CAPABILITY STATEMENT

US Federal, State and Local Government

Petaflow AI LLC · Tampa, Florida · petaflowai.com

Secure, measurable AI for public-sector operations. Petaflow finds the repetitive work slowing an organization down, then builds and runs the AI agents and automations that take it off people's plates, and trains teams to use them. We deploy locally or air-gapped when data cannot leave the perimeter, connect to the systems agencies already run, and tie every solution to cost savings, service quality or efficiency before we build.

CORE COMPETENCIES

- **Sovereign LLMOps:** air-gapped or locally deployed AI with real-time redaction, local telemetry and automated hallucination evaluation.
- **AI strategy and AI Value Map:** discovery of day-to-day workflows and a roadmap that ties each AI solution to cost savings, revenue or efficiency.
- **Workflow automation:** intake and registrations, correspondence, notifications, reporting and scheduling triage.
- **AI agents and assistants:** assistants that answer from approved documents with guardrails and access control; voice and service agents.
- **Intelligent document processing:** OCR and parsing of legal, clinical and administrative documents into structured databases.
- **Computer vision and telemetry:** real-time CCTV analysis, object classification, vehicle tracking and edge deployment.
- **Custom AI web apps and integrations:** secure apps with login and access control, private knowledge bases and middleware to existing systems.
- **Training and managed AIOps:** executive briefings, hands-on staff workshops, and monitoring, fixes and optimization after launch.

DIFFERENTIATORS

- US-based engineering team in Tampa, Florida, with no offshore handoffs.
- Local deployment options and secure data boundaries for sensitive data.
- Custom middleware connects to legacy databases without rip-and-replace.
- Every deployment includes end-user and administrator training, so clients are not locked in.
- Production-grade engineering: backend middleware, private knowledge bases, evaluations and monitoring.
- A live product in a regulated field: Petaflow Med drafts clinical documentation that clinicians review, edit and approve before it reaches the EMR.

FOUNDER AND TECHNICAL LEADERSHIP

Mohamed Akoud, Founder & Managing Director. *15+ years across AI/ML, technical product management, data analytics and telecom network engineering, in the United States and the Gulf.*

- **GenAI product leadership:** leads GenAI and AI products for network operations at a Tier-1 US telecom operator, aligning AI roadmaps to business KPIs and OKRs and directing data engineering, data science, data governance and ML engineering teams.
- **Operations intelligence:** formed and led an operations insights team; data mining across Oracle, Teradata, Postgres, AWS and GCP with SQL and Python; dashboards in Tableau and Looker; SAFe agile delivery.
- **AI/ML solution design:** as a delivery manager, designed conceptual and architectural AI/ML solutions for fiber build operations and formulated a "Fiber Intelligence as a Service" model.
- **Program and vendor management:** PMO, scheduling, cost estimates, change management and QA/QC for a national fiber network program; material and supplier management for a Saudi operator.
- **International delivery:** fiber network design and standards for telecom operators in Qatar, Saudi Arabia and the UAE.
- **Research:** AI/ML graduate research assistant, Kennesaw State University.

Credentials: M.S. Software Engineering (Kennesaw State University); B.Eng. (Hons) Electronics, Telecommunications; PMP; Certified SAFe 5 Scrum Master and SAFe 5 Practitioner; CCNA and CCNA Wireless; Certified Fiber to the Home Professional.

COMPANY DATA

LEGAL NAME
Petaflow AI LLC (Florida LLC)

UEI
E1DFF6E3KLH1

CAGE / NCAGE
264C9

D-U-N-S
14-585-5079

SAM.GOV
Registered in SAM.gov

BUSINESS TYPE
Small business · MBE eligible

CONTRACTING ROLES
Prime contractor, subcontractor or teaming partner

NAICS CODES

541511* Custom Computer Programming Services
541512* Computer Systems Design Services
541519 Other Computer Related Services
541611 Administrative and General Management Consulting
541715 R&D in the Physical, Engineering and Life Sciences
518210 Computing Infrastructure, Data Processing and Hosting
611420 Computer Training
**Primary*

OTHER CODES

PSC
DA01 · DC01 · AJ11 · U012

NIGP
918-61 · 920-40 · 920-91

UNSPSC
43232605 · 43232610 · 86132102

CONTACT

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