1/12/2025

AI Consulting Services for Public Sector

Bid RFP #2025-023
Artificial Intelligence (AI)
Consultancy Services

Fuchsia Services, Inc
Doing Business as Fushiaa
www.fushiaa.com

Vijayalakshmi Rajaramanan
Founder, CEO,
Fuchsia Services Inc

Fuchsia Services, Inc AI Consulting Capability Statement

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Introduction

Fuchsia Services, Inc.(DBA Fushiaa), here on referred as Fushiaa empowers public sector organizations to harness the transformative potential of Artificial Intelligence (AI) while navigating the complex landscape of governance, compliance, and quality assurance. We specialize in delivering expert AI consulting and services, with a focus on healthcare and cybersecurity, ensuring responsible and ethical AI adoption for the benefit of citizens.

- Fushiaa is a growing, niche boutique IT services firm delivering high-end, tailored solutions in Healthcare and Cybersecurity. We specialize in data engineering, digital cloud transformations, and AI-driven strategies, thus empowering our clients with innovative technologies to Enhance Compliance, Secure Sensitive Data, and Drive Operational Excellence. With a commitment to precision and a deep understanding of industry-specific challenges, Fushiaa stands as a trusted partner for organizations navigating complex IT landscapes.
- Partner Awards from Market Leaders in CyberSecurity , Data Engineering and AI
- Registered Federal Contractor eligible for all awards.
- Woman Owned Small Business Certification by SBA.gov
- Minority Business Enterprise and HUB (Historically Underutilized Business) Certification by the National Minority Supplier Development Council

Our customers include large Insurance Payor, High Tech Consulting Companies, and IT Service Providers

We have partnership awards from Microsoft as AI Cloud Partner, Services Partnership from Splunk Corp, Palo Alto Networks, Databricks and Snowflake Corporations.

Domain Focus

Healthcare AI: We help public health agencies leverage AI to improve healthcare access, predict disease outbreaks, optimize resource allocation, and enhance patient outcomes. Our solutions are designed to address the unique challenges of public health, including data privacy, equity, and accessibility.

Cybersecurity AI: We assist government agencies in strengthening their cybersecurity posture with AI-powered threat detection, vulnerability assessment, and incident response. Our solutions help safeguard critical infrastructure and sensitive data from evolving cyber threats.

AI Governance, Compliance, and QA

- Fuchsia Services Inc. goes beyond simply delivering AI solutions. We are committed to responsible AI development and deployment, ensuring your organization meets the highest standards of governance, compliance, and quality assurance. Our services include:
- **AI Governance Frameworks:** Develop and implement comprehensive AI governance frameworks tailored to your organization's specific needs and regulatory requirements.
- **Compliance Audits and Assessments:** Conduct thorough audits and assessments to ensure your AI systems comply with relevant laws, regulations, and ethical guidelines.
- **AI Quality Assurance:** Implement rigorous testing and validation processes to ensure the accuracy, reliability, and fairness of your AI solutions.
- **Bias Mitigation and Explainability**: Identify and mitigate potential biases in AI algorithms and ensure transparency and explainability in AI decision-making.

Fuchsia Services, Inc AI Consulting Capability Statement

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Exec Summary: Why Fushiaa

- Deep Non-Profit Healthcare AI Consulting and Delivery Experience in highly regulated industries- We understand the unique challenges and opportunities of the public sector, with a proven track record of successful AI implementations in government agencies.
- Multidisciplinary Team- Our team comprises experienced data scientists, AI engineers, healthcare professionals, cybersecurity experts ensuring a holistic approach to your AI initiatives.
- Focus on Ethical AI-We are committed to developing and deploying AI solutions that are ethical, unbiased, and transparent, promoting trust and accountability.
- Tailored Solutions- High Touch Approach within your organization to understand your specific needs and deliver customized AI solutions that align with your goals and priorities.

Our customers partner with us to

- Unlock the full potential of AI in healthcare and cybersecurity.
- Navigate the complexities of AI governance, compliance, and QA.
- Build trust and confidence in your AI solutions.
- Deliver better outcomes for citizens.

Key Personnel and References

Viji Rajaramanan (Resume Attached)

- **AI Consulting Expertise:** Delivered strategic AI consulting services to **Blue Cross Blue Shield (BCBS)**, focusing on implementing Responsible AI practices and ensuring compliance with regulatory frameworks like NIST AI RMF. Spearheaded initiatives to optimize healthcare operations through ethical AI solutions.
- **Business Development & Certifications:** Successfully built Fushiaa into a recognized niche player in cybersecurity and AI governance. Secured certifications from the **U.S. Small Business Administration (SBA)** and the **National Minority Supplier Development Council (NMSDC)**, enhancing the company's credibility and expanding market opportunities.
- **Strategic Leadership:** Led Fushiaa in establishing key industry partnerships, obtaining Microsoft AI Cloud Partner status, and driving client-centric innovation. Positioned the company for growth in healthcare and financial services through targeted consulting offerings.

Nikhil Joshi (Resume Attached)

Industry Expertise

Banking, Capital Markets, Insurance, Healthcare, Manufacturing

Technology Expertise

- Artificial Intelligence (AI), AI Governance
- Machine Learning (ML)
- Cloud Computing
- Data Analytics & Visualization
- Big Data Technologies
- Cybersecurity
- Enterprise Resource Planning (ERP)
- Customer Relationship Management (CRM)
- IT Service Management (ITSM)
- Product Management
- Application Development & Maintenance
- Quality Engineering
- Test Automation
- Performance & Reliability
- Site Reliability Engineering (SRE)
- DevOps & Agile Practices

Domain Expertise **Functional Expertise**

Professional Experience

Entrepreneurial technology leader with over twenty-five years experience steering comprehensive digital and technology initiatives as an independent consultant at JoDha Solutions (2023-Present), NTT DATA (2015-2023) and Capgemini (2001-2014). Demonstrated proficiency in aligning IT strategy with business goals, leading enterprise IT transformation and fostering innovation.

