JAXORIK AI RESEARCH GROUP

Applied AI Solutions – Statement of Capabilities

🜚 6300 Riverside Plaza Dr. NW Suite 100, Albuquerque, NM 87120

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📁 **PORTFOLIOS:** Github (Data Rae) | YouTube (DataRae-AIEngineer)

COMPANY OVERVIEW

Jaxorik is an AI research and development firm based in Albuquerque, New Mexico. We specialize in explainable, mission-ready AI systems designed for government contractors and defense-related industries.

Backed by $3M in Errors & Omissions Insurance

SAM.GOV INFORMATION

UEID: K8ENCCGZ2M13 | **CAGE CODE:** Pending | **NAICS Codes:** 541715 (R&D in Physical, Engineering, and Life Sciences), 541511 (Custom Computer Programming), 541690 (Scientific & Technical Consulting), 541512 (Computer Systems Design)

Certifications: Woman-Owned Small Business (WOSB), Service-Disabled Veteran-Owned Small Business (SDVOSB) – Pending

Registered in Disaster Response Registry (SAM.gov)

PROFESSIONAL BIO

Founded by Rae Chipera (Data Rae), a former Marine Corps SIGINT analyst and Iraq veteran with security clearance eligibility. Rae holds an MBA in Financial Management and is completing a PhD in Data Science, with over 10 years of experience in data science and AI development.

CORE CAPABILITIES

- Design and deployment of AI/ML models for real-time operational support
- Research-driven solutions in AI safety, automation, and intelligence augmentation
- Custom-built algorithmic tools for government agencies and defense applications
- Integration of AI into disaster response systems and field-ready technologies
- Development of predictive analytics platforms for mission-critical environments
- Technical consulting on AI procurement, integration, and lifecycle planning
- Prototype development and rapid deployment in austere or time-sensitive scenarios

KEY DIFFERENTIATORS

- No black box algorithms. We prioritize transparency and auditability
- Compute-light deep learning optimized for cost-effective deployment
- Operated by a service-disabled veteran with deep technical expertise
- Active focus on ethical AI and adversarial robustness in mission-critical environments
- Flexibly scoped R&D contracting: from prototype to full deployment
- Experience creating tools under low-resource, high-impact constraints
- Quality assurance protocols modeled after DoD/IC best practices
- Flexible engagement options: On-prem, cloud, or hybrid delivery

PAST PERFORMANCE

Available upon request (non-disclosure agreements may apply). General projects and overviews available on Github.com/datarae

DISASTER RESPONSE CAPABILITIES

- AI-assisted logistics coordination and threat detection
- Custom analytics dashboards deployable in degraded network environments
- Resilient systems designed for unstable or high-risk zones

ONGOING RESEARCH FOCUS

- Adaptive AI systems for unstable real-world conditions
- Ethical adversarial training for explainability and auditability
- Fractal-based learning and dynamic feature extraction
- Edge AI for disaster zones with limited connectivity

CONTACT

Rae Chipera, Founder & Head of AI Development

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JAXORIK AI RESEARCH GROUP is SAM.gov registered and eligible for federal contract work, subcontracting partnerships, and direct awards. Capable of supporting R&D and operational deployment across civilian, defense, and emergency sectors.