

FedTec's Response to RFP # 2025-023



Submitted To

**North Central Texas Council of
Governments (NCTCOG)**

**TXShare Cooperative
Purchasing Program**

**Artificial Intelligence (AI)
Consultancy Services**

**Due Date: Jan 13, 2025
Time: 02:00 PM CDT**

Submitted By

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1. Certificate of Offeror and Statement of Understanding

TXShare

Your Public Sector Solutions Center

REQUEST FOR PROPOSALS
For
Artificial Intelligence (AI) Consultancy Services
RFP # 2025-023

Sealed proposals will be accepted until 2:00 PM CT, **December 18, 2024**, and then publicly opened and read aloud thereafter.

FedTec, LLC

Legal Name of Proposing Firm

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Director-SLED

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Title

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Acknowledgment of Addenda (initial): #1 1 #2 _____ #3 _____ #4 _____ #5 _____

NOTE: Any confidential/proprietary information must be clearly labeled as "confidential/proprietary". All proposals are subject to the Texas Public Information Act.

COVER SHEET

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Statement of Understanding

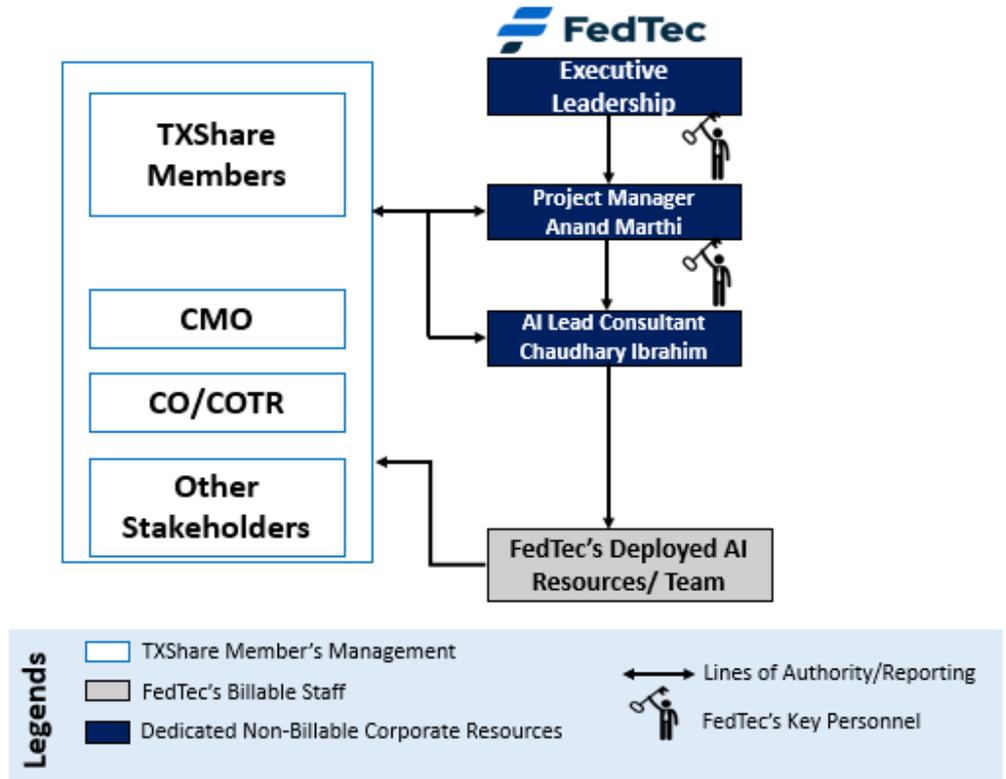
With over **23 years of experience** FedTec understands the objectives of **RFP #2025-023 for Artificial Intelligence (AI) Consultancy Services**, which seeks to enhance **operational efficiency, foster innovation, and ensure ethical AI adoption for TXShare Cooperative Purchasing Program members**. The scope includes delivering **tailored AI strategies, implementation roadmaps, and pilot projects while addressing data governance, privacy, and compliance**. Having catered to multiple clients with our experience, FedTec is well-equipped to assess **organizational needs, identify impactful use cases, and provide scalable, secure, and ethical AI solutions**. **FedTec's experience, team of AI experts & collaborative approach** ensures alignment with public sector priorities and delivers measurable outcomes for participating entities.

2. Key Personnel

To ensure personalized attention and tailored solutions FedTec will assign a dedicated project management team. FedTec will assign a dedicated **Client Engagement and Delivery Office** to exclusively cater to needs of TXShare members.

The organizational chart provided exhibits how *FedTec's Project Management team* would effectively provide services to TXShare members. Our approach ensures clear communication channels and streamlined processes, with dedicated roles for each team member to handle various aspects of AI project management. The Project Manager, dedicated to NCTCOG and TXShare members, will serve as the central point of contact, ensuring effective communication,

overseeing resource allocation, and maintaining quality control across all deliverables. Below are the resumes of Key Personnel assigned to this contract:



Anand Marthi/ Project Manager (PMP Certified)

Anand Marthi is a seasoned **Project Manager** with over **30 years of experience** delivering high-impact solutions for government and public sector clients. Recognized for his leadership in **AI consultancy services, data privacy and security, and strategic project management**, Anand has consistently driven success across complex initiatives. His expertise lies in aligning project goals with organizational priorities, fostering cross-functional collaboration, and ensuring compliance with stringent public sector regulations such as GDPR and NIST. Throughout his career, Anand has been instrumental in leading projects that integrate **artificial intelligence, cybersecurity frameworks, and data-driven solutions** to optimize public sector operations. His work includes crafting AI strategies, conducting feasibility studies, and managing the implementation of **advanced AI tools** to enhance **decision-making, operational efficiency, and resource allocation** for government agencies. Anand excels at stakeholder engagement, developing comprehensive project roadmaps, and overseeing end-to-end project delivery. He has also played a pivotal role in facilitating knowledge transfer and training programs, enabling clients to sustain and scale implemented solutions. His ability to integrate compliance, ethical AI practices, and robust governance frameworks ensures that all projects meet public sector standards and deliver measurable outcomes.

Education & Certifications

M.B.A. from City University of Seattle, Washington, US	Pega Certified Business Architect
Bachelor of Science in Computer Technology	Certified Scrum Master (CSM) & ITIL 4
Certified Project Management Professional (PMP) from PMI	Certified Cloud Practitioner, Amazon Web Services (AWS)

Experience

- FedTec, LLC — Project Manager**
January 2022 – Present
- Spearheaded the delivery of strategic IT/AI and public & private sector projects, ensuring alignment with client goals.
 - Developed and implemented data governance frameworks to meet compliance requirements.
 - Led multi-disciplinary teams, fostering collaboration and meeting deliverables within timelines and budgets.
 - Conducted risk assessments and devised mitigation strategies to ensure smooth project execution.
 - Prepared comprehensive project documentation, including progress reports, compliance audits, and stakeholder communications.
 - Oversaw training and knowledge transfer to client teams, ensuring sustainable project outcomes.

Key Projects:
Skytech Consultancy Services

Project: AI-Driven ERP Enhancement for Public Sector Clients

FedTec was engaged by Skytech Consultancy Services to support their government client contracts in enhancing ERP systems with AI capabilities.

- Directed the identification of AI-driven enhancements for ERP systems to optimize operations, including predictive analytics for procurement and financial forecasting.
- Facilitated workshops with stakeholders from government agencies to identify specific use cases for AI integration across financial, procurement, and HR systems.
- Oversaw the development of AI-powered data models, ensuring compliance with public sector data privacy regulations such as GDPR and NIST.
- Established governance frameworks to monitor and evaluate the impact of AI-driven improvements on organizational efficiency.
- Delivered post-implementation knowledge transfer sessions, enabling internal government teams to manage AI-driven ERP functionalities independently.

New Generation LLC

Project: AI-Powered Predictive Analytics for Public Transportation

FedTec was contracted by New Generation LLC to deliver AI consultancy services for their government client, focusing on public transportation optimization.

- Led the development of an AI strategy to optimize transportation scheduling and resource allocation for government transit agencies.
- Conducted a feasibility study to assess the potential impact of AI use cases, including ridership prediction, maintenance forecasting, and fuel optimization.
- Oversaw the implementation of machine learning algorithms, collaborating with technical teams to ensure model accuracy and alignment with project objectives.
- Directed the integration of robust data governance measures to maintain data quality and privacy compliance.
- Delivered training sessions for government stakeholders, equipping them with tools and knowledge to interpret AI-driven insights and maintain systems long-term.

Prudent Technology LLC

Project: AI-Based Cybersecurity Enhancement for Government IT Systems

FedTec was engaged by Prudent Technology LLC to implement AI-enabled cybersecurity solutions for their government client contracts.

- Developed an AI-driven cybersecurity strategy to proactively detect and mitigate threats across municipal IT systems.
- Directed the deployment of AI-enabled monitoring tools, such as anomaly detection systems, to identify and respond to potential breaches in real-time.
- Ensured all AI models were aligned with ethical standards and integrated compliance measures based on NIST and ISO frameworks.
- Facilitated workshops with municipal IT staff to train them on the use and maintenance of AI-powered cybersecurity tools.
- Presented regular updates to municipal leadership, showcasing the effectiveness of AI-driven tools in reducing security risks and improving response times.

Chaudhry Ibrahim/ AI Lead Consultant

Visionary and results-oriented **AI Lead Consultant** with over 20 years of experience driving innovation through artificial intelligence, machine learning, and data-driven solutions across public and private sectors. Renowned for bridging complex technological concepts with strategic business goals, Chaudhry excels in delivering tailored AI frameworks that enhance operational efficiency, foster innovation, and ensure regulatory compliance. Demonstrated success in leading cross-functional teams to deploy cutting-edge *AI technologies, including generative AI, natural language processing, and predictive analytics*. Adept at *developing strategic AI roadmaps, conducting feasibility studies, and driving end-to-end implementations*. Skilled in navigating the unique challenges of public sector engagements, including ethical AI deployment, data privacy, and scalable governance frameworks. Hands-on experience with advanced AI tools (e.g., **AWS Bedrock, TensorFlow, and Azure AI**) and frameworks for machine learning, data engineering, and natural language processing. Skilled in managing cross-functional teams, engaging stakeholders, and driving organizational transformation through AI adoption.

Education & Certifications

- Bachelor of Science (BSc), Computer Science, University of Punjab
- Certified TOGAF Architect
- Certified AWS Architect Associate (Expired)
- Salesforce Certified Developer
- Salesforce Certified Admin
- ServiceNow Certified Developer

- Microsoft Azure Certified Admin
- Microsoft Azure Certified Architect

Experience

FedTec, LLC — AI Lead Consultant

January 2020 – Present

Spearheads AI-driven transformation initiatives, delivering strategic consultancy services to enhance operational efficiency and decision-making for public sector and enterprise clients. Collaborates with cross-functional teams to design, implement, and sustain cutting-edge AI solutions tailored to client needs.

Key Projects:

Skytech Consultancy Services

Project: AI-Driven ERP Enhancement for Public Sector Clients

- Collaborated with Skytech Consultancy Services to integrate advanced AI capabilities into ERP systems for government clients.
- Developed AI-powered modules for process automation, predictive analytics, and anomaly detection, enhancing efficiency and reducing operational costs.
- Delivered a strategic roadmap for integrating AI within existing ERP infrastructure, ensuring scalability and compliance with public sector regulations.

New Generation LLC

Project: AI-Powered Predictive Analytics for Public Transportation

- Partnered with New Generation LLC to deliver AI consultancy services for optimizing public transportation systems.
- Implemented predictive analytics models to forecast transportation demand, streamline scheduling, and improve resource allocation.
- Facilitated stakeholder workshops to ensure alignment on AI-driven strategies, resulting in enhanced operational performance and passenger satisfaction.

Prudent Technology LLC

Project: AI-Based Cybersecurity Enhancement for Government IT Systems

- Engaged by Prudent Technology LLC to design and deploy AI-enabled cybersecurity solutions for government IT systems.
- Implemented machine learning algorithms for real-time threat detection, vulnerability assessments, and automated incident response.
- Developed a compliance-focused framework to align AI cybersecurity solutions with government policies and data protection standards.

Additional Resources for Surge/ Emergency Support

FedTec brings over **450 skilled in-house resources** and a robust active resource pool to deliver scalable and high-quality AI consultancy services tailored to NCTCOG’s/ member’s needs. Our in-house team includes an **AI Strategy Lead to oversee framework development, Data Governance Specialists to ensure data quality and compliance, Machine Learning Engineers** to develop and optimize AI models, and an **Ethics and Compliance Manager** to ensure ethical and regulatory adherence. The following key individuals are part of FedTec’s **Additional Resources for Surge/Emergency**

Name	Title	Brief Description
Yasir Chaudhry	AI Strategy and Implementation Lead	IT & Strategy Consultant with 14+ years in AI and digital transformation, specializing in AI engineering, product lifecycle management, and large-scale digital initiatives. Expert in AI strategy, machine learning, conversational AI, and compliance management.
Johanna Ciaramella	Ethics and Compliance Manager	Ethics and compliance professional with 10+ years of experience ensuring adherence to federal and state laws. Expertise in regulatory compliance, policy development, and fostering organizational ethical standards.
Albert Feliu	Technical Project Manager	Technical Project Manager with a decade of expertise in managing IT and infrastructure projects, including cloud migrations, system integrations, and enterprise project delivery. Known for process optimization and compliance adherence.
Vishnugupthaa Ramidi	Data Science and Machine Learning Specialist	Data Science and Machine Learning expert with 10+ years of experience in predictive modeling, big data analytics, and cloud platforms. Skilled in developing scalable data pipelines, implementing ML models, and delivering actionable insights.

3. References

Reference#1

Organizations Name	Skytech Consultancy Services
Contact Person	Yash Gupta
Phone No.	804-933-3900
Email	yashg@skytechconsultancy.com
Description	FedTec delivered advanced AI solutions for SkyTech's government clients, addressing their unique requirements with innovative and scalable technologies.

Reference#2

Organizations Name	New Generation LLC
Contact Person	Jacob Weaver
Phone No.	571-233-6691
Email	jacobw@newgenerationsol.com
Description	FedTec was engaged as a contractor to provide AI consultants, supporting New Generation's ongoing contracts with public sector clients by delivering expert AI solutions tailored to their specific needs.

Reference#3

Organizations Name	Prudent Technology LLC
Contact Person	Sumaya Arevalo
Phone No.	703-327-6432
Email	sumaya@prudenttechnology.com
Description	Prudent engaged FedTec and its team of AI professionals to meet the diverse and complex requirements of its multiple government clients, delivering tailored AI solutions aligned with their operational and compliance needs.

Reference#4

Organizations Name	NeevSys, Inc
Contact Person	Shainam Patel
Phone No.	703-618-6262
Email	shainan@neevsys.com
Description	A dedicated team comprising a Project Manager and AI Engineers was assigned to the AI consultancy contract for NeevSys, Inc. Our team specialized in addressing the Retrieval Augmented Generation (RAG) requirements, ensuring tailored solutions and successful implementation.

4. Project-Related Experience and Qualifications

FedTec is a leading provider of advanced *AI consultancy services* with a strong track record in delivering innovative and impactful solutions for public sector clients, including local government entities. With over 23 years of experience, our expertise spans cutting-edge AI technologies such as *machine learning, natural language processing (NLP), and predictive analytics*. Our deep understanding of public sector compliance, ethical standards, and regulations ensures that our solutions align with legal requirements while delivering measurable outcomes.

FedTec's AI Capabilities

FedTec is a recognized leader in delivering advanced AI solutions, leveraging state-of-the-art technologies to address complex challenges across various industries, with a particular focus on the public sector. Our expertise spans a wide array of *AI technologies, methodologies, and tools, making us uniquely positioned to meet the dynamic needs of local government entities and similar organizations.*

- **Machine Learning Expertise:** FedTec employs advanced machine learning techniques, including supervised, unsupervised, and reinforcement learning, to build predictive models for tasks such as demand forecasting and anomaly detection. We also utilize deep learning for image recognition and fraud prevention and AutoML frameworks for rapid model deployment.
- **Natural Language Processing (NLP) Expertise:** Our NLP capabilities include text analytics, conversational AI, speech recognition, and sentiment analysis. We develop AI-driven chatbots and virtual assistants to enhance citizen engagement and automate services while ensuring accessibility and compliance with public sector regulations.
- **Predictive Analytics and Advanced Techniques:** FedTec uses predictive analytics to anticipate trends, optimize resource allocation, and enhance public safety. Techniques like *time series analysis, anomaly detection, and computer vision* are employed to support efficient management of public assets and improve decision-making.
- **Custom AI Frameworks and Tools:** We develop proprietary AI frameworks that integrate seamlessly with enterprise systems like ERP and CRM. Our tools include automated data pipelines, explainable AI (XAI) for transparency, and scalable architectures to ensure reliability and trustworthiness in AI applications.
- **Cloud and Edge AI Implementation:** FedTec utilizes cloud-native platforms like AWS, Azure, and Google Cloud for scalable AI deployments and edge AI technologies for real-time processing in IoT and Smart City initiatives, ensuring high availability and efficient data management.
- **AI Development Methodology:** Our methodology includes identifying specific use cases, developing robust models, deploying solutions seamlessly, and continuously optimizing performance. This ensures that our solutions are tailored to client needs and deliver measurable outcomes.
- **Public Sector Applications:** FedTec has a proven track record in the public sector, implementing AI-powered chatbots for citizen engagement, predictive analytics for public safety, and computer vision for infrastructure management. These solutions align with regulatory requirements and drive impactful results.