- **AI Risk Management and Safety:** Lead AI governance and risk management efforts, ensuring technologies are developed and deployed safely, minimizing societal-scale risks.
- **Data Governance and Security:** Develop and enforce data governance frameworks, ensuring data integrity, security, and alignment with AI safety protocols.
- **Digital Transformation and Innovation**: Drive digital transformation initiatives, integrating AI/ML to enhance efficiency, scalability, and safety, while maintaining ethical standards.
- **Policy and Advocacy in AI:** Advocate for and influence AI policy, ensuring regulatory compliance and promoting ethical, safe AI practices within organizations.
- **Leadership in Technology Strategy and Operations:** Oversee technology operations and strategic planning, aligning innovation with organizational goals for safety, ethics, and responsible AI use.

ML Engineers

Nayan Dixit

- An innovative and highly skilled AI Integration Developer with significant professional experience across AI development, data engineering, and software engineering. Currently contributing to cutting-edge generative AI solutions at Edelson PC, delivering a 40% reduction in research time and enhancing operational efficiency through advanced AI tools and frameworks.
- Expert in designing and implementing state-of-the-art AI applications, leveraging technologies like LangChain, vector databases, GPT-4, Claude 2, and Llama 2 to create bespoke solutions. Proficient in cloud platforms (AWS, Azure, GCP), machine learning libraries (PyTorch,

TensorFlow), and full-stack development frameworks (Flask, FastAPI). Demonstrates a proven ability to streamline workflows, automate processes, and derive actionable insights through robust data pipelines and APIs.

- Holds a Master of Science in Computer Science from the University of Central Missouri, with a 3.7 GPA, and a strong academic foundation complemented by practical experience in industries including legal tech, telecommunications, and healthcare. Adept at harnessing generative AI and advanced analytics to drive impactful business outcomes.

Navya Ramesh

- A versatile and accomplished Machine Learning Engineer with over six years of experience in computational science, generative AI, and advanced machine learning solutions.
- Proven expertise in developing innovative models and algorithms for drug discovery, leveraging cutting-edge techniques like GANs, transformer networks, and graph neural networks to enhance efficiency and accuracy.
- Successfully led projects resulting in 75% improvements in compound discovery and contributed to scientific advancements through patents and published research.
- Skilled in cheminformatics, computational biology, and fine-tuning large language models (LLMs), with a strong focus on applications in the healthcare and life sciences sectors.
- Demonstrated success in deploying diffusion models for structural prediction and adapting pre-trained LLMs for ADMET property predictions.
- Adept at integrating NLP pipelines and scalable machine learning systems, achieving tenfold efficiency improvements in data processing workflows.
- Holds a Master of Science in Electrical and Computer Engineering from Michigan State University and a Bachelor's in Electronics and Communication Engineering from PES University.
- Recognized for academic and professional excellence through awards and publications, with a passion for leveraging AI and computational tools to solve complex scientific challenges.

Saketh Dachepally

- Saketh Kumar Dachepally is a skilled professional with a strong academic foundation and diverse work experience in business analytics and AI.
- His professional journey includes roles such as AI Engineer Intern at Fushiaa, where he automated workflows, developed a Google Chatbot, and implemented metadata indexing for model pipelines, and as a Graduate Intern at Trellix, where he built LLM-powered chatbots and optimized database APIs.
- At Everest Group, he designed efficient backend systems, created data visualization dashboards, and deployed RESTful APIs.
- At Capgemini, Saketh developed SaaS solutions, managed CI/CD pipelines, and improved backend workflows, earning recognition for his innovative contributions. He has led impactful projects, including a job portal with resume parsing, predictive models for credit card upselling, and cryptocurrency forecasting using sentiment analysis.
- Proficient in Python, SQL, Django, Tableau, and various ML libraries, he combines technical expertise with hands-on experience in cloud computing and database management. Saketh has also achieved notable accomplishments, such as a GMAT score of 730 (top 3% globally) and AWS Cloud Practitioner certification.

Technical Delivery Experience References

Reference Contact Info	Client and Delivered Service
Largest Insurance Payor in Arkansas ABCBS Arkansas Blue Cross Blue Shield 610 Gaines Street, Little Rock PO Box 2181, Little Rock AR- 72203	• SDLC Update for AI Intake • AI Policies on Data Privacy, Security and Acceptable Use • AI Process and Workflow • AI Impact Assessment Questionnaire, Model Card, and Other Templates • Implementation of Framework to existing use cases • QA for AI or Validation of AI services
3Cloud Consulting Fastest Growing Azure Consulting Partner Contact: 3Cloud Consulting 3025 Highland Parkway Downers Grove, IL 60515	• Provide Expert Staffing Resources in Cloud, Data Engineering, AI, and ML Engineering Operations • Supplement Staff in Non-Core Staffing Requirements
Leap Metrics- Care Management Platform Leap Metrics 1201 W 15th Place, Plano TX 75075	• Delivered Virtual CISO Services to Internally Audit their AI ML Systems to satisfy NIST AI RMF Requirements • Provided Automation Services for Data Engineering Upload from source systems into Sevida Application
Mastek Limited – IT Services Company Mastek Limited 15601 Dallas Pkwy, #250 Addison, TX 75001	• Deliver content for acceptable use of AI training, training the trainers. • Master Services Agreement in place to deliver AI Consulting, AI Governance and AI Compliance Services

