Computer Vision for Automated Inspection and Analysis

Development and deployment of computer vision systems that automate visual analysis tasks (object detection, classification, change detection, and anomaly identification) augmenting human analysts with AI-powered capabilities.

PRACTICE

Applied AI and Data

CLIENT PROFILE

DoD or federal organization requiring automated visual analysis capabilities for imagery interpretation, quality inspection, surveillance, or geospatial intelligence applications

Challenge

- Human analysts unable to keep pace with the volume of imagery and video requiring review
- Manual inspection processes that are slow, inconsistent, and fatiguing
- Need for real-time or near-real-time visual analysis at edge locations

Approach

- Curate and annotate training datasets representative of mission-specific visual tasks
- Train and validate object detection, classification, and segmentation models
- Optimize models for deployment on target hardware including GPU servers and edge devices
- Implement human-in-the-loop workflows for model-assisted analysis with confidence scoring

Typical Outcomes

- Automated detection and classification reducing analyst review burden
- Consistent, repeatable analysis across large image and video datasets
- Real-time visual analytics capability deployable to edge and tactical environments

Procurement Paths

- NASA SEWP V and SEWP VI for GPU compute infrastructure and edge devices
- GSA MAS for computer vision development and integration services
- ITES-4H for supporting Army hardware requirements

Compare vehicles and ordering steps on **How to buy**.

Partner Technology Examples

- NVIDIA
- AMD
- Hewlett Packard Enterprise
- Dell Technologies

FEATURED PRODUCT

Odin's Edge: the operated site

Norseman runs a secure cloud at your site. You run the mission.

Odin's Edge is Norseman's managed edge platform. It puts compute, storage and network at the site under one controlled architecture, on the hardware you already run, integrated and tested in our lab before it ships. Applications arrive hardened, with the configuration baselines and test reports your security team needs. Norseman operates it around the clock or hands it to your team with the same console. Buy it as one line on your vehicle or as a per site subscription.

The same site runs the AI when the mission is ready.

This is a representative use case. To request a briefing or a quote, contact Norseman Defense Technologies at 410.579.8600 or sales@norseman.com.