Industry Experience in AI and Public Sector Implementations

FedTec has extensive experience in delivering impactful AI solutions across diverse industries, with a strong focus on the public sector. Our expertise is demonstrated through successful AI implementations that address complex challenges, streamline operations, and enhance decision-making for government agencies and local authorities.

- **AI-Driven ERP Enhancement for Public Sector Clients:** FedTec collaborated with Skytech Consultancy Services to integrate AI into ERP systems for government clients. This included process automation, predictive analytics, and anomaly detection, leading to greater efficiency and reduced operational costs.
- **AI-Powered Predictive Analytics for Public Transportation:** In partnership with New Generation LLC, FedTec developed AI models for optimizing public transportation systems. The solutions improved demand forecasting, resource allocation, and service delivery, enhancing passenger satisfaction.
- **AI-Based Cybersecurity for Government IT Systems:** Working with Prudent Technology LLC, FedTec implemented AI-driven cybersecurity measures, including machine learning for real-time threat detection and vulnerability assessments, significantly improving system security.
- **Generative AI for Document Automation:** FedTec developed a generative AI pipeline for automating RFP response templates using AWS services like Textract and Bedrock. This innovation streamlined document generation, improving accuracy and reducing turnaround time.
- **Digital Transformation for the Air Force:** FedTec supported the U.S. Air Force in adopting AI-driven strategies for process improvement and data analysis. The initiative included predictive analytics and app rationalization, enhancing operational readiness and decision-making.

Understanding of Public Sector Compliance and Ethical Standards

FedTec has a deep and comprehensive understanding of the compliance and ethical standards required for AI implementations in the public sector. Our solutions are meticulously designed to align with key regulatory frameworks, including the **General Data Protection Regulation (GDPR)** for safeguarding personal data, the **Freedom of Information Act (FOIA)** to ensure transparency, the **Americans with Disabilities Act (ADA)** for accessibility compliance, and the **Health Insurance Portability and Accountability Act (HIPAA)** for protecting sensitive healthcare information. These measures ensure that our AI systems operate responsibly and in full compliance with public sector obligations. FedTec prioritizes **ethical AI practices** to uphold public trust

and accountability. Our AI solutions incorporate Explainable AI (XAI) techniques to ensure transparency and reduce bias in decision-making. Rigorous fairness audits and bias assessments are conducted to deliver equitable outcomes while maintaining the integrity of the systems.

Portfolio of Successful AI Strategies and Implementations

FedTec is a trusted leader in delivering innovative AI solutions tailored to the unique needs of public and private sector clients. With a proven track record of *successful implementations across various government organizations, we specialize in leveraging advanced technologies such as machine learning, natural language processing, and predictive analytics to address complex challenges*. Our approach combines innovation with a understanding of public sector compliance and ethical standards, ensuring that all solutions align with regulatory requirements while driving measurable outcomes. Through collaborative partnerships and a commitment to excellence, FedTec consistently delivers scalable, future-ready AI systems that enhance operational efficiency, improve decision-making, and foster public trust.

Skytech Consultancy Services

Problem Statement: Skytech's government clients used outdated ERP systems that were inefficient and lacked the ability to adapt to modern public sector requirements. These systems relied heavily on manual processes, which led to operational delays and frequent errors.

Our Solution: FedTec integrated AI-driven features into the ERP framework, focusing on process automation, anomaly detection, predictive analytics, and Retrieval Augmented Generation (RAG) capabilities. The RAG component enhanced decision-making by enabling ERP users to query large, unstructured data repositories and retrieve precise, contextually relevant information in real-time. These upgrades streamlined workflows, improved knowledge accessibility, enhanced operational monitoring, and provided better-informed decision-making for government operations.

Result: Enhanced operational efficiency by 30%, significantly reduced manual processing errors, ensured scalability to adapt to future needs, and improved information retrieval accuracy by 40%. The solution met all compliance requirements, providing a future-proof ERP system for the public sector.

New Generation LLC

Problem Statement: Inefficiencies in demand forecasting and resource management hindered the performance of public transportation systems, causing scheduling delays and a decline in passenger satisfaction.

Our Solution: FedTec designed predictive analytics models to optimize scheduling and resource allocation based on demand forecasts. Additionally, Retrieval Augmented Generation (RAG) technology was incorporated to enable stakeholders to retrieve real-time transit data and historical patterns, improving their ability to make informed, data-driven decisions. Strategy workshops were conducted to align the AI-driven approaches with the expectations of government stakeholders.

Result: Resource allocation efficiency improved by 25%, scheduling errors were significantly reduced, and real-time retrieval accuracy improved decision-making processes by 35%. The project led to enhanced passenger satisfaction due to improved reliability and service quality.

Prudent Technology LLC

Problem Statement: Increasing cyber threats exposed vulnerabilities in government IT systems, highlighting the need for advanced security measures capable of real-time threat detection and automated response.

Our Solution: FedTec deployed machine learning models designed to detect cyber threats in real-time and automate vulnerability assessments. To further enhance capabilities, Retrieval Augmented Generation (RAG) was integrated into the system to enable IT teams to access detailed threat intelligence reports and security best practices rapidly. This combination provided a robust incident response system, supported by tools for continuous monitoring and compliance with public sector cybersecurity standards.

Result: Security breaches were reduced by 40%, and system resilience was strengthened to handle emerging threats. The integration of RAG improved the speed and accuracy of threat mitigation by 30%, offering a scalable framework for ongoing threat detection and compliance with cybersecurity regulations.

Other Similar Clients

AmeriCorps (ServiceNow)

Problem Statement: AmeriCorps faced challenges in managing a growing volume of service requests and ensuring efficient resolution through their existing ServiceNow platform. The manual ticketing system was time-intensive, and the lack of self-service options led to delays and reduced user satisfaction.

Our Solution: FedTec collaborated with AmeriCorps to build a comprehensive knowledge base within ServiceNow, incorporating Retrieval Augmented Generation (RAG) capabilities to streamline information retrieval. An AI chatbot was implemented to enable users to access self-service options by querying the knowledge base for immediate assistance. This solution reduced the dependency on manual ticket creation by addressing common issues through automated responses and providing actionable insights from historical data.

Result: The knowledge base captured over 80% of recurring service request types, significantly reducing manual ticket submissions. The AI chatbot improved response times by 50% and enhanced user satisfaction by offering real-time, accurate

solutions. This self-service model streamlined AmeriCorps’ operations and allowed staff to focus on resolving complex issues, ensuring better resource utilization and overall efficiency.

IRS – Automated Anomaly Detection

Problem Statement: The IRS faced challenges in identifying and addressing anomalies in taxpayer data, leading to inefficiencies and delays in issuing inquiries. The manual review process was time-consuming and prone to errors, which affected operational efficiency and taxpayer satisfaction.

Our Solution: FedTec implemented a Robotic Process Automation (RPA) system integrated with AI capabilities to automate anomaly detection in taxpayer data. The system leveraged advanced machine learning models to identify mismatches, such as discrepancies in taxpayer addresses, and generated inquiry letters automatically. Additionally, background processes were established to initiate public record checks, including address verification using county property tax records and publicly available credit reports. These integrated mechanisms ensured accurate and timely resolutions.

Result: The automated system reduced anomaly detection and resolution times by 60%, improved accuracy in identifying data discrepancies, and enhanced operational efficiency. The integration of AI and RPA minimized manual interventions, allowing IRS staff to focus on complex cases while ensuring taxpayer inquiries were addressed promptly and effectively.

City of Pittsburgh

Problem Statement: The City of Pittsburgh faced challenges in standardizing salary structures across various positions and ensuring accurate workload distribution within departments. The absence of a systematic approach to identify position requirements and track assigned work created inefficiencies and hindered decision-making.

Our Solution: FedTec provided a Retrieval Augmented Generation (RAG) model to help the City of Pittsburgh identify standard salary ranges for various positions by querying vast datasets, including historical records and industry benchmarks. Additionally, an AI-driven chatbot was implemented to identify positions required within each department and track the specific work assigned to individuals. The chatbot leveraged RAG capabilities to provide real-time insights and actionable recommendations for department heads.

Result: The RAG model improved the accuracy of salary standardization by 35%, ensuring competitive and equitable pay structures. The AI chatbot streamlined workforce planning, reducing position identification time by 40% and enabling better workload management. This solution enhanced operational efficiency and ensured alignment with organizational goals, fostering a transparent and data-driven approach to human resource management.

Organizational Background

Briefly outlines the respondent’s history, including years in business, key milestones, and areas of expertise.

FedTec is *women owned and minority owner business* and a leading provider of AI consultancy services, uniquely positioned to support the **North Central Texas Council of Governments (NCTCOG)** and its members of the **TXShare Cooperative Purchasing Program (TXShare)** in their mission to harness the power of Artificial Intelligence (AI). With a proven track record of delivering innovative, compliant, and impactful AI solutions,



FedTec's Presence in over 40+ States

FedTec is committed to enhancing **operational efficiency**, **improving decision-making**, **elevating service delivery**, and **fostering innovation** for public sector organizations (clients similar to TXShare members)

FedTec is a qualified AI consultancy firm, appraised at **ISO 20000-1:2011**, **ISO 9001:2015**, **ISO 27001:2013**, and **CMMI Level 3 certified**, ensuring adherence to the highest standards of quality, security, and service delivery. Our services integrate frameworks like **ITIL (Information Technology Infrastructure Library)** and **PMI’s PMBoK (Project Management Body of Knowledge)** to deliver robust and scalable AI solutions. FedTec’s AI consultancy ensures compliance with the standards/laws including but not limited to:

✓ GDPR - General Data Protection Regulation	✓ NIST AI Risk Management Framework
✓ CCPA - California Consumer Privacy Act	✓ UNESCO AI Ethics Guidelines
✓ HIPAA - Health Insurance Portability and Accountability Act	✓ Personal Data Protection
✓ COPPA-Children’s Online Privacy Protection Act	✓ OECD Principles on AI
✓ Ethics Guidelines for Trustworthy AI (EU)	✓ EU AI Act

Our approach aligns seamlessly with the goals outlined in the RFP, combining deep *technical expertise with a thorough understanding of public sector needs*.

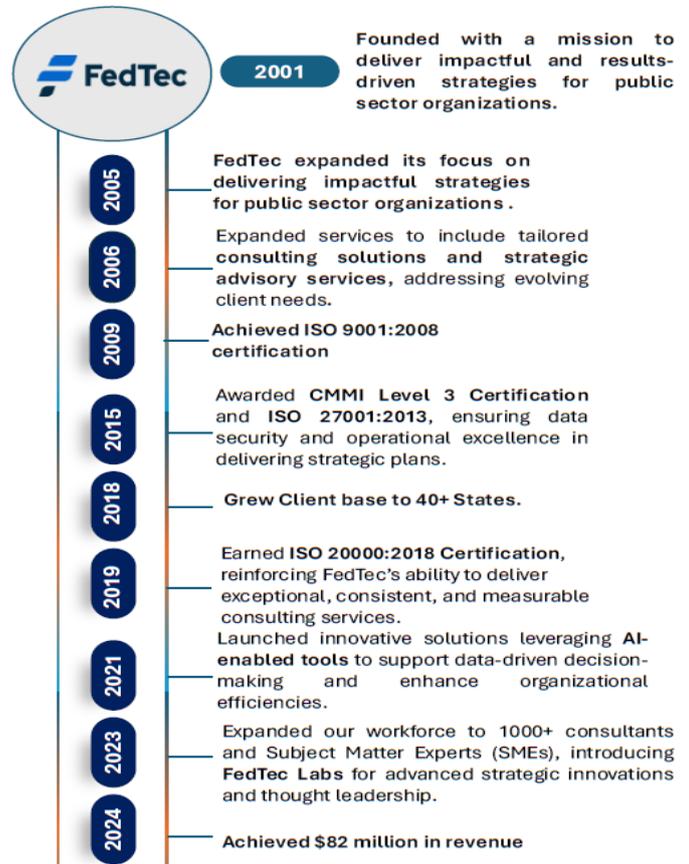
Through our commercial partnerships, FedTec has collaborated extensively with multiple government agencies, leveraging its deep expertise in the AI domain to address complex challenges and drive innovation. These engagements have involved designing and implementing **AI-driven solutions** tailored to the unique needs of public sector entities. FedTec’s role has encompassed

strategic planning, data integration, and the deployment of advanced AI technologies, such as machine learning models, predictive analytics, and natural language processing (NLP) tools.

By working closely with these agencies, FedTec has gained a comprehensive understanding of public sector requirements, including regulatory compliance, data privacy, and ethical standards. Our AI-focused teams, composed of highly skilled consultants, engineers, and data scientists, have consistently delivered results that enhance operational efficiency, improve decision-making, and foster innovation within government frameworks. This proven track record positions FedTec as a trusted partner in addressing the AI needs of government and public sector clients.

Our areas of expertise include artificial intelligence, machine learning, natural language processing, data governance, and cybersecurity. FedTec specializes in providing tailored AI solutions that enhance operational efficiency, improve decision-making, and ensure compliance with public sector standards. By combining technical excellence with a deep understanding of industry-specific challenges, FedTec has become a trusted partner for organizations seeking scalable, future-ready solutions.

Key Milestones: FedTec has consistently advanced its capabilities in artificial intelligence to deliver transformative solutions for public and private sector clients. In 2019, the company launched AI-enabled tools designed to support data-driven decision-making and enhance operational efficiencies. By 2021, FedTec had expanded its workforce to include over 1,000 consultants and Subject Matter Experts (SMEs) specializing in AI technologies such as machine learning, natural language processing, and predictive analytics. That same year, FedTec established FedTec Labs, a hub for AI research and innovation to develop cutting-edge strategies. In 2023, the company deployed advanced AI frameworks for public sector projects, including ERP enhancements, predictive analytics for transportation systems, and machine learning-driven cybersecurity solutions, all tailored to optimize government operations. Looking ahead, FedTec anticipates AI-driven solutions to play a significant role in achieving its projected \$120 million revenue milestone in 2025, further solidifying its position as a leader in AI-driven public sector innovation.



FedTec holds a diverse portfolio of contracts that are similar in nature to NCTCOG, some of our contracts are

Similar Contracts to NCTCOG	
TX DIR -Texas Department of Information Resources	State of Iowa
CMAS-California Multiple Award Schedules	State of Georgia Procurement Contracts
GSA-General Services Administration	State of Indiana
ITS81-Massachusetts IT Services Contract ITS81	State of Idaho
AXIA-AXIA (specific program or entity TBD)	Commonwealth of Virginia IT and Professional Services
SourceWell	State of Colorado
Covendis-Covendis Managed Services	Oregon -State of Oregon Procurement Contracts
CAI-Computer Aid, Inc.	Washington 8215ITPS (IT Professional Services)
TIPS-The Interlocal Purchasing System	MNSITE-Minnesota IT Services Enterprise (MNSITE)
	State of Kansas

Required Service Category	FedTec's Capability	Provided
AI Strategy Development	Developing customized AI strategies and roadmaps aligned with organizational objectives and goals.	Yes
Feasibility Studies and Use Case Identification	Assessing value and feasibility of AI use cases, conducting risk-benefit analyses, and ensuring compliance.	Yes

AI Solution Design and Roadmap	Designing tailored AI models, frameworks, and providing detailed implementation roadmaps with KPIs.	Yes
Pilot Testing and Implementation Support	Guiding pilot AI solution deployment, scaling, and integration into organizational workflows.	Yes
Training and Capacity Building	Conducting AI tools training, best practices workshops, and building internal AI expertise.	Yes
Data Strategy and Management	Ensuring data governance, privacy, quality, and security through advanced tools and frameworks.	Yes
Ethical AI Implementation	Adhering to ethical guidelines, mitigating bias, and ensuring fairness and transparency in AI solutions.	Yes
Compliance with Regulations	Aligning with federal, state, and local data privacy laws (e.g., GDPR) and internal organizational policies.	Yes

FedTec's Capabilities to Address Required Service Categories

- **AI Strategy Development:** FedTec's **AI Lead Consultant** and team design tailored AI strategies and roadmaps, leveraging extensive public sector experience and insights into government operations.
- **Feasibility Studies and Use Case Identification:** With the support of **FedTec Labs**, FedTec conducts in-depth feasibility analyses, identifying high-value AI use cases and prioritizing them based on impact and scalability.
- **AI Solution Design and Roadmap:** The team utilizes advanced tools like **TensorFlow**, **PyTorch**, and **AWS SageMaker** to design AI models and frameworks, delivering detailed roadmaps with defined KPIs, governance structures, and milestones.
- **Pilot Testing and Implementation Support:** FedTec's team of **AI engineers**, **Project Managers**, and **Data Scientists** guide pilot deployments, validate solutions, and ensure scalable implementation across departments. Solutions are supported by advanced testing environments in **FedTec Labs**.
- **Training and Capacity Building:** FedTec provides hands-on training, workshops, and knowledge transfer programs led by experienced professionals, ensuring internal teams independently manage and expand AI systems.
- **Data Strategy and Management:** Expertise in data governance, privacy, and security ensures data integrity and compliance. Tools like **Collibra** and **OneTrust** are used to manage data quality, lineage, and protection.
- **Ethical AI Implementation:** The team integrates fairness and bias mitigation measures using tools like **Fairlearn** and **AI Fairness 360**, adhering to ethical standards and promoting transparency with **Explainable AI (XAI)** tools such as SHAP and LIME.
- **Compliance with Regulations:** FedTec ensures adherence to **GDPR**, **FOIA**, and other local data privacy laws, leveraging over **15 years of public sector experience** to design compliant AI solutions tailored to government needs.