Technical Proposal Methodology Abstract

Fuchsia Services, Inc AI Consulting Capability Statement

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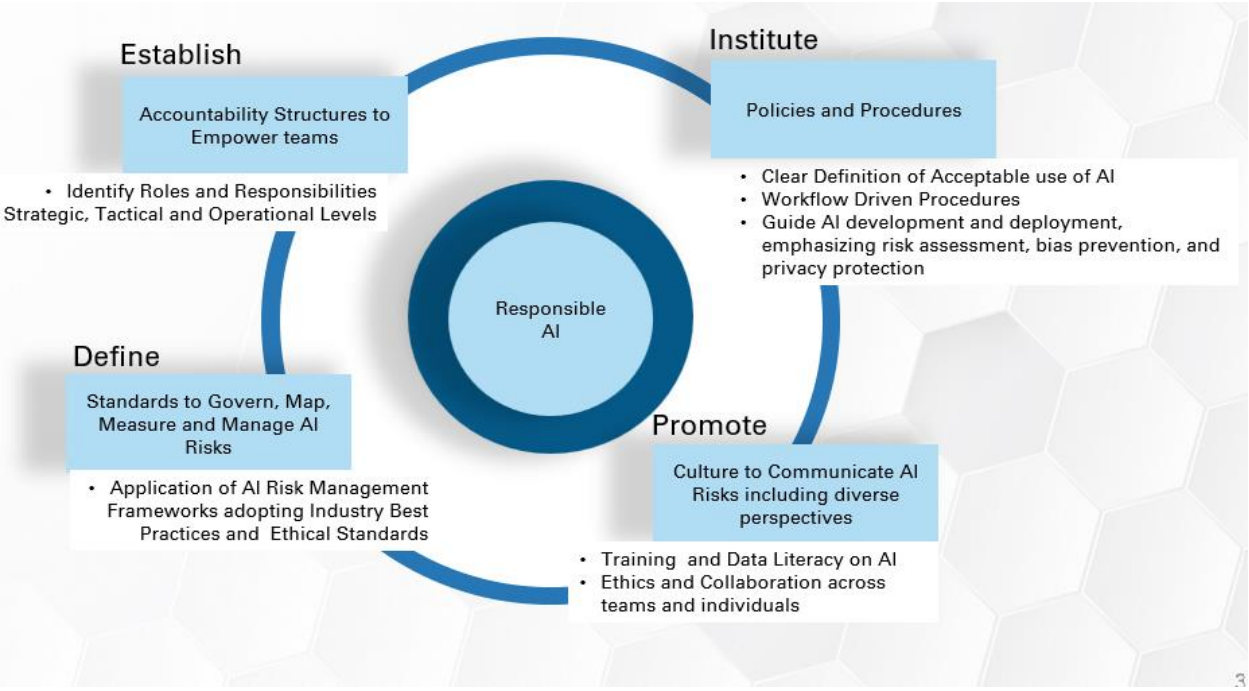
The Responsible and Secure AI Charter



We deliver AI Services with a commitment to Responsible and Ethical AI by educating and implementing the Responsible AI Charter. This charter guides organizational efforts in setting standards, defining accountability structures, and fostering a culture that prioritizes ethical AI development across the organization. We will focus on managing AI risks, preventing bias in our algorithms, and protecting the privacy of our members' data.

- We Establish the Accountability Structures, Roles, and Responsibilities Required for Strategic, Tactical and Operational AI
- We Institute the Required Policies, Procedures, process, workflows, cadences, templates to clearly define AI and AI Risk Management
- We help Promote the Culture to Adopt AI with required Training and Literacy around AI cutting out the noise, while ensuring ethics and collaboration across teams and structures
- We leverage Standard Risk Management Frameworks to adopt Industry Best Practices and standards to ensure the Enterprise aligns with best-in-class AI Implementation
- We are a high-touch boutique consulting company, deeply embedded with client organizations to deliver high quality AI consulting, amidst the fast-moving pace of change in AI.

Key Components of The AI Charter

- Identifying and integrating core principles like fairness, transparency, and accountability into our AI practices.
- Embedding these Responsible and Secure AI principles into our existing and future policies.
- Engaging with both internal and external stakeholders to ensure alignment with broader ethical standards and expectations.

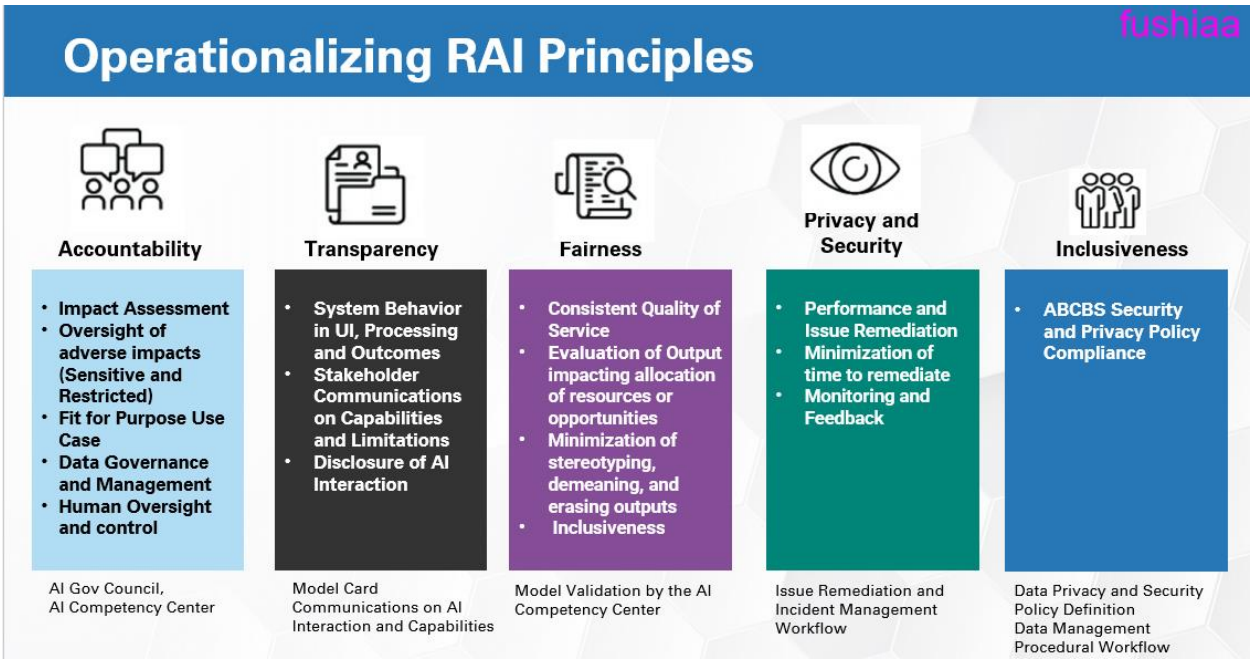
- Conducting regular risk assessments to proactively identify and mitigate potential biases and discriminatory outcomes.
- Tracking our compliance with industry regulations and standards like the NIST AI Risk Management Framework.
- Establish clear performance metrics to measure the effectiveness of our RAI initiatives.

