Natural Language Processing for Document Intelligence

Deployment of NLP capabilities that automate the analysis of unstructured text, extracting entities, classifying documents, and generating summaries to accelerate human review and decision-making workflows.

PRACTICE

Applied AI and Data

CLIENT PROFILE

Federal agency processing large volumes of unstructured text, reports, correspondence, intelligence products, or regulatory filings, needing automated extraction, classification, and summarization

Challenge

- Analysts manually reviewing thousands of documents for relevant information
- No automated capability for entity extraction, topic classification, or cross-referencing
- Valuable information locked in unstructured text formats not accessible to search or analytics

Approach

- Implement document ingestion pipeline with OCR for scanned documents
- Deploy named entity recognition (NER) and relationship extraction models
- Build classification models for automated document routing and prioritization
- Create searchable knowledge base with semantic search and summarization capabilities

Typical Outcomes

- Automated extraction and classification reducing manual review time
- Searchable knowledge base enabling rapid information retrieval across document collections
- Analyst focus shifted from document processing to analysis and decision-making

Procurement Paths

- NASA SEWP V and SEWP VI for NLP platform infrastructure and GPU compute
- GSA MAS for AI/ML development services
- CIO-CS (NITAAC) for enterprise AI solutions

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

Partner Technology Examples

- Elastic
- NVIDIA
- AWS GovCloud
- Microsoft Azure

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.