Team and Experience

- **FedTec Labs:** Advanced innovation hub supporting AI model development, testing, and validation.
- **Experienced Team:** FedTec's team includes **AI Lead Consultants**, **Project Managers**, and technical experts with decades of combined experience in government and public sector projects.
- **Proven Track Record:** Over **15 years** of delivering AI and IT solutions for government clients, with successful projects in healthcare, public transportation, cybersecurity, and citizen engagement.

Statement of Unmet Scope Requirements

FedTec has reviewed the *Scope of Work* and confirms that there are **no unmet requirements**. We are fully equipped to deliver all aspects of the project as outlined.

Subcontractor/ Agency

FedTec is not utilizing subcontractors for this opportunity. We will engage and hire individuals from HUB-certified demographics, including minority and women-owned businesses, as per the Task Order requirements.

5. Technical Proposal

5.1 Objectives:

The objectives of the AI consultancy services include, but are not limited to:

a. Assessing current organizational processes and identifying opportunities for AI integration, with specific examples relevant to various departments (e.g., public safety response optimization, citizen engagement tools, predictive maintenance in infrastructure).

Organizations today face increasing pressure to optimize operations, improve service delivery, and meet public expectations while ensuring resource efficiency. AI-driven solutions, when effectively implemented, address these challenges by automating processes, providing predictive insights, and enabling proactive decision-making.

FedTec's approach to **assessing current organizational processes** begins with a thorough evaluation of existing workflows, technologies, and operational challenges. By leveraging advanced analytical methodologies, we identify areas where **AI integration** delivers significant value. For instance, in **public safety**, AI solutions such as predictive analytics optimizes **resource allocation, enabling faster emergency response times and improving situational awareness**. Using **historical data and machine learning models** we predict high-risk areas, allowing agencies to preemptively deploy resources and enhance public safety outcomes.

In **citizen engagement**, FedTec proposes the use of tools like **natural language processing (NLP)** for chatbots and virtual assistants. These systems facilitate seamless interaction between citizens and government services, providing quick, accurate responses to inquiries while reducing the workload on human staff. Sentiment analysis tools further enable organizations to gauge public sentiment, helping to shape policies and initiatives that resonate with community needs. For **infrastructure management**, FedTec identifies opportunities for deploying **predictive maintenance solutions**. By analyzing real-time data from IoT sensors and historical maintenance logs, AI algorithms forecast equipment failures, enabling timely interventions that minimize downtime and reduce maintenance costs. These strategies not only enhance operational efficiency but also extend the lifespan of critical assets.

- ❖ *AI solutions optimize operations and improve service delivery.*
- ❖ *Evaluates workflows to identify AI integration opportunities.*
- ❖ *Predictive analytics enhance public safety and resource allocation.*
- ❖ *NLP chatbots improve citizen engagement and reduce staff workload.*
- ❖ *Sentiment analysis shapes community-focused policies.*
- ❖ *Predictive maintenance reduces downtime and extends asset lifespan.*
- ❖ *Proactive AI tools enable efficient, data-driven decisions.*

b. Recommending AI tools, frameworks, and applications to solve specific organizational challenges.

FedTec specializes in **recommending AI tools, frameworks, and applications** that are tailored to solve specific organizational challenges with precision and scalability. Our approach begins with a detailed analysis of the operational needs and objectives, ensuring that the recommended solutions align with the strategic vision of the organization. For instance, in environments requiring enhanced decision-making, **machine learning frameworks** such as **TensorFlow and PyTorch** are ideal for developing predictive models to analyze trends and forecast outcomes. In addition, analytics and visualizations tools like Microsoft PowerBI or Tableau provides predictive analysis capabilities on aggregated data sets.

For challenges in **public safety**, FedTec recommends tools like **AI enabled incident response platforms** that leverage **real-time data and advanced analytics** to improve situational awareness and optimize emergency resource allocation. In the area of **citizen engagement**, **natural language processing (NLP)** applications such as **OpenAI's GPT models or Google Dialogflow** are utilized to create conversational agents, enabling efficient and personalized communication with citizens.

In **infrastructure management**, FedTec proposes the deployment of **predictive maintenance applications** using platforms like **IBM Maximo or Azure IoT**. The data from these tools can be aggregated in a **Data lake** and then **MS PowerBI** can be used to **predict equipment failures and schedule proactive maintenance, reducing costs and operational disruptions**. For developing AI algorithms and model development, FedTec recommends **cloud-based AI platforms** like **AWS SageMaker and Microsoft Azure AI Hub**, which offer scalable and secure environments for developing, testing, and deploying AI models.

- ❖ *Tailored AI tools align with organizational goals.*
- ❖ *Machine learning enhances predictive decision-making.*
- ❖ *AI improves public safety, citizen engagement, and maintenance.*
- ❖ *Scalable platforms ensure security and compliance.*
- ❖ *Comprehensive roadmaps enable seamless integration.*

c. Developing a comprehensive data strategy alongside an AI roadmap, emphasizing data quality, governance, privacy, and security.

FedTec delivers transformative **AI solutions** through a **comprehensive data strategy** aligned with a phased **AI roadmap**. This approach ensures a **robust data foundation** emphasizing **quality, governance, privacy, and security**, enabling organizations to maximize **data value** while maintaining compliance with **GDPR, HIPAA, CCPA and other federal and state regulations**

FedTec enhances **data quality** using advanced **cleansing** and **validation tools** while developing **data processing pipelines** to ensure AI models are trained on **accurate, consistent datasets**, leading to improved **decision-making** and reduced **errors**. **Governance frameworks**, including **role-based access controls** and **audit trails**, establish **accountability** and **transparency**. **Privacy-by-design** principles are implemented using techniques such as **data anonymization**, **encryption**, and **secure multi-party computation**. **Cybersecurity measures**, including **threat detection systems** and **incident response plans**, further safeguard **data integrity**.

The **AI roadmap** identifies **high-impact use cases**, selects **scalable frameworks** (e.g., **TensorFlow**, **PyTorch**), and defines **milestones** for **implementation** and **performance tracking**. Practical applications, such as **predictive analytics** and **fraud detection**, demonstrate the roadmap's value in transitioning organizations from **pilot projects** to **enterprise-wide AI adoption**. This integrated strategy empowers organizations to **innovate securely** and **sustainably**.

d. Developing a strategic roadmap for AI implementation, including governance, timelines, milestones, and deliverables.

FedTec's approach to developing a **strategic roadmap for AI implementation** ensures that organizations have a structured, actionable plan to achieve their AI objectives. Our roadmap is designed to align with organizational goals while emphasizing **governance, clear timelines, milestones, and deliverables** to drive accountability and success.

The **governance framework** forms the foundation of the roadmap, establishing roles, responsibilities, and decision-making protocols for AI implementation. FedTec collaborates with stakeholders to define a governance structure that includes executive oversight, data stewards, and cross-functional AI teams. **Timelines** are *strategically planned, detailing each phase of the AI journey, from initial assessment to deployment and optimization*. FedTec divides the implementation into key phases—*discovery, pilot, deployment, and scale-up*—assigning realistic timeframes to each step to ensure progress without compromising quality.

- **Milestones** serve as **critical checkpoints** to measure progress and validate outcomes. Examples include completing an initial data readiness assessment, finalizing AI tool selection, conducting pilot tests, and achieving system integration. These milestones are linked to key performance indicators (KPIs), providing measurable benchmarks for success.
- **Deliverables** are clearly outlined, ensuring transparency and accountability throughout the implementation. These include deliverables such as a detailed AI capability assessment report, fully functional AI prototypes, user training programs, and post-implementation performance evaluations. Each deliverable is designed to provide tangible value and contribute to the overall objectives of the AI initiative.

e. Ensuring that all AI implementations comply with legal standards (e.g., FOIA, grant/state/federal regulations) and establish technical, administrative, and policy controls for internal AI use.

FedTec ensures that all **AI implementations** comply with legal standards, including the **Freedom of Information Act (FOIA)**, **grant-specific, state, and federal regulations**. Our approach integrates **technical, administrative, and policy controls** to guarantee the **responsible and ethical use** of AI technologies.

Key Compliance Measures:

1. **Legal and Regulatory Assessment:** FedTec conducts thorough evaluations of **FOIA, GDPR, CCPA, HIPAA**, and grant-specific regulations. Systems are designed to incorporate **transparency features** like **audit logs** and **explainability modules** to meet legal mandates and ensure accountability.
2. **Technical Controls:**
 - **Encryption** and **Role-Based Access Control (RBAC)** to safeguard sensitive data.
 - **Bias detection and mitigation mechanisms** to ensure fairness in AI decisions.
 - Continuous **compliance testing** throughout the AI lifecycle to validate adherence to standards and minimize risks.
3. **Administrative Controls:**
 - Governance committees to oversee AI usage and compliance.
 - Specialized **training programs** for stakeholders on **ethical and legal AI use**.
 - Defined roles, responsibilities, and **reporting protocols** for swift issue escalation and resolution.
4. **Policy Controls:**
 - Formalized **AI use policies**, including guidelines on **data usage, ethical principles, and incident response plans**.
 - Regular **compliance reviews** to adapt to evolving regulatory and technological landscapes.

Responsibilities of Compliance Manager
<ul style="list-style-type: none"> ❖ <i>Developing proactive strategies for AI governance and regulatory adherence.</i> ❖ <i>Leading the integration of compliance frameworks into AI systems to mitigate risks while fostering innovation.</i> ❖ <i>Ensuring organizations leverage AI responsibly, enhancing trust, accountability, and operational integrity.</i>

f. Providing training and knowledge transfer to the organization's internal teams on AI capabilities, ensuring employees effectively adopt and utilize AI tools.

FedTec ensures organizations effectively adopt and utilize **AI tools** by offering tailored **training** and **knowledge transfer programs**. For **TXShare members**, a dedicated **Training Specialist** will be appointed to oversee the process, providing personalized support to align with organizational goals and member-specific needs.

Key Program Components:

- **Customized Training Plans:** Modules are designed to address the organization's specific **AI tools, use cases, and business objectives**, with role-specific training for **technical teams, business users, and leadership**.
- **Hands-On Learning:** Practical **workshops, interactive demonstrations, and scenario-based exercises** ensure teams can apply AI tools effectively to solve real-world challenges.
- **Knowledge Transfer Framework:** Comprehensive **user guides, process workflows, and best practices** are provided. FedTec's **AI experts** collaborate with teams during the implementation phase for smooth transitions.
- **Ongoing Support and Upskilling:** Regular **refresher courses, advanced training sessions, and access to e-learning platforms** keep employees updated on **AI advancements**.
- **Performance Metrics and Feedback:** Training effectiveness is evaluated using **pre- and post-training assessments**, with feedback loops to refine content and address knowledge gaps.

g. Quantify the long-term value AI brings to the organization and create business cases for both immediate and future expenditures, supporting sustained AI investment and adoption.

FedTec assists organizations in quantifying the **long-term value of AI** by showcasing its ability to drive **efficiency, productivity, and informed decision-making**. By developing **comprehensive business cases**, we ensure that both immediate and future **AI expenditures** are justified, supporting sustained investment and adoption.

- **Key Components of Value Quantification:** FedTec's **data-driven ROI analysis** highlights the measurable benefits of AI, such as **cost reductions, process automation, and revenue generation**. Metrics like **time saved, error reduction, and increased throughput** are utilized to demonstrate the impact on operational and financial performance. Additionally, **predictive models** are employed to forecast long-term gains, including **scalability, enhanced customer experiences, and improved market competitiveness**, enabling organizations to plan for sustainable growth. To encourage initial adoption, we emphasize **immediate value**, showcasing **quick wins** such as reduced manual processes through **automation** and better decision-making via **predictive analytics**.
- **Business Case Development:** FedTec's business cases combine both **tangible and intangible benefits** to present a comprehensive value proposition. Tangible benefits include **cost savings, productivity enhancements, and operational efficiencies**, while intangible benefits, such as increased **employee satisfaction and customer trust**, provide a holistic perspective. A detailed **cost breakdown** is included, covering **software, hardware, and training expenses**, along with projected timelines for realizing **ROI**. Additionally, FedTec incorporates **risk mitigation strategies** into these cases, addressing challenges like **data bias, security concerns, and regulatory compliance** to ensure responsible AI adoption.

h. Supporting the pilot and/or full-scale implementations and providing comprehensive training for sustainable, in-house AI operations.

Successful AI implementation is not just about deploying technology; it requires sustainable integration into an organization's processes and a workforce capable of managing and leveraging it effectively. Supporting pilot and full-scale implementations with comprehensive training ensures AI solutions are not only adopted but also optimized for long-term success. **FedTec provides end-to-end support** for both **pilot and full-scale AI implementations**, ensuring seamless integration with existing infrastructure and equipping teams with the necessary tools and knowledge to manage AI systems sustainably. Key aspects of our approach include:

1. **Pilot Implementation Support**
 - Develop a roadmap to implement a use case with measurable business value
 - Identify measurable KPIs to evaluate the pilot's success.
 - Resolve technical and operational challenges to mitigate risks during the full-scale implementation.
2. **Full-Scale Implementation**
 - Design and enhance AI architectures tailored to organization's scalability requirements.
 - If applicable, Integrate AI systems with existing processes, ensuring interoperability.
 - Offer ongoing monitoring, fine tuning and operational support during the transition phase.
3. **Comprehensive Training Programs**
 - Develop customized training modules based on organizational roles and technical expertise.
 - Conduct workshops focusing on AI operations, troubleshooting, and optimization.

FedTec's Capabilities

- ❖ *Experience in delivering AI solutions across public and private sectors.*
- ❖ *Proficiency in leveraging AI frameworks, machine learning models, and automation tools.*
- ❖ *Strong track record in training multidisciplinary teams to adopt and manage AI technologies.*
- ❖ *Expertise in scaling AI implementations while minimizing operational disruptions.*

- Create detailed user guides, manuals, and video tutorials for future reference.
- Offer on-demand support post-training to reinforce knowledge retention.

4. Sustainable Operations Framework

- Establish governance and best practices for AI operations.
- Enable continuous learning through periodic training updates.
- Introduce feedback loops for iterative improvement of AI processes.

i. Incorporating a 5-year AI roadmap to guide the organization’s future AI development.

FedTec’s development of a **5-year AI roadmap** provides organizations with a structured and strategic plan to guide future AI development. Roadmaps are designed to align with organizational objectives, ensuring a phased and scalable approach to AI adoption that delivers measurable outcomes over time. It emphasizes sustainability, adaptability, and alignment with emerging technologies to keep the organization at the forefront of innovation.

Stakeholder Collaboration and Needs Assessment:

By collaborating with stakeholders, FedTec identifies high-impact AI use cases and aligns them with priorities. Comprehensive assessments evaluate data readiness and operational challenges for seamless AI integration.

Phased AI Implementation Expertise: FedTec excels at phased AI implementation:

- **Years 1-2:** Pilot deployments and integration of predictive analytics, NLP, and automation tools.
- **Years 3-4:** Deployment of advanced models like deep learning and reinforcement learning, coupled with training for scalability.
- **Year 5:** Integration of technologies like generative AI and IoT, establishing a maturity model for autonomous systems.

Governance and Compliance: FedTec ensures ethical AI usage and compliance with GDPR, FOIA, ADA, and other regulations through governance frameworks, transparent reporting, and robust security measures.

Data Strategy and Management: FedTec enhances data quality with governance policies and scalable pipelines, leveraging tools like TensorFlow, PyTorch, and AWS SageMaker for optimal AI applications.

Continuous Training and Capacity Building: Custom training, workshops, and knowledge transfer programs ensure internal teams are equipped to manage AI systems effectively and sustainably.

Risk Mitigation and Performance Monitoring: FedTec incorporates risk mitigation strategies and continuous performance monitoring to refine AI systems and maintain alignment with organizational goals.

Scalable and Sustainable Solutions: FedTec delivers scalable solutions that evolve with technological advancements, fostering innovation and ensuring long-term adaptability.

With 23 years of experience, FedTec has successfully implemented AI solutions in public and private sectors, demonstrating expertise in predictive analytics, NLP, and advanced machine learning models.



5.2 Scope Of Work:

The selected AI consultancy firm will perform the following tasks:

5.2.1 AI Strategy Development

a. Collaborate closely with individual departments to identify specific AI use cases and associated challenges, such as improving response times in public safety or reducing procurement costs, to develop tailored solutions that align with departmental needs.

FedTec’s **AI strategy development process** emphasizes close collaboration with individual departments, led by **Anand Marthi**, FedTec’s dedicated **Account Manager**, to identify specific **AI use cases** and address their associated challenges. Anand’s proactive involvement ensures that tailored AI solutions are not only aligned with departmental needs but also strategically integrated into the organization’s broader objectives.

For **public safety departments**, Anand facilitates detailed discussions with stakeholders to understand pain points such as delayed response times, . In **procurement**, Anand works closely with department heads to identify opportunities for AI-driven cost reductions. Using machine learning algorithms to analyze supplier data, predict pricing trends, and streamline procurement workflows, FedTec provides tools that ensure cost-effective purchasing while maintaining quality and compliance.

Anand’s role is pivotal in maintaining a continuous feedback loop with departments, ensuring that AI solutions evolve alongside operational needs. His expertise in facilitating knowledge transfer, aligning resources, and ensuring adherence to timelines and objectives guarantees that AI implementations deliver maximum value. This personalized, **Account Manager-led approach** ensures that FedTec’s AI solutions are impactful, sustainable, and strategically aligned with the organization’s goals.

b. Conduct a comprehensive needs assessment to understand the organization’s goals, existing processes, challenges, and value to be added to the organization by leveraging AI.