The RAI (Responsible AI) Principles

To put these principles into practice, we conduct impact assessments, ensure human oversight of AI systems, and prioritize data governance. We also communicate transparently about the capabilities and limitations of our AI systems and ensure consistent quality of service.

Fushiaa develops and deploys AI solutions that are accountable, transparent, fair, and inclusive, while respecting privacy and security. This commitment to RAI will guide our efforts as we continue to innovate and leverage AI to better serve our members.

Our Methodology Starts with the Identification of the Risk Management Framework by the Enterprise or IT Risk Office. Standards in Healthcare are HITRUST and NIST.



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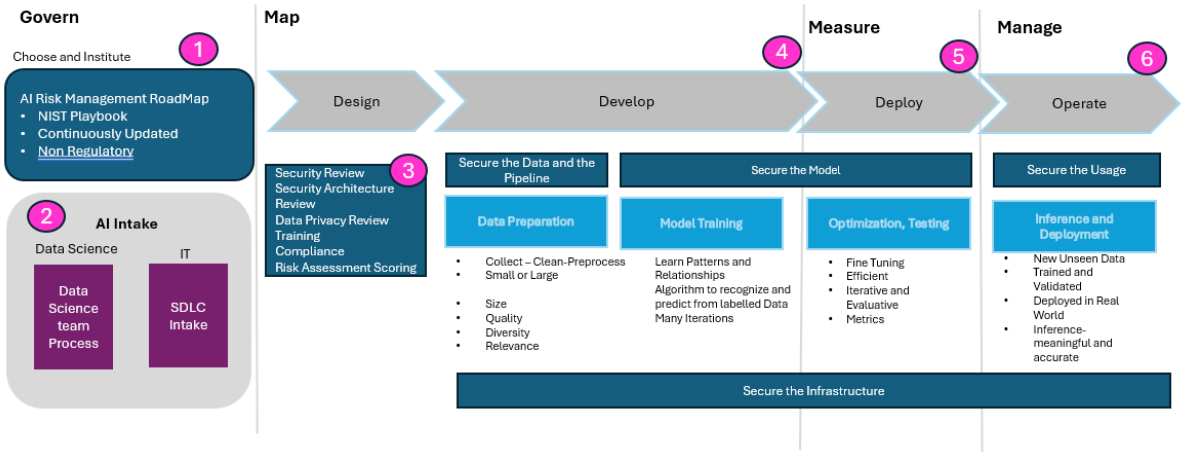
Core Consulting Methodology



We have a 6 step Process to Deliver AI Consulting Across Organizations

1. Choose and Institute AI RMF

Workshop to Choose and Institute the AI RMF of Choice: Audience Includes Senior Leadership and Mid to Senior Management, Informing, Training on using Risk Scoring for AI

2. SDLC Update

- **Evaluate Current Practices** Understand the existing SDLC methodology and identify its strengths and weaknesses across each phase (requirements, design, development, testing, deployment, maintenance).
- **Ensure Compliance** Assess adherence to relevant industry regulations and standards, particularly important in healthcare.
- **Optimize Efficiency** Identify areas for improvement to streamline the development process and reduce costs.
- **Improve Quality** Make recommendations to enhance the quality of software produced through the SDLC.
- **Develop Roadmap** Create a strategic plan for implementing the recommended changes to optimize the SDLC for future development efforts.

3. Implement AI Review Assessments

- Establish a Security Review Board (SRB) process to assess AI solution security at different stages.
- Ensure the formation of a multidisciplinary team with defined roles for security and compliance reviews.
- Set up review cadences, deliverables, and documentation of findings.
- Implement a continuous assessment process for AI governance and compliance with security standards (e.g., NIST, ISO).
- Provide recommendations for remediation of identified risks and maintain ongoing oversight.

4. Develop AI Impact Assessment and Process

Delivered Services	Rule 1557: Specific to Healthcare Develop and implement initial policies and procedures to ensure compliance with Section 1557, focusing on non-discrimination in healthcare services, data-driven decision-making, and the integration of AI systems with human oversight. Development and implementation of remaining policies and procedures, ensuring all compliance requirements are met and mapped to NIST standards. Establish measurement frameworks to track compliance and performance.
Requirements	• Human in the Loop Establishing policies that ensure AI-driven decisions are subject to human review, preventing potential biases and ensuring alignment with non-discrimination requirements. • Initial Governance Defining and establishing the role of the governance council in overseeing compliance efforts and policy implementation. • Policy Completion: Finalizing all necessary policies and procedures to meet full compliance. • NIST Mapping: Ensuring that all policies are aligned with NIST standards, with clear mappings that demonstrate compliance. • Measurement Framework: Developing tools and processes to measure compliance effectiveness and identify areas for improvement.
Deliverables	• Human-in-the-Loop Policy A clear framework ensuring that all AI-driven decisions undergo human review to prevent bias and ensure fairness. • Governance Council Engagement Initial presentation and discussion of compliance strategies with the governance council, focusing on transparency and accountability. • Final Policies and Procedures: A complete set of policies and procedures covering all aspects of Section 1557 compliance. • NIST Compliance Map: A detailed mapping of all policies to NIST standards, including documentation of compliance measures. • Transparency Index: A system for measuring and reporting the transparency and effectiveness of compliance efforts, to be presented to the governance council. • All Templates for Successful Implementation

5. QA for AI

- Create Compliance Evidence and Conduct comprehensive risk assessments for each AI use case, considering ethical, legal, and operational risks.
- Develop mitigation strategies to address identified risks and ensure responsible AI implementation.
- Validate AI Methods and Measures with a Fushiaa proprietary accelerator tool to determine algorithmic bias and model drift.

