

REPRESENTATIVE USE CASE

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 & Data Analytics

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: For When the Cloud Isn't an Option

Odin's Edge is Norseman's autonomous edge AI platform. It delivers AI inferencing, rugged storage, private 5G, containerized desktops, and ServiceNow ITSM in a single field deployable unit. It is built for DDIL (disconnected, degraded, intermittent, and limited bandwidth) environments.

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.