FedTec, under the leadership of **Account Manager Anand Marthi**, conducts a **comprehensive needs assessment** as the cornerstone of its AI strategy development process. This assessment delves deeply into the organization’s **goals, existing processes, challenges**, and potential areas where **AI add measurable value**. By collaborating with stakeholders across departments, FedTec ensures that the assessment is both detailed and actionable.

The process begins with **goal alignment**, where Anand works closely with organizational leaders to identify strategic objectives, such as enhancing operational efficiency, improving service delivery, or driving innovation. This step ensures that all AI initiatives are designed to support long-term organizational priorities.

Next, FedTec evaluates **existing processes** to map workflows, identify inefficiencies, and assess data readiness. For example, in infrastructure maintenance, Anand’s team examines how predictive analytics reduce unplanned downtimes by forecasting equipment failures. Similarly, in citizen engagement, the assessment explores how conversational AI tools streamline interactions and improve satisfaction rates.

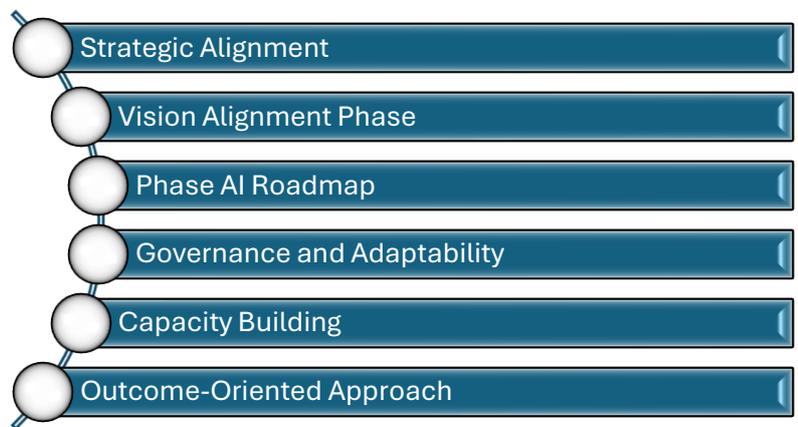
The needs assessment also identifies **challenges** that may hinder AI adoption, such as data silos, outdated technologies, or resistance to change. FedTec proposes tailored solutions to address these obstacles, such as implementing centralized data pipelines or conducting change management workshops to build stakeholder confidence.

Finally, the assessment focuses on **quantifying the value AI bring to the organization**. This includes identifying key performance indicators (KPIs) to measure success, such as cost savings from automated workflows, reduced response times in public safety, or improved decision-making accuracy through predictive analytics. Anand ensures that the insights from the needs assessment translate into a clear and actionable roadmap, enabling the organization to leverage AI effectively and sustainably.

c. Develop a long-term AI strategy aligned with the organization's strategic plan and 5-year vision.

FedTec, led by **Account Manager Anand Marthi**, develops a **long-term AI strategy** that aligns seamlessly with the organization’s **strategic plan and 5-year vision**. This comprehensive approach ensures that AI adoption is strategic, scalable, and sustainable, driving measurable improvements while keeping pace with evolving organizational goals and technological advancements.

The strategy begins with a **vision alignment phase**, where Anand collaborates with organizational leaders to map the strategic plan and 5-year vision to specific AI initiatives. This ensures that AI implementations address core priorities, such as improving operational efficiency, enhancing citizen services, and fostering innovation. By integrating AI into the broader organizational strategy, FedTec positions AI as a transformative enabler of success.



In the **planning phase**, FedTec designs a phased AI roadmap that identifies high-impact projects to be implemented over the next five years. The roadmap is structured to deliver early wins through pilot projects, such as predictive analytics in public safety or AI-driven procurement optimization, building confidence and momentum for further adoption. These early successes pave the way for scaling AI capabilities across the organization, including more complex applications like real-time data analytics, generative AI, or autonomous decision-making systems.

The strategy also incorporates **governance and adaptability**, ensuring that AI implementations are aligned with ethical standards, regulatory requirements, and organizational policies. Governance structures are established to monitor progress, evaluate performance, and ensure accountability. Anand works closely with stakeholders to integrate flexible frameworks that allow the AI strategy to adapt to emerging technologies and shifting priorities over the five-year horizon.

To support this vision, FedTec emphasizes **capacity building** through continuous training and knowledge transfer, ensuring the organization’s workforce is equipped to manage and expand AI capabilities independently. Regular performance assessments and feedback loops are integrated into the strategy to refine AI initiatives and ensure sustained alignment with the organization’s vision.

5.2.2 Feasibility Study and Use Case Identification

a. Identify potential AI use cases, analyze their feasibility, and assess value.

FedTec identifies AI use cases by analyzing current processes and aligning opportunities with **organizational goals**. Key examples include **predictive analytics** for optimizing **public safety response**, **AI-driven chatbots** to enhance **citizen engagement**, and **predictive maintenance** solutions for efficient **infrastructure management**. These use cases are chosen for their potential to improve **operational efficiency** and **service delivery**.

Each identified use case undergoes a detailed **feasibility analysis**, assessing **technical compatibility** with existing systems, **operational readiness** for AI adoption, and **financial feasibility**, including cost projections and **return on investment (ROI)**. This ensures that selected solutions are both practical and capable of delivering measurable **value**.

FedTec prioritizes use cases based on their **impact** on critical objectives, **scalability** across departments, and alignment with **stakeholder expectations**. This structured approach guarantees that AI initiatives not only address immediate needs but also provide **long-term benefits** and meaningful outcomes for the organization.

b. Document compliance requirements (external and internal).

FedTec ensures that all AI implementations adhere to both **external regulations** and **internal policies**, establishing a robust compliance framework. A dedicated **Project Manager**, in collaboration with an appointed **Compliance Manager**, will oversee compliance activities, ensuring alignment with legal and organizational standards throughout the project lifecycle.

External Compliance

FedTec integrates all relevant regulatory requirements to align with public sector legal standards, including:

- **General Data Protection Regulation (GDPR)**: Ensuring privacy and protection of personal data in AI systems.
- **Freedom of Information Act (FOIA)**: Facilitating transparency and accountability in AI-driven processes.
- **Americans with Disabilities Act (ADA)**: Developing accessible AI solutions, such as speech-to-text and text-to-speech functionalities.
- **State and Federal Regulations**: Addressing public sector mandates related to cybersecurity, data governance, and ethical AI deployment.

Internal Compliance

The **Project Manager** and **Compliance Manager** will ensure adherence to organizational governance and policies by:

- Establishing **data ownership frameworks** to define responsibilities and access controls.
- Implementing **data security protocols** to protect sensitive information and prevent unauthorized access.
- Ensuring adherence to **organizational ethics policies** by deploying bias-free and explainable AI models.
- Conducting **internal audits** to verify compliance with organizational standards and external regulations.

c. Provide detailed pros, cons, and risk-benefit analysis for each use case.

Use Case	Pros	Cons	Risk-Benefit Analysis
Skytech Consultancy Services	<ul style="list-style-type: none"> - Increased efficiency by 30%. - Enhanced decision-making with RAG. - Scalable ERP. 	<ul style="list-style-type: none"> - Requires significant training. - Possible data compatibility issues. 	<p>Risks: Integration delays, resistance to new workflows.</p> <p>Benefits: Sustainable cost savings, reduced errors, and better decisions.</p>
New Generation LLC	<ul style="list-style-type: none"> - Improved resource allocation (25%). - Reduced scheduling errors. - Enhanced satisfaction. 	<ul style="list-style-type: none"> - Data accuracy dependency. - Technical challenges in RAG integration. 	<p>Risks: Technical hurdles, resistance to changes.</p> <p>Benefits: Better utilization, reduced delays, and improved public satisfaction.</p>
Prudent Technology LLC	<ul style="list-style-type: none"> - Reduced breaches by 40%. - Faster threat mitigation with RAG. - Strengthened resilience. 	<ul style="list-style-type: none"> - High resource dependency. - Ongoing updates needed. 	<p>Risks: Deployment challenges, resource needs.</p> <p>Benefits: Stronger security, reduced disruptions, compliance assurance.</p>
AmeriCorps (ServiceNow)	<ul style="list-style-type: none"> - Ticket submissions reduced by 80%. - Faster response (50%). - Focus on complex issues. 	<ul style="list-style-type: none"> - Training required for user adaptation. - Chatbot limitations. 	<p>Risks: User resistance, chatbot limitations.</p> <p>Benefits: Significant efficiency and cost savings, enhanced user experience.</p>
IRS – Anomaly Detection	<ul style="list-style-type: none"> - Reduced detection time by 60%. - Improved accuracy. 	<ul style="list-style-type: none"> - Privacy concerns in public record checks. - Extensive testing needed. 	<p>Risks: Legal and privacy challenges.</p> <p>Benefits: Faster processing, fewer errors, better taxpayer service.</p>

	- Allowed staff to focus on complex cases.		
City of Pittsburgh	- Salary standardization improved by 35%. - Faster position identification (40%). - Better workload management.	- Dependence on data accuracy. - Resistance to new tools.	Risks: Training challenges, data inaccuracies. Benefits: Transparent HR decisions, efficient resource management, equitable pay structures.

d. Ensure feasibility study includes considerations related to data strategy, including data quality, governance, and integration readiness.

FedTec ensures that all feasibility studies incorporate a comprehensive evaluation of the **data strategy**, focusing on critical elements such as **data quality, governance, and integration readiness**. These considerations are essential for building robust, scalable, and compliant AI solutions.

Data Quality

FedTec evaluates the current state of organizational data to ensure it meets the requirements for AI implementation.

- **Assessment:** Analyze datasets for accuracy, consistency, and completeness to identify gaps or inconsistencies.
- **Data Cleaning and Enrichment:** Implement processes to enhance data quality, such as removing duplicates, filling gaps, and normalizing formats.
- **Monitoring:** Establish automated validation mechanisms to maintain high data quality throughout the project lifecycle.

Data Governance

A strong governance framework is crucial for managing data responsibly and ensuring compliance with regulatory standards.

- **Ownership and Accountability:** Clearly define roles and responsibilities for managing and maintaining data, including access controls and accountability mechanisms.
- **Policy Frameworks:** Develop governance policies for data collection, storage, usage, and sharing while ensuring alignment with regulations such as GDPR, FOIA, and ADA.
- **Security Measures:** Incorporate robust encryption, anonymization, and user access controls to safeguard sensitive data against breaches and unauthorized access.

Integration Readiness

Ensuring that AI solutions integrate seamlessly with existing systems is critical for their success.

- **System Compatibility:** Evaluate current IT infrastructure and identify potential gaps or challenges in integrating AI technologies.
- **Scalable Architecture:** Design scalable solutions to accommodate future data growth and evolving AI capabilities.
- **Data Interoperability:** Implement standardized data exchange protocols to enable seamless communication between legacy systems and new AI tools.

e. Prioritize use cases based on impact and ease of deployment.

FedTec prioritizes AI use cases using a structured framework that evaluates both **impact** and **ease of deployment**. This approach ensures that the most valuable and practical solutions are implemented first, aligning with organizational objectives and resource capabilities.

Impact Assessment

FedTec evaluates the potential impact of each use case by considering:

- **Alignment with Organizational Goals:** Prioritizing use cases that directly address critical objectives such as operational efficiency, improved public services, or enhanced citizen engagement.
- **Value Generation:** Focusing on solutions that deliver measurable outcomes, such as cost savings, improved response times, or enhanced infrastructure reliability.
- **Scalability:** Giving preference to use cases that be expanded across multiple departments or services for broader organizational benefits.

Ease of Deployment

To ensure practical implementation, use cases are assessed for deployment readiness:

- **Technical Feasibility:** Evaluating compatibility with existing IT systems and identifying potential gaps or challenges in integration.
- **Resource Availability:** Ensuring that the necessary skills, data, and infrastructure are readily accessible to support the deployment.
- **Implementation Complexity:** Prioritizing solutions that require minimal disruption to current operations and be implemented within a reasonable timeframe.

Prioritization Matrix

FedTec uses a prioritization matrix that maps each use case based on its **impact** (high, medium, low) and **ease of deployment** (easy, moderate, difficult). Use cases in the **high-impact, easy-to-deploy quadrant** are implemented first, followed by those with moderate deployment challenges and potential for significant impact.

5.2.3 AI Solution Design and Roadmap

a. Research and document various External Compliance (e.g. Freedom of Information Act, grant requirements, and the various local, state, and federal regulations), and Internal Compliance (e.g. designing technical, administrative, policy controls, among others, for the safe use of AI).

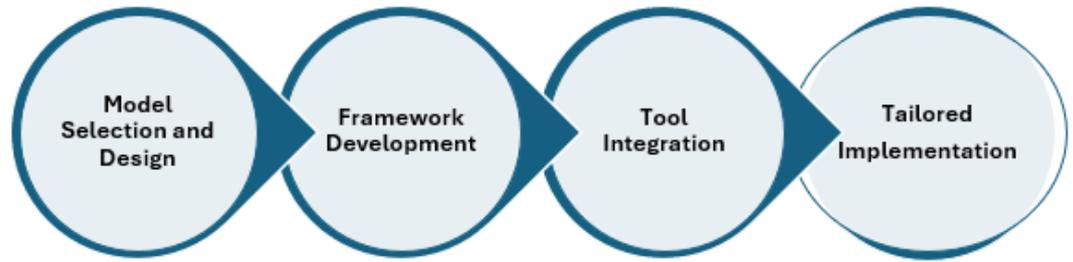
FedTec ensures a thorough understanding and adherence to both **external** and **internal compliance requirements** during the AI solution design phase. This ensures that all AI systems are implemented securely, ethically, and in alignment with organizational goals.

Compliance Type	Key Requirements	Examples of Controls/Measures
External Compliance		
Freedom of Information Act (FOIA)	Ensure transparency in AI operations and decision-making, with appropriate access to public information.	Implement robust logging and reporting mechanisms for decision-making processes.
Grant Requirements	Align AI implementations with funding conditions and ensure adherence to specified deliverables and compliance terms.	Develop detailed documentation and reporting frameworks to meet grant terms.
Local, State, and Federal Regulations	Address data privacy, cybersecurity, and ethical AI deployment standards as mandated by regulatory bodies.	Comply with state and federal laws, enforce data encryption, and conduct regular compliance audits.
General Data Protection Regulation (GDPR)	Protect personal data through privacy safeguards and transparency in data usage.	Anonymize datasets, implement data encryption, and define clear data processing purposes.
Americans with Disabilities Act (ADA)	Design accessible AI solutions to cater to diverse user needs, ensuring equity in AI-driven public services.	Incorporate features like speech-to-text, text-to-speech, and user-friendly interfaces to ensure accessibility.
Internal Compliance		
Technical Controls	Safeguard AI systems against security breaches, data misuse, and unauthorized access.	Implement encryption, role-based access control (RBAC), and anomaly detection systems.
Administrative Controls	Define clear roles, responsibilities, and governance structures for AI system management.	Assign compliance officers, establish data stewardship roles, and create governance committees.
Policy Controls	Develop policies to ensure ethical, transparent, and fair use of AI technologies.	Create policies for bias mitigation, explainable AI (XAI), data usage, and ethical AI deployment.
Risk Mitigation Frameworks	Establish processes to identify, monitor, and address potential risks in AI deployment and operations.	Conduct regular audits, implement risk tracking systems, and establish incident response plans.
Data Governance	Ensure proper handling, storage, and processing of data to maintain quality and compliance.	Develop data ownership frameworks, enforce data privacy protocols, and implement lifecycle management.
Training and Awareness	Equip employees and stakeholders with knowledge of AI compliance, ethical standards, and best practices.	Conduct workshops, training sessions, and awareness programs for internal teams.

b. Design appropriate AI models, frameworks, or tools for selected use cases.

FedTec adopts a tailored approach to design AI models, frameworks, and tools that address the unique needs of selected use cases. The design process focuses on ensuring high performance, scalability, and compliance with organizational goals and regulatory standards.

FedTec designs AI models, frameworks, and tools to meet the unique needs of each use case, focusing on high performance, scalability, and compliance with organizational goals and regulations.



1. Model Selection and

Design: FedTec utilizes models tailored to specific tasks:

- **Predictive analytics and anomaly detection:** Supervised and unsupervised models like linear regression and clustering.
- **Image recognition:** Convolutional Neural Networks (CNNs).
- **Sequential data:** Recurrent Neural Networks (RNNs).
- **Natural Language Processing (NLP):** BERT and GPT for chatbots and sentiment analysis.
- **Dynamic scenarios:** Reinforcement learning for tasks like resource optimization.

2. Framework Development: Scalable AI frameworks are built using tools like TensorFlow, PyTorch, and Scikit-learn. Apache Spark handles large datasets, and Explainable AI (XAI) ensures transparency in decision-making processes.

3. Tool Integration:

- **Predictive maintenance:** MATLAB and analytics platforms forecast failures.
- **Cybersecurity:** Tools like Splunk and IBM QRadar provide real-time threat detection.
- **Citizen engagement:** Chatbots using Google Dialogflow and Microsoft Bot Framework streamline interactions.

4. Tailored Implementation: Solutions are customized for complexity, integration, and scalability, ensuring smooth deployment and the ability to adapt to growing data volumes and evolving organizational needs.

c. Provide a comprehensive roadmap, including governance, project timelines, milestones, resource requirements, and key performance indicators (KPIs).