6. Operationalize AI

Security Practices

- **Data Encryption:** End-to-end encryption for data in transit and at rest.
- **Authentication and Authorization:** Multi-factor authentication (MFA), role-based access control (RBAC).
- **Incident Response:** Well-documented and tested incident response plan.
- **Penetration Testing:** Regular testing to identify and address vulnerabilities.

- **Regulatory Compliance:** Adherence to relevant standards (e.g., SOC 2, ISO 27001, HIPAA, GDPR).

Privacy Management

- **Data Minimization:** Collect only necessary data and securely anonymize where possible.
- **Consent Mechanisms:** Transparent mechanisms for obtaining user consent.
- **User Data Access:** Allow users to review, export, or delete their data.
- **Third-Party Integrations:** Evaluation of third-party services for privacy risks.

AI Transparency

- **Explainability:** Clearly explain how AI models make decisions.
- **Model Lineage:** Track the development and deployment history of AI models.
- **Bias Detection:** Mechanisms to detect and mitigate biases in AI models.

Ethical AI Design

- **Fairness:** Evidence of fair AI practices across demographics.
- **Human Oversight**: Human-in-the-loop mechanisms for critical AI decision-making.
- **Avoidance of Harm:** Documented measures to prevent unintended harm from AI.

Compliance and Governance

- **NIST AI RMF Alignment:** Adherence to the NIST AI Risk Management Framework.
- **Global Standards:** Compliance with international AI frameworks (e.g., EU AI Act).
- **Audit Trails:** Comprehensive logging for auditing and accountability.

Robustness and Reliability

- **Stress Testing:** Regular testing to ensure system resilience under diverse conditions.
- **Error Handling:** Clear processes for identifying and mitigating errors.
- **Version Control:** Ensure version consistency and rollback mechanisms.

This comprehensive methodology enables our clients to achieve AI Implementation responsibly and securely.

Public Health AI Use Cases

Healthcare Access and Efficiency: Leveraging AI for the Residents of North Central Texas

Access to quality healthcare is a fundamental right, yet many regions, including North Central Texas, face challenges in ensuring equitable healthcare services for all residents. Factors such as population growth, geographic disparities, and limited resources can impede healthcare access and efficiency. Artificial Intelligence (AI) emerges as a transformative tool to address these challenges, offering innovative solutions to analyze healthcare data, predict trends, and optimize resource allocation. Fuchsia Services, Inc., with its expertise in AI Governance and Compliance consulting, is uniquely positioned to support the integration of these capabilities while ensuring ethical and responsible AI practices.

Identifying Areas with Limited Access to Care

AI-powered analytics can illuminate gaps in healthcare coverage by integrating and analyzing diverse datasets such as demographic information, geographic distribution of healthcare facilities, and socioeconomic indicators. For instance, machine learning models can identify regions within North Central Texas where residents experience longer travel times to medical facilities or lack access to specialized care. By overlaying maps with healthcare provider locations and patient density, AI systems

can highlight underserved areas. These insights empower policymakers to strategically allocate resources, such as establishing new clinics or incentivizing healthcare providers to practice in rural or underserved urban areas.

Fuchsia Services ensures that such analytics are implemented responsibly, with strong governance frameworks to mitigate biases in data and algorithms. By providing comprehensive compliance consulting aligned with NIST AI Risk Management Framework (AI RMF), Fuchsia ensures that these solutions adhere to ethical standards and regulatory requirements, fostering trust among stakeholders.

Predicting Disease Outbreaks

North Central Texas, like many regions, faces periodic challenges from infectious disease outbreaks, seasonal illnesses, and chronic disease management. AI-driven predictive models can analyze historical data, environmental factors, and real-time health reports to forecast potential outbreaks. For example, machine learning algorithms can detect patterns in emergency room visits, flu vaccination rates, and weather changes to predict spikes in respiratory illnesses. Early predictions enable public health officials to deploy resources proactively, such as organizing vaccination drives, increasing staffing at hospitals, or launching awareness campaigns.

Fuchsia's governance services play a crucial role in ensuring these predictive models are transparent, accountable, and fair. By designing robust policies and procedures for Responsible AI (RAI), Fuchsia helps healthcare organizations avoid unintended consequences, such as over-policing certain communities or overlooking vulnerable populations. These practices build confidence in the technology's outcomes and ensure equitable healthcare delivery.

Optimizing Healthcare Resource Allocation

Efficient use of healthcare resources is essential to meet the demands of a growing and diverse population. AI can streamline resource allocation by predicting patient demand, identifying bottlenecks, and optimizing workflows. For example, predictive analytics can forecast hospital admission rates during flu season, enabling administrators to adjust staffing levels, manage bed availability, and ensure the supply of critical medications and equipment.

AI can also enhance operational efficiency in healthcare facilities. Tools like robotic process automation (RPA) and intelligent scheduling systems can reduce administrative burdens, allowing healthcare providers to focus more on patient care. For instance, AI-driven scheduling can match patients with the nearest available providers, minimize wait times, and balance workloads across clinics. These improvements not only enhance patient satisfaction but also reduce operational costs.

Fuchsia supports healthcare organizations by integrating AI solutions within a framework of compliance and governance. By conducting thorough risk assessments and implementing accountability measures, Fuchsia ensures that resource optimization aligns with both organizational goals and societal values. This includes safeguarding patient data privacy and adhering to healthcare regulations, such as HIPAA, to maintain trust and compliance.

Enhancing Patient-Centered Care

Beyond operational efficiencies, AI contributes to personalized and patient-centered care. Virtual health assistants, powered by AI, can guide residents through their healthcare journeys, from booking appointments to managing chronic conditions. These tools provide 24/7 support, addressing common questions, reminding patients to take medications, and even monitoring symptoms through wearable

devices. For patients in remote areas of North Central Texas, these virtual assistants bridge the gap between visits to healthcare providers, ensuring continuous care.

AI can also improve diagnostic accuracy and treatment planning. Advanced algorithms analyze medical imaging, lab results, and patient histories to support healthcare providers in making informed decisions. For example, AI tools can detect early signs of diseases such as cancer or heart conditions, leading to timely interventions and better outcomes.

