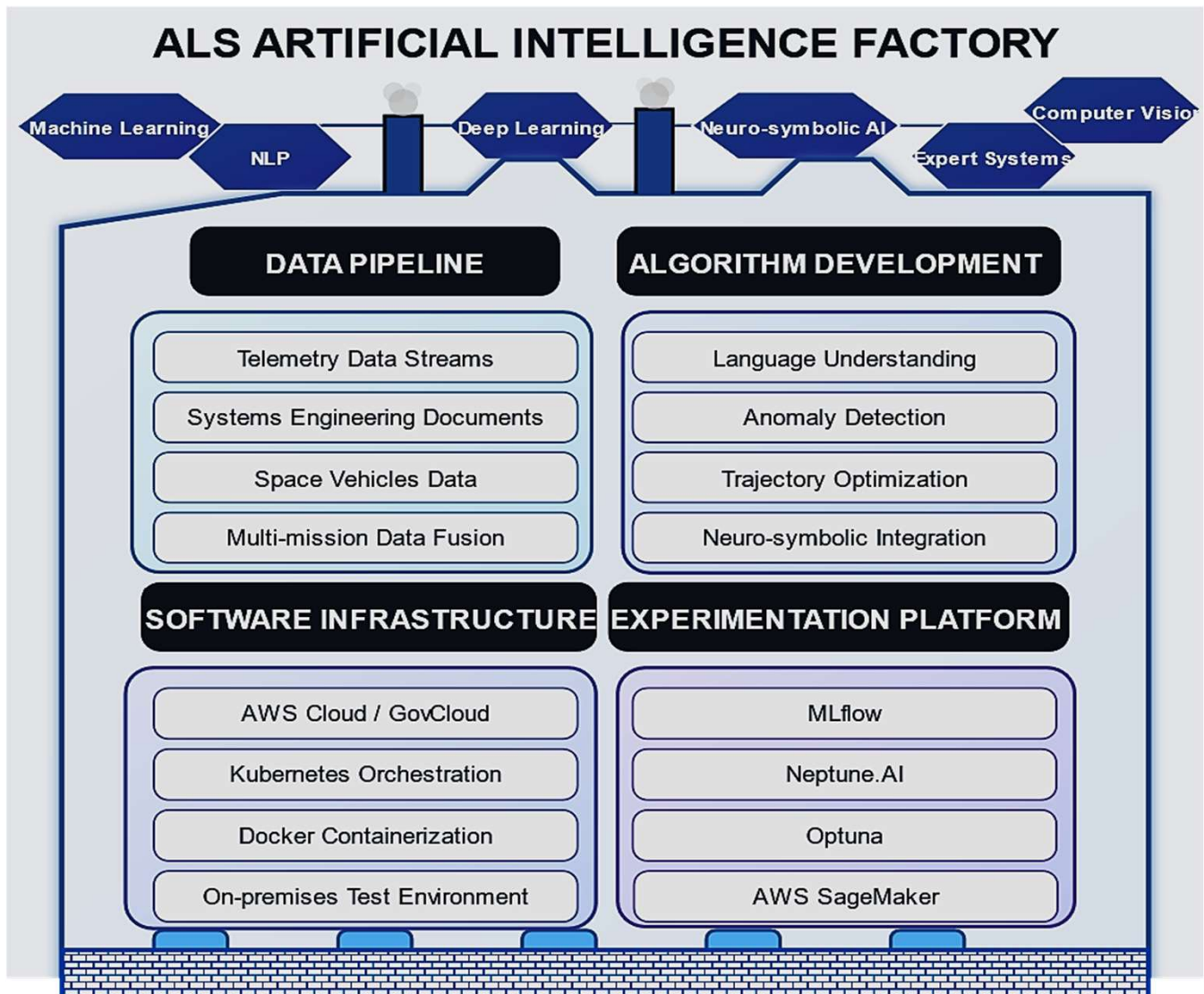# Artificial Intelligence Factory

Tools, Applications, APIs, and Agents reducing labor hours, exposing system weaknesses, reducing the potential for errors, improving investigation reliability, and creating solutions for Commercial companies and defense stakeholders

ALS ARTIFICIAL INTELLIGENCE FACTORY

Machine Learning • NLP • Deep Learning • Neuro-symbolic AI • Expert Systems • Computer Vision

DATA PIPELINE
- Telemetry Data Streams
- Systems Engineering Documents
- Space Vehicles Data
- Multi-mission Data Fusion

ALGORITHM DEVELOPMENT
- Language Understanding
- Anomaly Detection
- Trajectory Optimization
- Neuro-symbolic Integration

SOFTWARE INFRASTRUCTURE
- AWS Cloud / GovCloud
- Kubernetes Orchestration
- Docker Containerization
- On-premises Test Environment

EXPERIMENTATION PLATFORM
- MLflow
- Neptune.AI
- Optuna
- AWS SageMaker

AI Factory Focus

- Artificial Intelligence, Machine Learning, and Modeling & Simulation Applications, APIs, and Agents are changing engineering, manufacturing, and operations.
- IVMA, an ALS Internal Research & Development (IRA) and Air Force funded project, confirmed our vision and built our AI Factory.
- Our team has cultivated an AI Programmer pipeline with a regional college Computer Science hatchery.
- Collaboration with US Government Civilian and Defense Innovation Leaders.

ALS
ADAPTIVE LAUNCH SOLUTIONS

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