FedTec’s roadmap offers a structured approach to implementing AI solutions, ensuring alignment with organizational objectives and regulatory compliance. The roadmap includes governance structures, project timelines, milestones, resource requirements, and key performance indicators (KPIs) to guarantee successful execution.

Governance Structure

- **Oversight Committees:** An oversight committee, led by a Project Manager, Compliance Manager, and technical leads, will be established to guide project decisions and ensure alignment with organizational objectives.
- **Defined Roles and Responsibilities:** Specific roles, such as data stewards, AI specialists, and implementation leads, will be assigned for accountability and seamless execution.
- **Compliance Framework:** Governance policies, supported by regular audits, will ensure ethical AI use, data security, and adherence to local, state, and federal regulations.

Project Timelines and Milestones

Phase	Timeline	Key Activities
Phase 1: Discovery and Planning	Month 1-2	<ul style="list-style-type: none"> - Conduct needs assessment and feasibility studies. - Review compliance requirements and align objectives with regulations. - Identify high-impact AI use cases and establish project objectives.
Phase 2: Design and Development	Month 3-5	<ul style="list-style-type: none"> - Develop tailored AI models and frameworks for the identified use cases. - Build data pipelines for seamless data integration and processing. - Perform pilot testing to validate AI functionality and performance.
Phase 3: Deployment and Scaling	Month 6-8	<ul style="list-style-type: none"> - Implement AI solutions organization-wide, ensuring alignment with operational needs. - Scale systems to additional departments or processes. - Conduct knowledge transfer and training programs for internal teams.
Phase 4: Monitoring and Optimization	Ongoing	<ul style="list-style-type: none"> - Regularly monitor AI system performance against key performance indicators (KPIs). - Refine models and processes based on evolving requirements and user feedback. - Ensure continuous alignment with compliance and governance frameworks.

**Timeline may vary as per task order received from members*

Resource Requirements

- Personnel Needs:** AI specialists, data engineers, project managers, and compliance officers.
- Technical Tools:** AI platforms (e.g., TensorFlow, PyTorch), cloud environments (AWS, Azure), and data management tools (e.g., Apache Spark, BigQuery).
- Budget Allocation:** Technology procurement, staff training, and operational scaling costs.
- Training Programs:** Tailored workshops for internal teams to ensure smooth adoption of AI technologies.

Key Performance Indicators (KPIs)

- ✓ **Operational Efficiency:** Reduction in manual workflows and processing times by 30-50%.
- ✓ **Cost Savings:** Achieve a 20-40% reduction in operational costs via AI-driven automation.
- ✓ **Citizen Engagement:** Improvement in satisfaction scores due to enhanced engagement and service delivery.
- ✓ **Model Accuracy:** Attain at least 95% accuracy for AI systems handling classification tasks.
- ✓ **Compliance Metrics:** Maintain zero regulatory violations and consistent adherence to governance policies.

d. Provide a comprehensive cost analysis for each proposed AI solution, including but not limited to anticipated development costs, cloud/compute costs, required licensing/subscriptions, cloud storage/backup, etc.

FedTec provides a detailed cost analysis for each AI solution, covering all aspects of development, deployment, and ongoing maintenance. This ensures transparency and helps stakeholders understand the financial investment required to achieve the desired outcomes.

Cost Component	Description	Estimated Cost Range
Development Costs	Costs associated with designing, developing, and testing AI models and frameworks.	\$100,000 - \$250,000 per use case
Cloud/Compute Costs	Expenses for cloud infrastructure (e.g., AWS, Azure, GCP) to support model training and execution.	\$10,000 - \$30,000/month
Licensing and Subscriptions	Costs for AI development tools (e.g., TensorFlow, PyTorch), APIs, and proprietary software licenses.	\$5,000 - \$15,000/year per solution
Cloud Storage/Backup	Fees for secure data storage, backups, and disaster recovery solutions.	\$1,000 - \$5,000/month
Training and Knowledge Transfer	Investment in workshops and training programs to ensure effective adoption by internal teams.	\$20,000 - \$50,000
Compliance and Governance	Costs for compliance audits, data security measures, and governance framework implementation.	\$10,000 - \$25,000
Operational and Maintenance Costs	Ongoing support, monitoring, and optimization of AI solutions post-deployment.	\$5,000 - \$10,000/month

Total Cost Range

- **Initial Implementation Costs:** \$150,000 - \$350,000 per use case.
- **Ongoing Costs (Annual):** \$50,000 - \$100,000 per solution.

e. Ensure AI solutions align with ethical guidelines and public sector regulations, including data privacy laws such as GDPR (if applicable), and customer's internal data loss protection policies.

FedTec prioritizes the alignment of all AI solutions with **ethical guidelines** and **public sector regulations** to ensure secure, fair, and compliant operations. Rigorous testing is conducted to mitigate biases, while Explainable AI (XAI) techniques are implemented to provide transparency in decision-making. Accountability is reinforced through robust logging and reporting mechanisms.

To comply with **data privacy laws** such as **GDPR** (if applicable), FedTec ensures data minimization, explicit user consent, and encryption of sensitive information. Transparency is further supported by adhering to the **Freedom of Information Act (FOIA)**, maintaining accessible records for non-sensitive AI operations. Additionally, solutions are designed to meet **Americans with Disabilities Act (ADA)** requirements, providing accessible interfaces for diverse users.

FedTec also aligns AI systems with the customer's **internal data loss protection (DLP) policies**, integrating measures to prevent unauthorized data sharing and breaches. Real-time monitoring and alerts are employed to safeguard sensitive information, complemented by governance frameworks to manage data securely.

To maintain compliance, FedTec conducts regular audits, updates AI systems as regulations evolve, and trains stakeholders on ethical AI use. This approach ensures that AI solutions remain ethical, transparent, and fully aligned with regulatory and organizational standards.

5.2.4 Pilot Testing and Implementation Support

a. Guide the organization through the implementation of pilot AI solutions.

FedTec, with its dedicatedly assigned **Project Manager & AI Lead Consultant**, a team of **450 internal employees**, and the resources of **FedTec Labs**, provides structured support to guide organizations through the implementation of pilot AI solutions. This ensures seamless integration, effective testing, and measurable outcomes aligned with organizational goals.



- **Planning and Preparation:** The **AI Lead Consultant** collaborates with stakeholders to define objectives, allocate necessary resources, and develop a pilot roadmap. This includes establishing timelines, milestones, and key performance indicators (KPIs) to evaluate success.
- **Development and Deployment:** FedTec’s team customizes AI models and frameworks to meet specific use case requirements. Using the resources of **FedTec Labs**, advanced testing and model validation are conducted to ensure compatibility and performance within real-world scenarios. Data integration and quality checks are prioritized for accuracy.
- **Training and Knowledge Transfer:** Internal teams are equipped through targeted workshops and training sessions led by the **AI Lead Consultant** and subject matter experts. Comprehensive user guides and manuals are provided to ensure operational readiness.
- **Monitoring and Feedback Collection:** Pilot solutions are monitored in real-time, with performance evaluated against KPIs. Stakeholder feedback is collected to identify areas for improvement, ensuring that the solution meets organizational expectations.
- **Post-Pilot Evaluation:** FedTec conducts a detailed analysis of the pilot results, refining the AI solution based on findings to enhance performance and scalability. These adjustments prepare the solution for full-scale deployment across the organization.

*With its experienced team, innovative **FedTec Labs**, and strategic guidance, FedTec ensures that pilot AI solutions are implemented effectively.*

b. Work with stakeholders to evaluate the pilot projects, troubleshoot issues, and refining solutions as needed.

FedTec’s **Project Manager (PM)** and **AI Lead Consultant** work closely with stakeholders to evaluate pilot projects by assessing performance against established **Key Performance Indicators (KPIs)**. Through regular reviews, they identify and troubleshoot technical, operational, or integration challenges, leveraging the advanced resources of **FedTec Labs** to address issues promptly and effectively. Stakeholder feedback and performance data are used to refine AI models and frameworks, ensuring scalability, accuracy, and alignment with organizational goals. This collaborative approach ensures pilot projects deliver optimal outcomes and are ready for successful full-scale implementation.

c. Offer post-implementation support for system integration and scaling AI solutions across the organization.

FedTec provides comprehensive post-implementation support to ensure seamless system integration and the successful scaling of AI solutions across the organization. The **Project Manager (PM)** oversees integration efforts, coordinating with internal teams to align AI solutions with existing systems and workflows. The **AI Lead Consultant** ensures scalability by refining models and frameworks to adapt to larger datasets, additional departments, or evolving organizational needs. Leveraging **FedTec Labs**, advanced diagnostics and optimization tools are utilized to enhance performance and reliability. Continuous monitoring, training programs, and responsive technical support are provided to address challenges and sustain system efficiency, enabling the organization to maximize the value of its AI solutions.

5.2.5 Training, Adoption, and Capacity Building

a. Provide training sessions and materials for staff on AI tools and best practices, to ensure effective and efficient use of AI.

FedTec delivers targeted training sessions and materials to equip staff with the knowledge and skills needed to effectively use AI tools and adopt best practices.

- **Customized Training Programs:** Tailored sessions are developed by the **AI Lead Consultant** to align with organizational needs and use cases, covering the functionality of specific AI tools, model interpretation, and operational workflows.
- **Interactive Workshops:** Hands-on workshops ensure practical understanding, allowing staff to engage with AI tools in real-time and apply them to day-to-day operations.
- **Comprehensive Materials:** Training resources, including user manuals, quick-start guides, video tutorials, and FAQs, are provided to support ongoing learning and ease adoption.
- **Best Practices:** Sessions emphasize ethical AI use, data privacy, and compliance, ensuring staff operate AI systems responsibly and securely.

b. Facilitate workshops to build internal AI capabilities and foster a culture of innovation.

FedTec organizes interactive workshops to enhance internal AI expertise and promote a culture of innovation. Led by the **Project Manager & AI Lead Consultant**, these workshops focus on developing foundational and advanced AI skills, including understanding workflows, managing data pipelines, and deploying models effectively. By incorporating hands-on exercises and real-world scenarios, participants gain practical knowledge that aligns directly with their roles. The workshops encourage cross-functional collaboration, bringing together diverse teams to brainstorm innovative AI applications and align initiatives with organizational objectives. Additionally, they emphasize long-term capability building, empowering staff to lead future AI projects and embedding innovation as a core competency.

c. Develop a knowledge transfer plan to ensure the organization can maintain and update AI systems independently.

FedTec creates a **comprehensive knowledge transfer plan** to ensure the organization independently **maintain and update AI systems**. The plan includes **structured training sessions**, led by the **AI Lead Consultant**, to provide in-depth knowledge of **AI tools**, workflows, and system functionalities. To support **long-term self-sufficiency**, detailed **documentation** such as **user manuals**, system **architecture diagrams**, and **troubleshooting guides** is provided. Additionally, **mentorship programs** and **shadowing opportunities** allow internal teams to work closely with FedTec experts, gaining **hands-on experience** in managing and updating AI systems.

5.3 Specifications and Requirements:

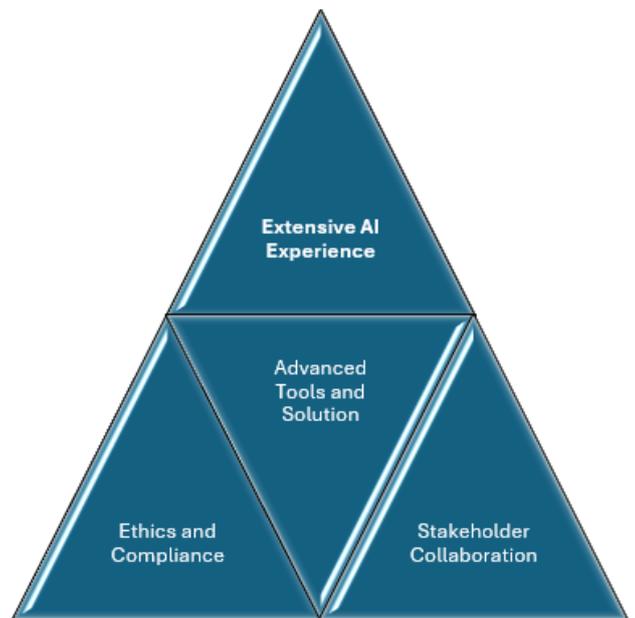
5.3.1 Consultant Expertise and Qualifications

a. Demonstrated experience in providing AI consultancy services to government agencies or similar public sector organizations.

b. Proficiency in AI technologies, including machine learning, natural language processing, computer vision, etc.

FedTec demonstrates **proficiency in AI technologies**, leveraging advanced **machine learning** techniques such as **supervised, unsupervised, and reinforcement learning** to develop predictive models for tasks like anomaly detection and trend analysis. Its expertise extends to **natural language processing (NLP)**, enabling the creation of conversational AI tools like chatbots and virtual assistants for improved citizen engagement. Additionally, FedTec excels in **computer vision**, employing deep learning models like **Convolutional Neural Networks (CNNs)** for image recognition and infrastructure monitoring. By utilizing state-of-the-art tools such as **TensorFlow, PyTorch, and AWS SageMaker**, FedTec delivers scalable and innovative solutions tailored to public sector needs.

FedTec’s team comprises highly skilled professionals with expertise in diverse **AI technologies** and public sector solutions. The team includes **AI strategists, data scientists, machine learning engineers, and compliance specialists**, each with extensive experience in delivering impactful AI implementations. FedTec’s **dedicated project management team**, led by Anand Marthi, ensures seamless communication, resource allocation, and quality control. Supported by AI Lead Consultant Chaudhry Ibrahim, the team collaborates across disciplines to design tailored solutions that are innovative, compliant, and aligned with client objectives. With over **450 internal resources** and access to **FedTec Labs**, the team is equipped to handle projects of any scale while maintaining exceptional service quality.



c. Experience with AI ethics, data privacy, and security, particularly in a public sector context.

FedTec has proven expertise in **AI ethics, data privacy, and security**, particularly within the public sector. Working with clients such as **Skytech Consultancy Services, New Generation LLC, Prudent Technology LLC, and NeevSys, Inc**, FedTec ensures compliance with frameworks like **GDPR, FOIA, and NIST**. The firm integrates **bias mitigation measures** and **Explainable AI (XAI)** techniques, emphasizing fairness, transparency, and data protection in all AI deployments.

For **AmeriCorps**, FedTec implemented **Retrieval Augmented Generation (RAG)** capabilities within their **ServiceNow platform**, introducing an AI chatbot that reduced manual ticket submissions by 80% and improved response times by 50%. This solution streamlined operations, enhanced user satisfaction, and ensured efficient resource utilization.

At the **IRS**, FedTec developed an **RPA system** integrated with AI to automate **anomaly detection** in taxpayer data, reducing resolution times by 60%. This solution improved accuracy while maintaining strict privacy and compliance standards, enabling IRS staff to focus on complex cases effectively.

For the **City of Pittsburgh**, FedTec deployed a **RAG model** and AI chatbot to standardize salary structures and improve workforce management. These solutions enhanced salary standardization accuracy by 35% and reduced position identification time by 40%, ensuring equitable pay and operational efficiency while adhering to ethical AI practices.

d. Proven success in developing AI strategies and roadmaps, including successful project implementation.

FedTec has demonstrated **proven success** in developing comprehensive **AI strategies and roadmaps** tailored to public sector needs. The firm employs a structured approach to assess organizational goals, identify impactful use cases, and design phased implementation plans that deliver measurable outcomes. These roadmaps emphasize **governance, compliance, and scalability**, ensuring alignment with client priorities and regulatory requirements.

For **Skytech Consultancy Services**, FedTec integrated AI-driven features into ERP systems, enhancing decision-making and reducing operational errors by 30%. Similarly, FedTec worked with **New Generation LLC** to develop predictive analytics models for public transportation, improving resource allocation by 25% and boosting passenger satisfaction.

In partnership with **Prudent Technology LLC**, FedTec implemented AI-enabled cybersecurity solutions, deploying real-time threat detection models that reduced breaches by 40%. These projects showcase FedTec’s ability to translate strategic roadmaps into impactful, scalable AI implementations, driving efficiency and innovation across public sector operations.

e. Ability to work collaboratively with internal teams and translate technical concepts into layman’s terms for non-technical stakeholders.

FedTec excels in **collaborative engagement** with internal teams, ensuring seamless integration of AI solutions into organizational workflows. The firm’s approach emphasizes open communication and cross-functional teamwork, guided by experienced professionals who bridge the gap between technical complexities and business goals.

For example, during its work with **Skytech Consultancy Services** and **New Generation LLC**, FedTec conducted workshops and facilitated stakeholder alignment meetings to ensure all parties clearly understood AI strategies and their operational benefits. The team translates **technical concepts** into practical, easily digestible explanations for **non-technical stakeholders**, enabling informed decision-making and fostering trust. Through customized training sessions and interactive demonstrations, FedTec empowers internal teams to adopt and manage AI tools effectively

f. Demonstrated understanding and experience with public sector compliance and ethical standards.