Fuchsia's AI Governance consulting ensures that patient-centered solutions prioritize ethical considerations, such as informed consent, data security, and bias mitigation. By embedding these principles into the design and deployment of AI systems, Fuchsia helps healthcare organizations deliver compassionate, equitable care while maintaining regulatory compliance.

Transforming Healthcare Access and Efficiency

By harnessing the power of AI, North Central Texas can overcome longstanding challenges in healthcare access and efficiency. From identifying underserved areas and predicting disease outbreaks to optimizing resource allocation and enhancing patient care, AI offers a comprehensive toolkit for building a more equitable and effective healthcare system. These advancements not only improve the well-being of residents but also position the region as a leader in leveraging technology for the public good.

Fuchsia Services, Inc., as a trusted partner, provides the expertise and frameworks necessary to navigate the complexities of AI adoption. Through its strong focus on AI Governance and Compliance consulting, Fuchsia ensures that these transformative technologies are deployed responsibly and sustainably. With a shared commitment to innovation and equity, North Central Texas can set a benchmark for how AI transforms healthcare for the better, backed by the assurance of ethical and compliant practices.

Project Related Qualifications

The following have been delivered to our various clients.

AI Policies

Function	Policy	Procedure
Data Literacy	Define data ownership, stewardship, and access controls.	Establish data quality standards and data cleansing processes.
Data Acquisition and Integration	Outline data sources, data extraction methods, and data integration processes.	Define data mapping and transformation rules.
Data Security and Privacy	Establish data security and privacy standards, including data encryption and access controls.	Define data retention and deletion policies.
Data Analysis and Modeling	Define data analysis methodologies and statistical techniques.	Establish data visualization standards and reporting formats.
AI Use Policy	• Define Organization wide Policy for Acceptable Use of AI • Data Literacy: Develop training programs to enhance data literacy across the organization. • Ethical Consideration: Establish guidelines for ethical data usage and AI development. • Collaboration: Foster collaboration between data analysts, business users, and IT teams.	Establish Procedures for AI Use and Implementation
Data Utilization and Decision Maming	Outline how data insights will be used to inform business decisions	Define processes for data-driven decision making and performance measurement.
Change Management	Establish a change management process for AI initiatives	Define Communication Plan for AI Related Changes
Monitoring	Define KPIs using NIST values	Establish Procedures to keep monitoring and adapting KPIs
Risk Identification, Assessment and Management	Define AI Risk Management Policy (use of NIST etc.	Enhance current Risk management process to accommodate AI related requirements

SDLC Update

Our client is advancing its operations by introducing an AI Charter and Strategy in its operations. As part of the overall strategy, Fuchsia Services delivered the SDLC assessment with the following objectives to align with the required process for AI Governance in Phase I.

The program deliverables include a new future state SDLC intake process, SDLC process for AI and definition of required compliance and controls.

- **Evaluate Current Practices** Understand the existing SDLC methodology and identify its strengths and weaknesses across each phase (requirements, design, development, testing, deployment, maintenance).
- **Ensure Compliance** Assess adherence to relevant industry regulations and standards, particularly important in healthcare.
- **Optimize Efficiency** Identify areas for improvement to streamline the development process and reduce costs.
- **Improve Quality** Make recommendations to enhance the quality of software produced through the SDLC.
- **Develop Roadmap** Create a strategic plan for implementing the recommended changes to optimize the SDLC for future development efforts.

Project Goals (Jul 31, 2024, Delivered)

- Evaluate the existing SDLC processes, methodologies, and tools deployed within ABCBS.
- Identify areas of improvement, risks, and bottlenecks in the SDLC.
- Develop recommendations and a roadmap for optimizing the SDLC to align with industry best practices, compliance standards, and ABCBS goals.
- Provide guidance on implementing suggested improvements and monitoring their effectiveness over time.

Adopted Methodology

- Conduct interviews and workshops with key stakeholders including IT personnel, project managers, developers, testers, and business analysts to gather insights into current SDLC practices.
- Perform a comprehensive review of documentation, policies, and procedures related to software development, testing, deployment, and maintenance.
- Utilize industry-standard frameworks such as CMMI, ITIL, or Agile methodologies to assess the maturity and effectiveness of SDLC processes.
- Employ tools and techniques for process mapping, gap analysis, and risk assessment to identify areas for improvement.
- Benchmark ABCBS's SDLC practices against industry peers and standards.

Deliverables

- Detailed assessment report highlighting findings, recommendations, and a prioritized action plan for enhancing the SDLC.
- Roadmap outlining the proposed changes, including timelines, resource requirements, and expected outcomes.
- Documentation of best practices, templates, and guidelines for implementing recommended improvements.
- Presentation to senior management and key stakeholders to communicate assessment results, proposed changes, and benefits of optimization.

Develop AI Templates, Process and Workflow for Secure and Responsible Implementation

- **Data Quality and Diversity**
  - Increase the diversity of data used to train AI models to better represent the population.
  - Implement data cleaning and preprocessing techniques to remove biases from the data.
  - Use synthetic data generation to augment datasets with diverse and unbiased information.
- **Algorithmic Fairness**
  - Develop and apply fairness metrics to evaluate AI models for bias.
  - Use techniques like fair machine learning to mitigate discriminatory outcomes.
  - Consider multiple fairness definitions to address different types of bias.
- **Human-in-the-Loop**
  - Incorporate human oversight into AI decision-making processes.
  - Develop mechanisms for human intervention to correct biased outputs.
  - Provide training to human operators on recognizing and addressing bias.
- **Transparency and Explainability**
  - Make AI models and their decision-making processes transparent to stakeholders.
  - Develop techniques to explain AI outputs in understandable terms.
  - Foster trust and accountability by providing clear information about AI systems.
- **Collaboration and Standards**
  - Promote collaboration between researchers, policymakers, and industry to develop best practices.
  - Establish ethical guidelines and standards for AI development and deployment.
  - Create regulatory frameworks to ensure AI systems are safe and fair.

