

REPRESENTATIVE USE CASE

Machine Learning and Deep Learning for Mission Applications

Design and deployment of machine learning and deep learning pipelines that transform raw data into actionable predictions, from data engineering through model training, validation, and deployment in secure environments.

PRACTICE

Applied AI & Data Analytics

CLIENT PROFILE

DoD or IC organization developing predictive models and classification systems for mission-critical applications such as threat detection, predictive maintenance, or pattern recognition

Challenge

- Data scientists spending more time on data wrangling than model development
- No standardized ML pipeline for reproducible training, testing, and deployment
- Models developed in research environments that cannot be operationalized in production

Approach

- Build automated data pipelines for ingestion, cleansing, and feature engineering
- Establish ML platform with experiment tracking, model registry, and version control
- Implement MLOps practices for model validation, deployment, and monitoring in production
- Design model governance framework including bias testing, explainability, and performance monitoring

Typical Outcomes

- Reduced time from concept to deployed model through standardized ML pipelines
- Reproducible experiments with tracked parameters, data versions, and results
- Production-grade model serving with monitoring and automated retraining triggers

Procurement Paths

- NASA SEWP V and SEWP VI for GPU compute and ML infrastructure
- GSA MAS for data science and ML engineering services
- CIO-CS (NITAAC) for enterprise analytics platforms

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

Partner Technology Examples

- NVIDIA
- AMD
- AWS GovCloud
- Microsoft Azure

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.