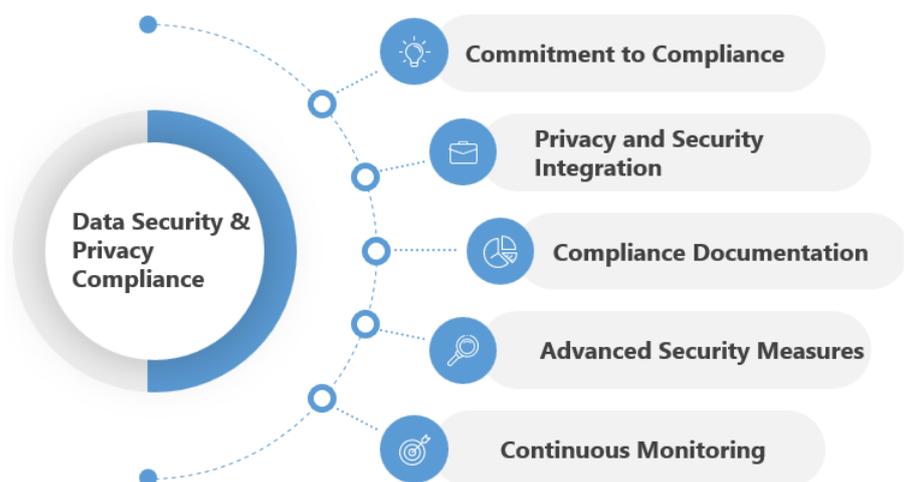
FedTec has extensive experience working with multiple government sector clients, ensuring adherence to public sector compliance and ethical standards. Key engagements include projects with Skytech Consultancy Services, New Generation LLC, Prudent Technology LLC, and NeevSys, Inc, where FedTec successfully implemented AI-driven solutions while maintaining compliance with frameworks such as GDPR, FOIA, and HIPAA.

For AmeriCorps, FedTec developed an AI-enhanced ServiceNow platform, incorporating Retrieval Augmented Generation (RAG) capabilities to improve user satisfaction and operational efficiency. At the IRS, FedTec implemented an AI-driven anomaly detection system, ensuring data privacy and accuracy while automating complex processes. Additionally, FedTec supported the City of Pittsburgh with AI solutions to standardize salary structures and optimize workforce management, emphasizing equity and transparency.

5.3.2 Data Security and Privacy Compliance

FedTec is committed to ensuring full compliance with all **federal, state, and local data privacy laws** throughout the implementation of AI solutions. This includes adhering to regulations such as the **General Data Protection Regulation (GDPR)** (where applicable) and equivalent local laws. By integrating compliance into every stage of the AI lifecycle, FedTec ensures that privacy and security remain top priorities.

To validate compliance, FedTec provides detailed **documentation** demonstrating that all AI systems are designed to meet data protection regulations. This includes measures such as **data**



minimization, user consent protocols, and mechanisms to enable transparency and accountability in AI decision-making. Robust **security measures** are implemented to protect sensitive and personal information during data processing. This includes advanced **encryption, anonymization, and access control protocols** to safeguard data against unauthorized access or breaches. Regular **audits and risk assessments** are conducted to ensure ongoing compliance and to address emerging threats.

5.3.3 Project Management and Reporting

FedTec ensures effective project oversight, transparent communication, and thorough documentation through robust **project management and reporting practices**. Utilizing tools like **Microsoft Project, JIRA, and Confluence**, the **Project Manager (PM)** provides **regular status updates** and attends weekly or bi-weekly meetings with the organization's project management team. These updates include progress tracking, milestone achievements, and solutions to any challenges, ensuring alignment with project objectives.

At the conclusion of the project, FedTec delivers a **detailed final report** summarizing findings, actionable recommendations, implementation outcomes, and lessons learned. Additionally, a comprehensive suite of reports—including **progress reports, financial summaries, and risk assessments**—is made available to meet the organization's specific requirements.

FedTec is committed to adhering to all **agreed deadlines**, ensuring timely delivery of required documentation and project deliverables. With a proactive **PM** leading the process and leveraging advanced tools, FedTec provides an organized, transparent, and results-driven approach to project management, supporting the organization in achieving its objectives efficiently.

5.3.4 Budget and Cost Estimates

a. Comprehensive Cost Breakdown

FedTec provides a detailed cost breakdown to ensure transparency and alignment with the organization's financial expectations. This includes:

- **Consultancy Fees:** Covers the expertise and services provided by the **AI Lead Consultant, Project Manager**, and support teams.
- **Software Licensing Costs:** Expenses related to AI development platforms (e.g., TensorFlow, PyTorch) or proprietary tools, if applicable.
- **Additional Expenses:** Includes anticipated costs for cloud infrastructure, data storage, backup solutions, compliance audits, training sessions, and knowledge transfer activities.

b. Flexible Pricing Structures

FedTec offers flexible pricing models tailored to the project's scope and complexity:

- **Time and Materials:** Best suited for projects with evolving requirements, ensuring cost control and adaptability.
- **Fixed-Price Contracts:** Ideal for clearly defined scopes of work, providing predictable budgeting and no cost overruns.

5.3.5 Data Strategy and Management

a. Data Quality Controls:

FedTec ensures that all AI solutions align with **best practices in data strategy and management**, prioritizing **data quality, governance, privacy, and security**. This approach guarantees that AI models operate on accurate and reliable data while adhering to organizational and regulatory standards.

1. **Integrity and Accuracy Measures:** FedTec implements controls to ensure the integrity and accuracy of data used in AI models. It includes employing **automated tools** and algorithms to monitor data quality and detect discrepancies in real-time.
2. **Data Validation Processes:** Validation protocols are established to identify and correct **inaccuracies or inconsistencies** in datasets. These processes include schema checks, outlier detection, and cross-referencing with trusted sources to confirm data reliability before use in AI systems.
3. **Data Enrichment Procedures:** FedTec defines clear procedures to enhance the quality of datasets, including filling gaps with predictive modeling, normalizing formats, and integrating relevant external data sources. This ensures that datasets are optimized for AI training and operational effectiveness.

b. Data Governance Framework:

FedTec establishes a comprehensive **data governance framework** to ensure effective management, transparency, and regulatory compliance for all data used in AI solutions. This framework is designed to address **data ownership, usage rights, and stewardship roles** while maintaining the highest standards of governance.

1. Governance Strategy and Policies

FedTec outlines a robust governance strategy, which includes:

- **Policies for Data Ownership:** Clearly defining who owns, accesses, and manages the data within the organization.
- **Usage Rights:** Establishing guidelines on how data be used, shared, and repurposed, ensuring ethical and legal compliance.
- **Data Stewardship Roles:** Assigning responsibilities to data stewards to oversee data quality, governance, and compliance initiatives.

2. Compliance with Public Sector Regulations

To facilitate adherence to public sector regulations, FedTec provides:

- **Governance Documentation:** Detailed policies and procedures that align with regulations like **GDPR**, **FOIA**, and local/state data laws.
- **Audit-Ready Processes:** Implementing systems that support regulatory audits, ensuring accountability and transparency in data handling.

3. Version Control and Data Lineage Tracking

FedTec implements tools and processes to maintain transparency and control in data management, including:

- **Version Control Tools:** Leveraging systems like **Git**, **Apache Subversion (SVN)**, and **Microsoft Azure DevOps** to track changes in datasets, ensuring data consistency and minimizing errors.
- **Data Lineage Tracking Tools:** Utilizing platforms such as **Apache Atlas**, **Collibra**, and **Talend** to map the flow of data from its source to its use in AI models. These tools provide detailed visibility into how data is processed, transformed, and stored.

c. Data Privacy Assurance:

FedTec prioritizes **data privacy assurance** to ensure that all AI solutions comply with **data privacy laws** and protect sensitive information throughout the AI model lifecycle. This approach builds trust and ensures ethical data usage.

1. Adherence to Data Privacy Laws

FedTec ensures full compliance with **GDPR** (if applicable) and relevant **local legislation** by:

- Conducting privacy impact assessments for AI solutions to identify and address potential risks.
- Embedding compliance requirements into AI workflows and operational protocols.
- Aligning all data processes with public sector regulations and organizational policies to maintain transparency and accountability.

2. Methodologies for Anonymizing and Protecting Sensitive Data

FedTec implements robust methodologies to safeguard sensitive information, including:

- **Data Anonymization:** Using techniques such as **masking**, **tokenization**, and **differential privacy** to prevent identification of individuals within datasets.
- **Encryption Protocols:** Employing **AES-256** encryption standards to protect data during storage and transmission.
- **Access Controls:** Utilizing tools like **Microsoft Azure Active Directory** and **Okta** for role-based access, ensuring only authorized personnel access sensitive data.

3. Protocol for Obtaining and Managing Consent

FedTec creates a comprehensive **data consent protocol**, which includes:

- **Obtaining Consent:** Developing clear and accessible consent forms that outline how data will be used, stored, and protected.
- **Managing Consent:** Using consent management platforms like **OneTrust** or **TrustArc** to track and maintain records of user consent.
- **Auditing and Updating:** Regularly reviewing consent protocols to ensure alignment with evolving privacy regulations.

d. Data Security Protocols:

FedTec establishes comprehensive **data security protocols** to protect sensitive information and ensure robust defenses against potential threats. These protocols encompass advanced security measures, incident response plans, and secure data management practices.

1. Implementation of Data Security Measures

FedTec deploys and recommends industry-standard measures to safeguard data integrity and confidentiality:

- **Encryption:** Adopting protocols such as **AES-256** and **SSL/TLS** for secure data storage and transmission.
- **Access Controls:** Utilizing **role-based access control (RBAC)** through tools like **Microsoft Azure Active Directory** or **Okta** to restrict unauthorized access.
- **Risk Assessment Practices:** Conducting regular **vulnerability scans**, **penetration tests**, and **risk assessments** to proactively identify and address security gaps.

2. Response Plan for Data Breaches

FedTec develops a detailed **data breach response plan** to minimize impact and ensure swift resolution in case of security incidents:

- **Incident Management:** Clearly defined responsibilities for the **consultant team**, including immediate containment, root cause analysis, and system restoration.
- **Notification Procedures:** Ensuring timely reporting to stakeholders, regulatory bodies, and affected individuals as required by laws such as **GDPR**.
- **Post-Incident Review:** Conducting post-mortem analysis to identify root causes and implement preventive measures.

3. Secure Data Storage and Backup Practices

To protect against data loss, FedTec adheres to best practices in secure data management:

- **Storage:** Utilizing **cloud storage solutions** like **AWS S3** or **Microsoft Azure Blob Storage**, configured with encryption and redundant storage.
- **Backups:** Implementing automated **incremental backups** and **off-site storage** to ensure data recovery in case of system failures.
- **Access Monitoring:** Logging and monitoring all access to storage systems to detect and respond to unauthorized activities.

e. Ongoing Data Strategy Evaluation:

FedTec ensures a sustainable and adaptable approach to **data strategy** by incorporating periodic evaluations and empowering internal teams to maintain compliance and efficiency over time.

1. Plan for Periodic Evaluation and Updates

FedTec develops a structured plan to regularly evaluate and update the organization's data strategy to adapt to **regulatory changes** and **technological advancements**:

- **Quarterly Reviews:** Conduct assessments to identify gaps or areas for improvement in the current data strategy.
- **Regulatory Tracking:** Monitor changes in **data privacy laws** (e.g., GDPR, local legislation) to ensure continued compliance.
- **Technology Updates:** Integrate advancements in **AI tools**, **encryption technologies**, and **data governance frameworks** to enhance efficiency and security.
- **Stakeholder Reports:** Provide regular reports summarizing evaluation results and recommendations for updates.

2. Training and Workshops for Internal Teams

FedTec offers tailored **training programs** to enable internal teams to manage and uphold the data strategy after the consultation period:

- **Workshops on Data Governance:** Covering topics such as data quality management, privacy regulations, and governance protocols.
- **Hands-On Training:** Practical sessions led by the **AI Lead Consultant** to train teams how to use tools and processes for data monitoring and reporting.
- **Sustainability Focus:** Equip teams with strategies for long-term management, including self-audit techniques and response plans for emerging challenges.

5.3.6 Ethical AI Requirements

a. Ethical Framework Alignment:

FedTec ensures that all AI solutions are developed and deployed in alignment with the organization's **ethical principles**, emphasizing **fairness**, **transparency**, **accountability**, and **bias mitigation**. This commitment fosters trust and ensures responsible AI practices.

1. Aligning with Ethical Guidelines

FedTec ensures AI solutions align with **industry-standard ethical frameworks** like the **OECD AI Principles**, **EU AI Act**, and **AI Ethics Guidelines for Trustworthy AI**, as well as the organization's specific ethical principles.

- **Transparency Tools:** Utilizing **Explainable AI (XAI)** tools such as **IBM AI Explainability 360** and **Google What-If Tool** to make decision-making processes clear and understandable for stakeholders.
- **Accountability Systems:** Implementing governance structures supported by tools like **AuditAI** for automated compliance checks and monitoring.
- **Ethics Dashboards:** Deploying dashboards powered by platforms such as **Power BI** or **Tableau** to track and report AI system performance, transparency metrics, and ethical adherence.

2. Fairness and Inclusiveness in AI Development

FedTec incorporates fairness and inclusiveness into AI development through advanced technical measures:

- **Bias Mitigation Techniques:** Leveraging tools like **Fairlearn** and **AI Fairness 360 (AIF360)** to identify, measure, and reduce bias in models.
- **Inclusive Dataset Design:** Utilizing **Snorkel AI** or **Labelbox** to curate diverse datasets and perform data annotation while addressing demographic imbalances.
- **Continuous Monitoring:** Deploying automated monitoring systems such as **Amazon SageMaker Clarify** to evaluate bias throughout the AI lifecycle.

b. Bias Detection and Mitigation:

FedTec employs advanced **bias detection** and **mitigation techniques** to ensure AI solutions are equitable and inclusive. Through robust methods and state-of-the-art tools, bias is identified, reduced, and continuously monitored throughout the AI lifecycle.

1. Identifying and Reducing Bias in Training Data and Algorithms

FedTec establishes comprehensive methods to detect and minimize bias in datasets and AI models:

- **Bias Auditing Tools:** Tools like **AI Fairness 360 (AIF360)** and **Fairlearn** are used to assess datasets and algorithms for potential biases across protected attributes such as gender, age, and ethnicity.
- **Data Preprocessing Techniques:** Implement methods like **re-sampling**, **re-weighting**, and **synthetic data generation** using tools such as **Snorkel AI** to create balanced and representative datasets.
- **Fair Algorithms:** Implement fairness-aware algorithms, such as **adversarial debiasing** or **regularized loss functions**, to reduce bias during model training.
- **Explainable AI (XAI):** Tools like **SHAP** and **LIME** are used to analyze model decisions and identify bias in output patterns.

2. Ongoing Monitoring Techniques

FedTec ensures that bias mitigation is a continuous process by implementing automated monitoring systems during AI deployment:

- **Real-Time Bias Tracking:** Utilize tools like **Amazon SageMaker Clarify** and **Google Cloud AI Explanations** to monitor AI outputs in real-time for bias indicators.
- **Post-Deployment Audits:** Schedule periodic audits using platforms such as **AuditAI** to assess model performance and bias metrics.
- **Feedback Loops:** Integrate user feedback mechanisms to identify and address bias from real-world applications of the AI system.
- **Automated Alerts:** Configure anomaly detection systems to flag unexpected disparities in outputs, enabling rapid corrective action.

c. Transparency Protocols:

FedTec prioritizes **transparency** in AI solutions by making models understandable and accessible to relevant stakeholders. By leveraging cutting-edge tools and comprehensive documentation, the organization ensures that decision-making processes are clear and accountable.

1. Understandable AI Models for Stakeholders

FedTec employs advanced techniques and tools to enhance the interpretability of AI models:

- **Explainable AI (XAI):** Tools like **SHAP (SHapley Additive ExPlanations)**, **LIME (Local Interpretable Model-agnostic Explanations)**, and **Google What-If Tool** are integrated to provide visual and quantitative explanations of how AI decisions are made.
- **Stakeholder Dashboards:** Utilize platforms like **Tableau** and **Power BI** to present model outcomes, key decision metrics, and explanations in an easily interpretable format.
- **Model Decision Summaries:** Develop user-friendly reports summarizing decision logic and outputs tailored for both technical and non-technical stakeholders.

2. Comprehensive Documentation Process

FedTec ensures full transparency by documenting all aspects of the AI system:

- **Data Source Documentation:** Maintain detailed records of data origins, collection methods, and preprocessing steps, using tools like **Apache Atlas** or **Collibra** to track data lineage.
- **Decision Logic Records:** Document the algorithms, decision thresholds, and logic pathways used in the model, ensuring traceability and accountability.
- **Model Output Explanations:** Provide insights into model predictions and outputs, including confidence scores, bias mitigation steps, and fairness assessments.
- **Version Control Systems:** Utilize tools like **Git** or **Microsoft Azure DevOps** to manage model versions and changes, ensuring an audit trail for all updates.

d. Accountability Measures:

FedTec prioritizes **accountability** in AI development and deployment by implementing measures to track actions, decisions, and changes, and by establishing robust auditing mechanisms to ensure compliance with ethical standards. This approach fosters transparency, trust, and continuous improvement.

1. Defining Accountability Measures

FedTec implements clear accountability structures for AI systems to ensure traceability of all actions and decisions:

- **Action and Decision Tracking:** Leveraging tools such as **Git** and **Azure DevOps** for version control to monitor and document changes to models, datasets, and workflows.
- **Audit Trails:** Automated logging of decision-making processes and AI outputs using platforms like **DataRobot** or **Amazon SageMaker Clarify**, enabling full visibility into how and why decisions are made.

- **Role Assignment:** Establishing clear responsibilities for **AI developers, data stewards, and compliance officers** to oversee different aspects of AI development and use.