Document	Description	NIST Phase	Organization (Accountable)
Completed Policy Drafts	Describe the Acceptable Use of AI at ABCBS	Govern, Manage	AI Council
AI Process and Workflow (Work In Progress) Procedures and Workflow	Aid to Institute and foster AI Data Literacy, Training, Processes and Workflows to operate with AI Adoption	Map, Measure and Manage	AI Steering Committee

#	Document	Description	NIST Phase
1	AI Process.vsdx	Process Flow Describing AI Use Case Preparation and Approval	Govern
2	Human AI Interaction Standards.docx	Document of Standards to check for Human AI Interaction Acceptable use	Govern
3	Responsible AI Assessment Questionnaire.docx	AI Use Case Impact Assessment Questionnaire Template	Map
4	Model card template.docx	Template for Model Card	Map
5	Meta Data Requirements for Deep learning Models.xlsx	Data Requirements Detail	Map
6	Evaluation Critera checklist.docx	Template for Evaluation Criteria to Approve AI Use Case	Measure
7	Release Plan.docx	Template for AI Use Case Releases	Manage
8	AI Release Form Template.docx	AI Release Form for Approval	Manage
9	Failure and Incident Management.docx	Failure and Incident Management Plan Template	Manage
10	Post Incident Review Template.docx	Incident Management (Post Incident) Review Template	Manage

Validation of AI

Develop an Accelerator tool to determine Model Drift, Algorithmic Bias and serve the Data Science team to establish measure for each method type.

	Supervised	Unsupervised
Structured Data	**Regression:** Predicts continuous values based on input features. Linear Regression, Ridge Regression, Lasso Regression **Classification:** Categorizes data into predefined classes. Decision Trees, Random Forests, Logistic Regression, Support Vector Machines (SVM), k-Nearest Neighbors (k-NN) **Ensemble Methods:** Combines multiple models to improve performance. Gradient Boosting Machines (e.g., XGBoost, LightGBM), AdaBoost	**Clustering:** Used to group data points with similar characteristics. K-Means Clustering, Hierarchical Clustering, Gaussian Mixture Models (GMM) **Association Rule Learning:** Identifies relationships or associations between variables. Apriori Algorithm, Eclat Algorithm **Dimensionality Reduction:** Reduces the number of features while retaining key information. Principal Component Analysis (PCA), Independent Component Analysis (ICA)
Unstructured Data	**Image Classification:** Labels images into predefined categories. Convolutional Neural Networks (CNNs), ResNet, Inception **Text Classification:** Categorizes text into predefined classes. Recurrent Neural Networks (RNNs), Bidirectional Encoder Representations from Transformers (BERT) **Speech Recognition**: Converts audio data into text labels. Hidden Markov Models (HMMs), Deep Neural Networks (DNNs) in speech-to-text systems	**Clustering on Text or Image Data:** Groups unstructured data based on similarity. K-Means Clustering (for text embeddings), Self-Organizing Maps (SOMs) **Topic Modeling:** Extracts themes from large collections of text. Latent Dirichlet Allocation (LDA), Non-negative Matrix Factorization (NMF) **Anomaly Detection:** Detects unusual patterns within unstructured data. Autoencoders, Isolation Forest (for text or image anomalies)

AI Glossary

Developed a Glossary of Terms for AI to ensure common understanding of AI terms across the enterprise.

Example:

1. Artificial Intelligence (AI)	AI refers to the simulation of human intelligence in machines. It involves systems designed to perceive, reason, learn, and make decisions in ways that resemble human cognition. AI incorporates a variety of approaches, including rule-based systems, machine learning, and neural networks, which allows it to excel in tasks such as playing games, diagnosing medical conditions, and virtual assistance
2. Machine Learning (ML)	ML is a subset of AI that enables machines to learn from data without explicit programming. By analyzing patterns and statistical data, ML models can make predictions or decisions. ML is foundational to tasks such as recommendation systems, image recognition, and predictive analysis, empowering systems to improve performance over time as they process more data
3. Generative AI (Gen AI)	Generative AI is focused on creating new content, such as text, images, audio, and more, by learning from vast datasets. A subcategory includes Large Language Models (LLMs) like GPT, which are tailored to generating human-like text for applications in content creation and conversational agents. Generative AI is pivotal in applications beyond text, also generating visual content for creative fields
4. Natural Language Processing (NLP)	NLP enables machines to understand, interpret, and generate human language. It leverages deep learning to manage tasks like text classification, sentiment analysis, and language translation, aiming for seamless human-computer interaction. NLP applications have become integral to chatbots, virtual assistants, and automated translation tools
5. Deep Learning (DL)	Deep Learning is a specific type of ML that uses multi-layered neural networks to automatically identify patterns in large datasets. Unlike traditional ML, DL doesn't require manual feature extraction, making it ideal for complex tasks like image recognition, autonomous driving, and speech recognition. DL has advanced complex AI applications, powering advancements in self-driving vehicles, medical imaging, and high-accuracy voice recognition

Training

Delivered a training deck to educate users of AI on acceptable use as part of Onboarding and Ethics

Content:

Topic	Title	Subtitle	Visual	Callout
Title Topic	*Embracing Responsible AI: Practices and Principles*	*Building ethical, sustainable, and impactful AI solutions*	AI logo or an abstract image of interconnected nodes symbolizing AI.	introduce the significance of responsible AI in today's world.
Introduction to Responsible AI	*Why Responsible AI Matters*	AI that operates ethically, aligns with societal values, and promotes trust.	A timeline showcasing Organizational milestones in AI ethics (e.g., establishing the Office of Responsible AI).	A quote on ethical AI.

