



JAXORIK AI RESEARCH GROUP

Applied AI Solutions – Statement of Capabilities

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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, disaster response, and defense-related industries.

Backed by \$3M in Errors & Omissions Insurance

SAM.GOV INFORMATION

UEID: K8ENCCGZ2M13 | **CAGE CODE:** 11X70 | **NAICS Codes:** 541715 (R&D in Physical, Engineering, and Life Sciences), 541511 (Custom Computer Programming), 541690 (Scientific & Technical Consulting), 541512 (Computer Systems Design)

Eligible for WOSB and SDVOSB set-asides

Registered in Disaster Response Registry (SAM.gov)

PROFESSIONAL BIO

Founded by Rae Chipera, a former Marine Corps SIGINT analyst and Iraq veteran with security clearance eligibility. Rae has more than 10 years of experience in data science and machine learning. She holds an MBA in Financial Management and is completing a PhD in Data Science.

CORE CAPABILITIES

- We build AI systems for satellite monitoring, threat detection, and counter-drone operations that work in real-time for defense and emergency operations.
- We research how to make AI safer and more reliable for critical infrastructure protection.
- We create predictive analytics for disaster response, grid management, and environmental monitoring.
- We advise organizations on AI procurement and integration for defense, energy, and emergency management systems.
- We rapidly develop and deploy AI prototypes for field testing in disaster zones and remote operations.

KEY DIFFERENTIATORS

- No black box algorithms. Our AI systems are explainable. You can see how they make decisions.
- We build efficient AI that runs on cheaper hardware or in areas with limited resources instead of requiring massive server farms and an entire city's share of electricity.
- Founded by a former Marine intelligence analyst who takes data security seriously.
- We focus on AI that is both ethical and resilient in high-stakes situations.
- We handle everything from quick prototypes to full system rollouts – whatever you need.
- We are used to building effective solutions with limited budgets and tight deadlines.
- Our quality assurance standards follow Department of Defense and intelligence community practices.
- We work however you prefer – on air-gapped systems, on servers, in the cloud, or a mix.

PAST PERFORMANCE

Portfolio examples available (NDAs may apply). General overviews available on [Github.com/datarae](https://github.com/datarae)

DISASTER RESPONSE CAPABILITIES

- Predictive models for hurricane paths, wildfire spread, and flood zones
- Computer vision for damage assessments and lost person behavior / search and rescue
- Communication network and resource optimization when infrastructure fails
- Evacuation route planning and crowd management

DEFENSE & INFRASTRUCTURE CAPABILITIES

- Counter-drone detection and tracking systems
- Satellite anomaly detection and threat assessment
- Renewable energy & power grid monitoring and attack prevention
- Supply chain disruption prediction and mitigation

Don't see your specific challenge? Let's talk about custom solutions.



CONTACT

Rae Chipera, Founder & Director of AI Innovation

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