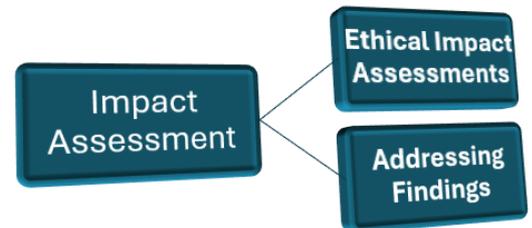
2. Mechanisms for Auditing AI Solutions

FedTec proposes rigorous auditing frameworks to ensure ethical standards are upheld throughout the lifecycle of AI systems:

- **Compliance Audits:** Regular assessments using tools like **AuditAI** and **Collibra** to evaluate adherence to ethical principles, regulatory requirements, and organizational policies.
- **Performance Monitoring:** Continuous tracking of AI models for bias, fairness, and accuracy using platforms such as **Fairlearn** and **AI Fairness 360**.
- **Independent Reviews:** Engaging external auditors or third-party evaluations to ensure impartial assessments of AI compliance.
- **Audit Dashboards:** Providing real-time insights and reporting through dashboards powered by **Power BI** or **Tableau**, ensuring transparency for stakeholders.

e. Impact Assessments:

FedTec incorporates regular **ethical impact assessments** into its AI development and deployment processes to evaluate potential **societal, cultural, and operational impacts**. By leveraging structured frameworks and advanced tools, the organization ensures that findings are addressed proactively and responsibly.



1. Plans for Regular Ethical Impact Assessments

FedTec conducts periodic assessments to evaluate the broader implications of AI systems. Using established frameworks such as the **HLEG Assessment List for Trustworthy AI (ALTAI)** and tools like **Ethics Canvas**, these evaluations focus on metrics such as inclusivity, accessibility, and fairness. The assessments involve input from a diverse range of stakeholders, including end-users, policymakers, and domain experts, to ensure a comprehensive understanding of the AI system's impacts. By defining clear metrics and **Key Performance Indicators (KPIs)**, FedTec ensures that all societal, cultural, and operational risks are effectively monitored.

2. Framework for Addressing Findings

To respond to assessment findings, FedTec implements a structured framework designed to take immediate and effective corrective actions. This begins with **root cause analysis**, using tools such as **Tableau** or **Power BI** to visualize and analyze data linked to ethical concerns. Based on these insights, detailed **corrective action plans** are developed to address issues like bias, lack of inclusivity, or unfair outcomes.

The framework incorporates a **continuous improvement loop**, ensuring the effectiveness of corrective measures is monitored over time. Platforms like **Collibra** or **OneTrust** are utilized to track compliance with ethical standards and regulatory requirements, maintaining alignment with best practices. Additionally, feedback mechanisms ensure that the lessons learned from these assessments are integrated into future AI development cycles.

5.4 Deliverables

Deliverables include, but are not limited to, the following:

a. Initial AI Strategy Report.

FedTec delivers a **technical Initial AI Strategy Report** that establishes the foundation for the organization's AI integration. This report will provide a detailed roadmap aligning AI initiatives with the organization's operational goals, technical requirements, and compliance obligations. The report will begin with an **assessment of the current state**, analyzing existing infrastructure, processes, and technologies to identify gaps and opportunities for AI adoption. It will outline **strategic AI goals**, defining measurable objectives to enhance efficiency, decision-making, and stakeholder engagement. The **proposed AI use cases** will be tailored to the



organization’s unique needs, prioritized based on feasibility and potential benefits. Each use case will include technical details such as recommended AI models, required data inputs, and expected outcomes. The report will also present an **implementation roadmap** with clearly defined phases, including timelines, milestones, resource requirements, and pilot project recommendations to validate AI strategies. To ensure compliance, the report will include a robust **ethical and regulatory framework**, detailing adherence to data privacy laws (e.g., GDPR, FOIA) and fairness principles. A **cost analysis** will be provided, including projected expenses for development, licensing, infrastructure, and training, alongside a return on investment (ROI) projection for each AI initiative.

b. Feasibility Study with AI Use Case Recommendations, including a detailed data strategy component.

FedTec will deliver a **Feasibility Study** that provides an in-depth analysis of proposed AI use cases, assessing their technical, operational, and financial viability. This study will include a **detailed data strategy component** to ensure the successful implementation and sustainability of AI solutions.

The **feasibility analysis** will evaluate the potential impact and alignment of AI use cases with organizational goals. Each recommendation will include a detailed assessment of required resources, technical prerequisites, and potential challenges. Metrics such as cost-effectiveness, scalability, and operational efficiency will guide the prioritization of use cases.

The accompanying **data strategy component** will focus on ensuring high-quality, secure, and compliant data management throughout the AI lifecycle. Key elements include:

- **Data Quality Controls:** Techniques for cleansing, validating, and enriching datasets to ensure reliable AI model performance.
- **Data Governance Framework:** Policies for data ownership, access, and compliance, leveraging tools like **Apache Atlas** or **Collibra** for tracking lineage and ensuring regulatory adherence.
- **Data Integration Strategy:** Recommendations for integrating organizational data with AI systems, addressing challenges related to legacy systems, silos, and cross-departmental workflows.
- **Scalability Considerations:** Ensuring the data infrastructure support growing volumes and diverse sources, with the use of cloud platforms like **AWS** or **Microsoft Azure**.

c. 5-Year AI Roadmap alongside a detailed AI Implementation Plan.

FedTec’s **5-Year AI Roadmap** and **Implementation Plan** offer a structured approach to sustainable AI development and deployment. The roadmap begins with foundational phases, including assessments and pilot projects, to establish a robust AI framework. Subsequent phases prioritize scaling solutions across departments, incorporating advanced technologies like **predictive analytics**, **NLP**, and **machine learning**, tailored to organizational goals.

Governance frameworks ensure compliance with **ethical standards**, **data privacy laws**, and **regulatory mandates** such as **GDPR**. Key milestones and **KPIs** (e.g., operational efficiency, cost savings, and citizen engagement metrics) are defined to measure success. The implementation plan provides timelines, resource allocations, and training schedules, empowering internal teams to manage AI systems independently. Continuous monitoring, performance optimization, and integration of emerging technologies ensure scalability and alignment with future innovations, positioning the organization at the forefront of AI-driven transformation.

d. Pilot Implementation Plan.

FedTec's **Pilot Implementation Plan** would be designed using a team of experts with *extensive experience in government and public sector projects, ensuring compliance, efficiency, and technical excellence*. The plan includes customized AI solutions tailored to specific use cases, integrating advanced technologies like **predictive analytics**, **NLP**, and **machine learning frameworks** such as TensorFlow and PyTorch. Data is securely managed with tools like **AWS SageMaker** and **Azure AI Services**, employing robust encryption and governance platforms such as **OneTrust** and **Collibra**. Real-time monitoring with **CloudWatch** and **Explainable AI (XAI)** tools ensures transparency and performance tracking. The pilot outcomes are evaluated for scalability, with knowledge transfer sessions empowering internal teams to independently operate and expand AI systems, aligning with long-term organizational goals.



e. Staff training Sessions and Knowledge Transfer Plan and Materials.

FedTec delivers **staff training sessions** and a **knowledge transfer plan** to ensure effective AI adoption and compliance. Training programs focus on **data privacy laws** (e.g., GDPR, FOIA) and internal governance standards, equipping teams with practical skills using tools like **TensorFlow** and **AWS SageMaker**. Workshops address ethics, transparency, and bias mitigation with tools such as **Fairlearn** and **AI Fairness 360**.

The **knowledge transfer plan** includes detailed documentation, mentorship, and compliance tools like **Collibra** and **OneTrust**. Post-deployment support ensures teams independently manage and scale AI systems while adhering to regulatory requirements, fostering long-term operational success.

f. Detailed documentation on ethical AI guidelines and measures incorporated.

FedTec provides **detailed documentation** outlining the **ethical AI guidelines** and measures integrated into its solutions, ensuring compliance with industry standards and organizational principles. The documentation includes frameworks like the **OECD AI Principles** and **AI Ethics Guidelines for Trustworthy AI**, detailing their application in system design and deployment.

It highlights measures for **fairness**, such as bias detection using tools like **Fairlearn** and **AI Fairness 360**, and **transparency**, achieved through **Explainable AI (XAI)** tools like SHAP and LIME. Accountability measures, including action tracking and version control with platforms like **MLflow** and **Git**, are thoroughly explained. This documentation serves as a reference for ensuring all AI systems align with ethical standards, fostering trust and transparency in their operations.

g. Final Project Report, including project evaluation, outcomes, and recommendations for further AI integration.

FedTec will deliver a **Final Project Report** that provides a comprehensive overview of the project’s execution, evaluation, and outcomes, along with actionable recommendations for future AI integration. The report will detail the **project's objectives**, the methodologies employed, and the results achieved, including key metrics such as operational improvements, cost savings, and stakeholder satisfaction. The evaluation section will assess the performance of deployed AI solutions, including their alignment with organizational goals and compliance with **data privacy** and **ethical AI standards**. Tools like **Power BI** and **Tableau** will be used to visualize project outcomes. The report will also offer strategic recommendations for expanding AI applications, incorporating scalability considerations, emerging technologies, and feedback from stakeholders, ensuring the organization is equipped to sustain and enhance its AI initiatives.

6. Pricing

Provided in the excel separately.

7. HUB Bonus

FedTec is a certified Small, Women-Owned, Minority-Owned Business recognized by the Commonwealth of Virginia.



8. Required Attachments

Attachment 1

**ATTACHMENT I: INSTRUCTIONS
FOR PROPOSALS COMPLIANCE AND SUBMITTAL**

Compliance with the Solicitation

Submissions must be in strict compliance with this solicitation. Failure to comply with all provisions of the solicitation may result in disqualification.

Compliance with the NCTCOG Standard Terms and Conditions

By signing its submission, Offeror acknowledges that it has read, understands and agrees to comply with the NCTCOG standard terms and conditions.

Acknowledgment of Insurance Requirements

By signing its submission, Offeror acknowledges that it has read and understands the insurance requirements for the submission. Offeror also understands that the evidence of required insurance must be submitted within ten (10) working days following notification of its offer being accepted; otherwise, NCTCOG may rescind its acceptance of the Offeror's proposals. The insurance requirements are outlined in Section 2.2 - General Terms and Conditions.

Name of Organization/Contractor(s):

FedTec, LLC

Signature of Authorized Representative:

Parminder Kaur

Digitally signed by Parminder Kaur
Date: 2025.01.08 19:09:21 +05'30'

Date: **Jan 8, 2025**

Attachment II

ATTACHMENT II: CERTIFICATIONS OF OFFEROR

I hereby certify that the information contained in this proposal and any attachments is true and correct and may be viewed as an accurate representation of proposed services to be provided by this organization. I certify that no employee, board member, or agent of the North Central Texas Council of Governments has assisted in the preparation of this proposal. I acknowledge that I have read and understand the requirements and provisions of the solicitation and that the organization will comply with the regulations and other applicable local, state, and federal regulations and directives in the implementation of this contract.

I also certify that I have read and understood all sections of this solicitation and will comply with all the terms and conditions as stated; and furthermore that I, Parminder Kaur (typed or printed name) certify that I am the Director (title) of the corporation, partnership, or sole proprietorship, or other eligible entity named as offeror and respondent herein and that I am legally authorized to sign this offer and to submit it to the North Central Texas Council of Governments, on behalf of said offeror by authority of its governing body.

Name of Organization/Contractor(s):

FedTec, LLC

Signature of Authorized Representative:

Parminder Kaur Digitally signed by Parminder Kaur
Date: 2025.01.08 19:10:40 +09'30'

Date: Jan 8, 2025

Attachment III

**ATTACHMENT III: CERTIFICATION
REGARDING DEBARMENT, SUSPENSION AND OTHER RESPONSIBILITY MATTERS**

This certification is required by the Federal Regulations Implementing Executive Order 12549, Debarment and Suspension, 45 CFR Part 93, Government-wide Debarment and Suspension, for the Department of Agriculture (7 CFR Part 3017), Department of Labor (29 CFR Part 98), Department of Education (34 CFR Parts 85, 668, 682), Department of Health and Human Services (45 CFR Part 76).

The undersigned certifies, to the best of his or her knowledge and belief, that both it and its principals:

1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency;
2. Have not within a three-year period preceding this contract been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or Local) transaction or contract under a public transaction, violation of federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false Proposals, or receiving stolen property;
3. Are not presently indicated for or otherwise criminally or civilly charged by a government entity with commission of any of the offense enumerated in Paragraph (2) of this certification; and,
4. Have not within a three-year period preceding this contract had one or more public transactions terminated for cause or default.

Where the prospective recipient of federal assistance funds is unable to certify to any of the qualifications in this certification, such prospective recipient shall attach an explanation to this certification form.

Name of Organization/Contractor(s):

FedTec, LLC

Signature of Authorized Representative:

Parminder Kaur

Digitally signed by Parminder Kaur
Date: 2025.01.08 19:15:14 +05'30'

Date: **Jan 8, 2025**

Attachment IV**ATTACHMENT IV: RESTRICTIONS ON LOBBYING**

Section 319 of Public Law 101-121 prohibits recipients of federal contracts, grants, and loans exceeding \$100,000 at any tier under a federal contract from using appropriated funds for lobbying the Executive or Legislative Branches of the federal government in connection with a specific contract, grant, or loan. Section 319 also requires each person who requests or receives a federal contract or grant in excess of \$100,000 to disclose lobbying.

No appropriated funds may be expended by the recipient of a federal contract, loan, or cooperative agreement to pay any person for influencing or attempting to influence an officer or employee of any federal executive department or agency as well as any independent regulatory commission or government corporation, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any of the following covered federal actions: the awarding of any federal contract, the making of any federal grant, the making of any federal loan the entering into of any cooperative agreement and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.

As a recipient of a federal grant exceeding \$100,000, NCTCOG requires its subcontractors of that grant to file a certification, set forth in Appendix B.1, that neither the agency nor its employees have made, or will make, any payment prohibited by the preceding paragraph.

Subcontractors are also required to file with NCTCOG a disclosure form, set forth in Appendix B.2, if the subcontractor or its employees have made or have agreed to make any payment using nonappropriated funds (to include profits from any federal action), which would be prohibited if paid for with appropriated funds.

**LOBBYING CERTIFICATION
FOR CONTRACTS, GRANTS, LOANS, AND COOPERATIVE AGREEMENTS**

The undersigned certifies, to the best of his or her knowledge or belief, that:

1. No federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an officer or employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal loan, the entering into of any cooperative Contract, and the extension, continuation, renewal, amendment, or modification or any federal contract, grant, loan, or cooperative contract; and
2. If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, and or cooperative contract, the undersigned shall complete and submit Standard Form – LLL, “Disclosure Form to Report Lobbying”, in accordance with the instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers and that all sub-recipients shall certify accordingly.

Name of Organization/Contractor(s):

FedTec, LLC

Signature of Authorized Representative:

Parminder Kaur

Digitally signed by Parminder Kaur
Date: 2025.01.08 19:18:33 +05'30'

Date: **Jan 8, 2025**

Attachment V

ATTACHMENT V: DRUG-FREE WORKPLACE CERTIFICATION

The FedTec, LLC (company name) will provide a Drug Free Work Place in compliance with the Drug Free Work Place Act of 1988. The unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited on the premises of the FedTec, LLC (company name) or any of its facilities. Any employee who violates this prohibition will be subject to disciplinary action up to and including termination. All employees, as a condition of employment, will comply with this policy.

CERTIFICATION REGARDING DRUG-FREE WORKPLACE

This certification is required by the Federal Regulations Implementing Sections 5151-5160 of the Drug-Free Workplace Act, 41 U.S.C. 701, for the Department of Agriculture (7 CFR Part 3017), Department of Labor (29 CFR Part 98), Department of Education (34 CFR Parts 85, 668 and 682), Department of Health and Human Services (45 CFR Part 76).

The undersigned subcontractor certifies it will provide a drug-free workplace by:

Publishing a policy Proposal notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the workplace and specifying the consequences of any such action by an employee;

Establishing an ongoing drug-free awareness program to inform employees of the dangers of drug abuse in the workplace, the subcontractor’s policy of maintaining a drug-free workplace, the availability of counseling, rehabilitation and employee assistance programs, and the penalties that may be imposed on employees for drug violations in the workplace;

Providing each employee with a copy of the subcontractor’s policy Proposal;

Notifying the employees in the subcontractor’s policy Proposal that as a condition of employment under this subcontract, employees shall abide by the terms of the policy Proposal and notifying the subcontractor in writing within five days after any conviction for a violation by the employee of a criminal drug abuse statute in the workplace;

Notifying the Board within ten (10) days of the subcontractor’s receipt of a notice of a conviction of any employee; and,

Taking appropriate personnel action against an employee convicted of violating a criminal drug statute or requires such employee to participate in a drug abuse assistance or rehabilitation program.

Name of Organization/Contractor(s):

FedTec, LLC

Signature of Authorized Representative:

Parminder Kaur Digitally signed by Parminder Kaur
Date: 2025.01.08 19:23:12 +0530'

Date: Jan 8, 2025

Attachment VI

**ATTACHMENT VI: DISCLOSURE OF CONFLICT OF INTEREST
CERTIFICATION REGARDING DISCLOSURE OF CONFLICT OF INTEREST**

The undersigned certifies that, to the best of his or her knowledge or belief, that:

“No employee of the contractor, no member of the contractor’s governing board or body, and no person who exercises any functions or responsibilities in the review or approval of the undertaking or carrying out of this contract shall participate in any decision relating to this contract which affects his/her personal pecuniary interest.