Fuchsia Services, Inc AI Consulting Capability Statement

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Topic	Title	Subtitle	Visual	Callout
Responsible AI Charter	*The Foundation of Ethical AI*	Six Principles: Fairness, Reliability & Safety, Privacy & Security, Inclusiveness, Transparency, Accountability Overview of the Charter's role in guiding AI development and governance.	A hexagon chart, each segment representing a principle.	
Fairness	*Ensuring AI Treats Everyone Equally*	Preventing AI bias that could disadvantage certain groups.	Enhancing fairness in AI recruitment tools by auditing datasets for bias. Practice: Collaborating with diverse stakeholders to improve fairness metrics.	Before-and-after analysis of biased vs. fair AI predictions in hiring.
Reliability and Safety	*AI That Works as Intended*	Robust, error-resistant AI systems.	AI-powered diagnostic tools undergoing rigorous real-world testing in hospitals. Practice: Post-deployment monitoring and response protocols for failures.	Flowchart showing a reliability testing pipeline.
Privacy and Security	*Protecting What Matters Most*	Safeguarding user data and maintaining trust.	Azure AI's encryption standards comply with GDPR. Practice: Using federated learning to train AI models without compromising privacy.	Infographic of secure data flow during AI training.
Inclusiveness	*AI for Everyone*	Making AI accessible and usable by diverse communities.	Seeing AI for visually impaired users; Translator AI for overcoming language barriers. Practice: Engaging underrepresented groups in design and testing.	Photo of diverse users interacting with inclusive AI tools.

Fuchsia Services, Inc AI Consulting Capability Statement

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Topic	Title	Subtitle	Visual	Callout
Transparency	*Opening the AI Black Box*	Explaining AI processes and decisions clearly to users.	Transparency reports for AI systems used in government services. Practice: Providing explainability tools like InterpretML.	Diagram showing layers of an AI model with annotations explaining decision-making.
Accountability	*Owning AI's Impact*	Ensuring responsible parties address AI's outcomes.	Ethics review boards overseeing sensitive AI applications like predictive policing. Practice: AI impact assessments before deployment.	Illustration of a hierarchy showing developers, stakeholders, and users connected by accountability lines.

Conclusion and Call to Action	*Shaping AI for Good*	Recap the six principles and their importance.	Call to Action: *Adopt responsible AI practices in your work and advocate for ethical innovation.*	: A compelling quote like, *"AI will be what we make of it."* – Brad Smith.

PRICING

Included in the Attachment and displayed here

Proposed Pricing **RFP No. 2025-023**			
Respondent Name:	**Fushiaa**		
Notes:	We are an efficient team that can affect change with a small team to do the assessment, delivery and support of the technical services, creation of roadmap and governance around AI. All contractors are on site and will support the delivery located in US Timezones. Data will not need to leave the continental US. Onshore AI consulting offers several key advantages. First, it ensures clear communication and cultural alignment between the consulting team and the client organization, leading to a deeper understanding of project needs and objectives. Second, onshore consultants can more easily integrate with existing teams and participate in face-to-face meetings, fostering stronger collaboration and knowledge transfer. Third, utilizing onshore resources can minimize potential delays associated with time zone differences and travel restrictions, enabling faster project execution and response times. Finally, opting for onshore AI consulting demonstrates a commitment to local talent and economic investment, which can be particularly valuable for public sector organizations and companies focused on social responsibility.		
Artificial Intelligence (AI) Consultancy Services			
Item	**Description**	**Price**	**Conditions**
1	Project Lead Executive	$200	100% of Project Time
2	Technical Architect	$175	100% of Project Time
3	Project Mnaager	$125	100% of Project Time
4	ML Engineer	$125	100% of Project Time
5	ML Security Engineer	$125	100% of Project Time
6	Analyst	$100	100% of Project Time
7	Data Engineer	$100	100% of Project Time
Contractors shall provide additional related servcies at catalog price less:		**10**	

CONCLUSION

Fushiaa is uniquely positioned to support NCTCOG member organizations in navigating these complex needs.

Fushiaa's expertise in AI governance, healthcare, and cybersecurity ensures the delivery of tailored, compliant, and secure AI solutions. Our strategic approach prioritizes the ethical application of AI to improve population health outcomes, streamline operations, and mitigate risks associated with emerging technologies. We leverage industry-leading frameworks, such as the NIST AI Risk Management Framework, to build robust, future-ready solutions that align with the public sector's regulatory and operational demands.

By partnering with Fushiaa, NCTCOG member organizations gain access to a trusted advisor with a proven track record in delivering Responsible AI. As a Microsoft Partner specializing in AI cloud technologies and an innovator in healthcare AI compliance, Fushiaa combines deep technical expertise with a commitment to ethical AI practices. Our focus on cybersecurity ensures that AI solutions are not

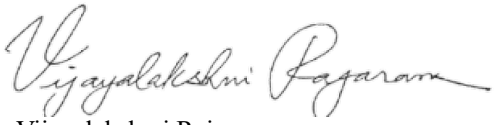
only effective but also resilient against ever-evolving threats, safeguarding the trust and integrity of the organizations we serve.

With Fushiaa, NCTCOG member organizations can confidently achieve their mission of enhancing population health and security, positioning themselves as leaders in the ethical and responsible adoption of AI. Let Fushiaa be your partner in shaping a healthier, more secure future through Responsible AI.

Fushiaa Brings

- Proven Delivery Experience in Large Non Profit Organization, Care Management Startup and a fast growing Azure Consulting Partner
- Excellent Thought Leadership and Deep Experience from Industry Leaders driving excellent execution and strategy, Combined Industry Experience of over 60 years
- Innovation at the Edge of AI in a fast paced change in AI Technology and Consulting with a cybersecurity driven AI practice
- A large staff and sourcing strategy to staff Expert ML Engineers with a high end consulting background
- Cost Effective, High Touch, High End consulting Partnership
- Local to Dallas, Texas and a Talent Pool at the heart of Texas
- HUIB Certified and Woman Owned Small Business, fast growing at a pace of 250% Year over Year
- Founder of Fushiaa is an active member of Small Business Association
- Proven 6 step Methodology to Deliver AI Policies, Process, Workflow, Organizational Structure and Templates
- Deep Expertise in Agentic AI Product Management
- Ability to Deliver Training and Training Collateral to Organizations custom tailored to specific requirements within the organization

We appreciate your consideration and time and look forward to hearing from you. Please contact viji@fushiaa.com for any questions or comments.



Vijayalakshmi Rajaramanan
Founder, CEO
Fuchsia Services, Inc
01/13/25