



POTOMAC
AI LABS

APPLIED AI - MACHINE LEARNING - CYBERSECURITY ANALYTICS - INTELLIGENT AUTOMATION

CAPABILITY STATEMENT

Washington, D.C. | info@potomacailabs.com | www.potomacailabs.com

Potomac AI Labs helps organizations identify, design, and build practical AI-powered systems that automate work, extract intelligence from data, improve decisions, strengthen digital trust, and create measurable business value.

CORE COMPETENCIES

- Custom AI applications, dashboards, and decision-support platforms
- LLM/RAG enterprise knowledge assistants over trusted internal content
- AI agents and workflow automation for multi-step business processes
- NLP and document intelligence: classification, extraction, summarization, search
- Machine learning models: prediction, risk scoring, forecasting, anomaly detection
- Cybersecurity AI for threat analytics, IoT/OT anomalies, and compliance support
- AI governance, responsible AI, risk controls, and secure adoption roadmaps
- MLOps/LLMOps: evaluation, monitoring, API integration, and deployment
- Advanced analytics, data modeling, and enterprise business intelligence

WHAT CUSTOMERS CAN BUY

- AI opportunity assessment and prioritized implementation roadmap
- Secure RAG knowledge assistant using internal documents and controlled sources
- AI agent prototype or MVP for a high-value business workflow
- NLP/document intelligence system for contracts, policies, reports, and evidence
- Cybersecurity AI or anomaly detection model for enterprise, IoT, and OT data
- AI governance package: use-case inventory, policy, risk register, and oversight model
- ML models for fraud detection, Know Your Customer, fake-news data detection, and risk scoring

KEY DIFFERENTIATORS

- Applied AI lab with research-to-product delivery capability
- Specialized in secure LLM/RAG, AI agents, ML models, document intelligence, and cyber analytics
- Business-first method: determine whether AI, automation, software engineering, systems integration, or a blended solution is best
- Cybersecurity, explainability, governance, and auditability built into solution design from the beginning
- Ability to move from concept to architecture, prototype, MVP, deployment, and productization

REPRESENTATIVE EXPERIENCE

- Developed AI/ML models for detecting fake and manipulated information online
- Developed ML approaches for detecting attacks against hospital IoT and connected medical-device environments
- Developed predictive and explainable ML approaches for detecting cyberattacks against U.S. smart-grid and power-system environments
- Designed AI-powered product concepts for business idea scoring, compliance readiness, document intelligence, and workflow automation

PRIMARY INDUSTRIES

- Federal contractors, government, intelligence, healthcare, finance, insurance/actuarial, cybersecurity, energy, utilities, critical infrastructure, construction, manufacturing, transportation, education, small business, and professional services

COMPANY DATA

- Legal Name: Potomac AI Labs
- Location: Washington, D.C. Metro Area
- Website: www.potomacailabs.com
- Email: info@potomacailabs.com
- UEI: UEQDZSKRFGC65
- CAGE: 9DE87
- SAM Status: Active
- Business Type: AI solutions lab; cyber resilience, security, and GRC small business

LEADERSHIP

- CEO & President: Dr. Beza Lefebvre
- Chief Scientist: Dr. John Kuk
- Chief AI Advisor: Dr. John Kramarczyk

NAICS CODES

- 541715: R&D in physical, engineering, and life sciences
- 541511: Custom computer programming
- 541512: Computer systems design
- 541519: Other computer related services
- 541690: Scientific and technical consulting
- 541611: Management consulting
- 518210: Data processing, hosting, related services

PSC / KEYWORDS

- PSC: DA01, DA10, DB10, DC01, R425, R408, AJ13
- Keywords: Artificial Intelligence, Machine Learning, LLM, RAG, NLP, AI Agents, Cybersecurity AI, Data Science, Predictive Analytics, Anomaly Detection, MLOps, Document Intelligence, Compliance Automation, Critical Infrastructure AI

ENGAGEMENT MODELS

- AI project brief and use-case triage
- Use-case and data-readiness assessment
- Prototype / MVP sprint
- Custom AI solution build
- AI governance and responsible AI support

Contact Potomac AI Labs: Share one workflow, document problem, decision problem, or product idea. We will help define the AI path.