



Advancing Trustworthy AI for
Mission Critical Systems



COMPANY OVERVIEW

Sentinel Gradient LLC develops advanced artificial intelligence and machine learning systems for government and commercial organizations. We help clients solve complex problems, improve decisions, automate critical workflows, and turn data into measurable results. Our focus is building powerful technology that performs in real-world environments.



DIFFERENTIATORS

- Proven experience developing advanced AI systems for real-world assistive technology applications.
- Specialized expertise in computer vision, machine learning, and intelligent automation.
- Agile small business able to move quickly and work directly with clients.
- Focused on practical solutions that create measurable value, not research for its own sake.



COMPANY DATA

- **Legal Name:** Sentinel Gradient LLC
- **Business Type:** Small Business
- **Ownership:** Minority-Owned
- **SAM Status:** Active Registration
- **UEI:** LZQMAV479P59
- **CAGE Code:** 178C5
- **NAICS:** 541511, 541512, 541715
- **Core Focus:** Artificial Intelligence & Machine Learning Systems
- **Accepts Credit & Purchase Cards:** Yes
- **Location:** Charlottesville, Virginia



CORE COMPETENCIES

- Custom AI & Machine Learning Model Development
- Predictive Analytics & Forecasting Systems
- Computer Vision & Sensor-Based Intelligence
- Autonomous Systems & Decision Algorithms
- Data Engineering & Intelligent Automation
- Natural Language Processing Applications
- Research Prototyping & Applied R&D
- Model Optimization, Testing & Deployment
- Decision Support Platforms
- Secure AI Solutions for High-Stakes Environments



PAST PERFORMANCE

- Supported NIH-funded research as a subcontractor developing AI vision systems for ultra-low vision assistive technology.
- Selected as a Phase 1 winner in the NIH OligoTox Open Data Challenge for AI-based toxicity prediction.
- Built real-time detection models for everyday objects in complex indoor environments.
- Delivered deployable prototypes designed for low latency and edge-device performance.



CONTACT

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