Executives and employees of contractor shall be particularly aware of the varying degrees of influence that can be exerted by personal friends and associates and, in administering the contract, shall exercise due diligence to avoid situations which give rise to an assertion that favorable treatment is being granted to friends and associates. When it is in the public interest for the contractor to conduct business with a friend or associate of an executive or employee of the contractor, an elected official in the area or a member of the North Central Texas Council of Governments, a permanent record of the transaction shall be retained.

Any executive or employee of the contractor, an elected official in the area or a member of the NCTCOG, shall not solicit or accept money or any other consideration from a third person, for the performance of an act reimbursed in whole or part by contractor or Department. Supplies, tools, materials, equipment or services purchased with contract funds shall be used solely for purposes allowed under this contract. No member of the NCTCOG shall cast a vote on the provision of services by that member (or any organization which that member represents) or vote on any matter which would provide a direct or indirect financial benefit to the member or any business or organization which the member directly represents”.

No officer, employee or paid consultant of the contractor is a member of the NCTCOG.

No officer, manager or paid consultant of the contractor is married to a member of the NCTCOG.

No member of NCTCOG directly owns, controls or has interest in the contractor.

The contractor has disclosed any interest, fact, or circumstance that does or may present a potential conflict of interest.

No member of the NCTCOG receives compensation from the contractor for lobbying activities as defined in Chapter 305 of the Texas Government Code.

Should the contractor fail to abide by the foregoing covenants and affirmations regarding conflict of interest, the contractor shall not be entitled to the recovery of any costs or expenses incurred in relation to the contract and shall immediately refund to the North Central Texas Council of Governments any fees or expenses that may have been paid under this contract and shall further be liable for any other costs incurred or damages sustained by the NCTCOG as it relates to this contract.

Name of Organization/Contractor(s):

FedTec, LLC

Signature of Authorized Representative:

Parminder Kaur

Digitally signed by Parminder Kaur
Date: 2025.01.08 19:26:19 +05'30'

Date: **Jan 8, 2025**

CONFLICT OF INTEREST QUESTIONNAIRE For vendor doing business with local governmental entity		FORM CIQ
<p>This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session. This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).</p> <p>By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.</p> <p>A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.</p>	OFFICE USE ONLY Date Received	
1 Name of vendor who has a business relationship with local governmental entity. N/A		
2 <input type="checkbox"/> Check this box if you are filing an update to a previously filed questionnaire. (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)		
3 Name of local government officer about whom the information is being disclosed. <div style="text-align: center; border-bottom: 1px solid black; width: 80%; margin: 0 auto;"> Name of Officer </div>		
4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.		
A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?		
<input type="checkbox"/> Yes <input type="checkbox"/> No		
B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?		
<input type="checkbox"/> Yes <input type="checkbox"/> No		
5 Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.		
6 <input type="checkbox"/> Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).		
7	Parminder Kaur <small>Digitally signed by Parminder Kaur Date: 2025.01.08 19:26:56 +05'30'</small> _____ <small>Signature of vendor doing business with the governmental entity</small>	1/8/25 _____ <small>Date</small>

**CONFLICT OF INTEREST QUESTIONNAIRE
For vendor doing business with local governmental entity**

A complete copy of Chapter 176 of the Local Government Code may be found at <http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm>. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

- (A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;
- (B) a transaction conducted at a price and subject to terms available to the public; or
- (C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

(2) the vendor:

- (A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that
 - (i) a contract between the local governmental entity and vendor has been executed;
 - or
 - (ii) the local governmental entity is considering entering into a contract with the vendor;
- (B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than \$100 in the 12-month period preceding the date the officer becomes aware that:
 - (i) a contract between the local governmental entity and vendor has been executed; or
 - (ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

- (1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);
- (2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or
- (3) has a family relationship with a local government officer of that local governmental entity.

(a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

- (1) the date that the vendor:
 - (A) begins discussions or negotiations to enter into a contract with the local governmental entity; or
 - (B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or
- (2) the date the vendor becomes aware:
 - (A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);
 - (B) that the vendor has given one or more gifts described by Subsection (a); or
 - (C) of a family relationship with a local government officer.

Attachment VII

ATTACHMENT VII: CERTIFICATION OF FAIR BUSINESS PRACTICES

That the submitter has not been found guilty of unfair business practices in a judicial or state agency administrative proceeding during the preceding year. The submitter further affirms that no officer of the submitter has served as an officer of any company found guilty of unfair business practices in a judicial or state agency administrative during the preceding year.

Name of Organization/Contractor(s):

FedTec, LLC

Signature of Authorized Representative:

Parminder Kaur

Digitally signed by Parminder Kaur
Date: 2025.01.08 19:29:54 +05'30'

Date: Jan 8, 2025

ATTACHMENT VIII

**ATTACHMENT VIII: CERTIFICATION OF GOOD STANDING
TEXAS CORPORATE FRANCHISE TAX CERTIFICATION**

Pursuant to Article 2.45, Texas Business Corporation Act, state agencies may not contract with for profit corporations that are delinquent in making state franchise tax payments. The following certification that the corporation entering into this offer is current in its franchise taxes must be signed by the individual authorized on Form 2031, Corporate Board of Directors Resolution, to sign the contract for the corporation.

The undersigned authorized representative of the corporation making the offer herein certified that the following indicated Proposal is true and correct and that the undersigned understands that making a false Proposal is a material breach of contract and is grounds for contract cancellation.

Indicate the certification that applies to your corporation:

The Corporation is a for-profit corporation and certifies that it is not delinquent in its franchise tax payments to the State of Texas.

The Corporation is a non-profit corporation or is otherwise not subject to payment of franchise taxes to the State of Texas.

Type of Business (if not corporation):

Sole Proprietor

Partnership

Other

Pursuant to Article 2.45, Texas Business Corporation Act, the North Central Texas Council of Governments reserves the right to request information regarding state franchise tax payments.

Parminder Kaur, Director

(Printed/Typed Name and Title of Authorized Representative)



Signature

Parminder
Date: Kaur

Digitally signed by
Parminder Kaur
Date: 2025.01.08 20:30:14
+05'30'

Attachment IX

**ATTACHMENT IX: HISTORICALLY UNDERUTILIZED BUSINESSES,
MINORITY OR WOMEN-OWNED OR DISADVANTAGED BUSINESS ENTERPRISES**

Historically Underutilized Businesses (HUBs), minority or women-owned or disadvantaged businesses enterprises (M/W/DBE) are encouraged to participate in the solicitation process.

NCTCOG recognizes the certifications of most agencies. HUB vendors must submit a copy of their certification for consideration during the evaluation of their proposal. Please attach the copy to this form. This applies only to the Offeror and not a subcontractor.

Texas vendors who are not currently certified are encouraged to contact either the Texas United Certification Program, State of Texas HUB Program, or the North Central Texas Regional Certification Agency, among others. Contact:

State of Texas HUB Program
Texas Comptroller of Public Accounts
Lyndon B. Johnson State Office Building
111 East 17th Street
Austin, Texas 78774
(512) 463-6958
<http://www.window.state.tx.us/procurement/prog/hub/>

North Central Texas Regional Certification Agency
624 Six Flags Drive, Suite 100
Arlington, TX 76011
(817) 640-0606
<http://www.nctrca.org/certification.html>

Texas United Certification Program
USDOT website at
<https://www.transportation.gov/DBE>

You must include a copy of your certification document as part of this solicitation to receive points in the evaluation.

Vendor to Sign Below to Attest to Validity of Certification:

FedTec, LLC

Vendor Name

Parminder Kaur Digitally signed by Parminder Kaur
Date: 2025.01.13 21:53:59 +05'30'

Authorized Signature

Parminder Kaur

Typed Name

Jan 8, 2025

Date

Not applicable.

COMMONWEALTH OF VIRGINIA



DEPARTMENT OF SMALL BUSINESS & SUPPLIER DIVERSITY

101 N. 14th Street, 11th Floor
Richmond, VA 23219

FEDTEC, LLC.

is a certified Small, Women Owned, Minority Owned Business meeting all the eligibility requirements set forth under the Code of Virginia Section 2.2-16.1 et seq. and Administrative Code 7VAC 13-20 et seq.

Certification Number: 696996
Valid Through: Nov 17, 2027

Accordingly Certified

Willis A. Morris

Willis A. Morris, Director



Attachment X

NCTCOG Federal and State Of Texas Required Procurement Provisions

**ATTACHMENT X: NCTCOG FEDERAL AND STATE OF TEXAS
REQUIRED PROCUREMENT PROVISIONS**

The following provisions are mandated by Federal and/or State of Texas law. Failure to certify to the following will result in disqualification of consideration for contract. Entities or agencies that are not able to comply with the following will be ineligible for consideration of contract award.

**PROHIBITED TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT
CERTIFICATION**

This Contract is subject to the Public Law 115-232, Section 889, and 2 Code of Federal Regulations (CFR) Part 200, including §200.216 and §200.471, for prohibition on certain telecommunications and video surveillance or equipment. Public Law 115-232, Section 889, identifies that restricted telecommunications and video surveillance equipment or services (e.g., phones, internet, video surveillance, cloud servers) include the following:

- A) Telecommunications equipment that is produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliates of such entities).
- B) Video surveillance and telecommunications equipment produced by Hytera Communications Corporations, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliates of such entities).
- C) Telecommunications or video surveillance services used by such entities or using such equipment.
- D) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, Director of the National Intelligence, or the Director of the Federal Bureau of Investigation reasonably believes to be an entity owned or controlled by the government of a covered foreign country. The entity identified below, through its authorized representative, hereby certifies that no funds under this Contract will be obligated or expended to procure or obtain telecommunication or video surveillance services or equipment or systems that use covered telecommunications equipment or services as a substantial or essential component of any system, or as a critical technology as part of any system prohibited by 2 CFR §200.216 and §200.471, or applicable provisions in Public Law 115-232 Section 889.

The Contractor or Subrecipient hereby certifies that it does comply with the requirements of 2 CFR §200.216 and §200.471, or applicable regulations in Public Law 115-232 Section 889.

SIGNATURE OF AUTHORIZED PERSON:	Parminder Kaur	Digitally signed by Parminder Kaur Date: 2025.01.08 20:35:35 +05'30'
NAME OF AUTHORIZED PERSON:	Parminder Kaur	
NAME OF COMPANY:	FedTec, LLC	
DATE:	Jan 8, 2025	

-OR-

The Contractor or Subrecipient hereby certifies that it cannot comply with the requirements of 2 CFR §200.216 and §200.471, or applicable regulations in Public Law 115-232 Section 889.

SIGNATURE OF AUTHORIZED PERSON:	_____
NAME OF AUTHORIZED PERSON:	_____
NAME OF COMPANY:	_____
DATE:	_____

Discrimination Against Firearms Entities Or Firearms Trade Associations

DISCRIMINATION AGAINST FIREARMS ENTITIES OR FIREARMS TRADE ASSOCIATIONS

This contract is subject to the Texas Local Government Code chapter 2274, Subtitle F, Title 10, prohibiting contracts with companies who discriminate against firearm and ammunition industries. TLGC chapter 2274, Subtitle F, Title 10, identifies that “discrimination against a firearm entity or firearm trade association” includes the following:

- A) means, with respect to the entity or association, to:
 - I. refuse to engage in the trade of any goods or services with the entity or association based solely on its status as a firearm entity or firearm trade association; and
 - II. refrain from continuing an existing business relationship with the entity or association based solely on its status as a firearm entity or firearm trade association; or
 - III. terminate an existing business relationship with the entity or association based solely on its status as a firearm entity or firearm trade association.

- B) An exception to this provision excludes the following:
 - I. contracts with a sole-source provider; or
 - II. the government entity does not receive bids from companies who can provide written verification.

The entity identified below, through its authorized representative, hereby certifies that they have no practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association; and that they will not discriminate during the term of the contract against a firearm entity or firearm trade association as prohibited by Chapter 2274, Subtitle F, Title 10 of the Texas Local Government Code.

The Contractor or Subrecipient hereby certifies that it does comply with the requirements of Chapter 2274, Subtitle F, Title 10.

SIGNATURE OF AUTHORIZED PERSON:	<u>Parminder Kaur</u> <small>Digitally signed by Parminder Kaur Date: 2025.01.08 21:04:22 +05'30'</small>
NAME OF AUTHORIZED PERSON:	<u>Parminder Kaur</u>
NAME OF COMPANY:	<u>FedTec, LLC</u>
DATE:	<u>1/8/25</u>

-OR-

The Contractor or Subrecipient hereby certifies that it cannot comply with the requirements of Chapter 2274, Subtitle F, Title 10.

SIGNATURE OF AUTHORIZED PERSON:	_____
NAME OF AUTHORIZED PERSON:	_____
NAME OF COMPANY:	_____
DATE:	_____

Boycotting of Certain Energy Companies

BOYCOTTING OF CERTAIN ENERGY COMPANIES

This contract is subject to the Texas Local Government Code chapter 809, Subtitle A, Title 8, prohibiting contracts with companies who boycott certain energy companies.

TLGC chapter Code chapter 809, Subtitle A, Title 8, identifies that “boycott energy company” means, without an ordinary business purpose, refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations with a company because the company:

- I. engages in the exploration, production, utilization, transportation, sale, or manufacturing of fossil fuel-based energy and does not commit or pledge to meet environmental standards beyond applicable federal and state law; and
- II. does business with a company described by paragraph (I).

The entity identified below, through its authorized representative, hereby certifies that they do not boycott energy companies, and that they will not boycott energy companies during the term of the contract as prohibited by Chapter 809, Subtitle A, Title 8 of the Texas Local Government Code.

The Contractor or Subrecipient hereby certifies that it does comply with the requirements of Chapter 809, Subtitle A, Title 8.

SIGNATURE OF AUTHORIZED PERSON: Parminder Kaur Digitally signed by Parminder Kaur
Date: 2025.01.08 21:06:20 +05'30'

NAME OF AUTHORIZED PERSON: Parminder Kaur

NAME OF COMPANY: FedTec, LLC

DATE: 1/8/25

-OR-

The Contractor or Subrecipient hereby certifies that it cannot comply with the requirements of Chapter 809, Subtitle A, Title 8.

SIGNATURE OF AUTHORIZED PERSON: _____

NAME OF AUTHORIZED PERSON: _____

NAME OF COMPANY: _____

DATE: _____

Exhibit 1

EXHIBIT 1: SERVICE DESIGNATION AREAS

Texas Service Area Designation or Identification			
Proposing Firm Name:			
Notes:		Indicate in the appropriate box whether you are proposing to service the entire state of Texas	
		Will service the entire state of Texas	Will not service the entire state of Texas
		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>If you are not proposing to service the entire state of Texas, designate on the form below the regions that you are proposing to provide goods and/or services to. By designating a region or regions, you are certifying that you are willing and able to provide the proposed goods and services.</p>			
Item	Region	Metropolitan Statistical Areas	Designated Service Area
1.	North Central Texas	16 counties in the Dallas-Fort Worth Metropolitan area	
2.	High Plains	Amarillo Lubbock	
3.	Northwest	Abilene Wichita Falls	
4.	Upper East	Longview Texarkana, TX-AR Metro Area Tyler	
5.	Southeast	Beaumont-Port Arthur	
6.	Gulf Coast	Houston-The Woodlands-Sugar Land	
7.	Central Texas	College Station-Bryan Killeen-Temple Waco	
8.	Capital Texas	Austin-Round Rock	
9.	Alamo	San Antonio-New Braunfels Victoria	
10.	South Texas	Brownsville-Harlingen Corpus Christi Laredo McAllen-Edinburg-Mission	
11.	West Texas	Midland Odessa San Angelo	
12.	Upper Rio Grande	El Paso	

(Exhibit 1 continued on next page)

(Exhibit 1 continued)

Nationwide Service Area Designation or Identification Form			
Proposing Firm Name:			
Notes:		Indicate in the appropriate box whether you are proposing to provide service to all Fifty (50) States.	
		Will service all fifty (50) states	Will not service fifty (50) states
		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>If you are not proposing to service to all fifty (50) states, then designate on the form below the states that you will provide service to. By designating a state or states, you are certifying that you are willing and able to provide the proposed goods and services in those states.</p> <p>If you are only proposing to service a specific region, metropolitan statistical area (MSA), or City in a State, then indicate as such in the appropriate column box.</p>			
Item	State	Region/MSA/City (write "ALL" if proposing to service entire state)	Designated as a Service Area
1.	Alabama		
2.	Alaska		
3.	Arizona		
4.	Arkansas		
5.	California		
6.	Colorado		
7.	Connecticut		
8.	Delaware		
9.	Florida		
10.	Georgia		
11.	Hawaii		
12.	Idaho		
13.	Illinois		
14.	Indiana		
15.	Iowa		
16.	Kansas		
17.	Kentucky		
18.	Louisiana		
19.	Maine		
20.	Maryland		

21.	Massachusetts		
22.	Michigan		
23.	Minnesota		
24.	Mississippi		
25.	Missouri		
26.	Montana		
27.	Nebraska		
28.	Nevada		
29.	New Hampshire		
30.	New Jersey		
31.	New Mexico		
32.	New York		
33.	North Carolina		
34.	North Dakota		
35.	Ohio		
36.	Oregon		
37.	Oklahoma		
38.	Pennsylvania		
39.	Rhode Island		
40.	South Carolina		
41.	South Dakota		
42.	Tennessee		
43.	Texas		
44.	Utah		
45.	Vermont		
46.	Virginia		
47.	Washington		
48.	West Virginia		
49.	Wisconsin		
50.	Wyoming		

End of Exhibit 1