



Advanced Analytics and Machine Learning Microservices Platform

The explosion of new data affects all of our domains from healthcare to national security. Across these domains, we're helping our customers adopt artificial intelligence (AI) and machine learning (ML) solutions that turn this data into new opportunities for insight and efficiency.

OPERATIONALIZING DATA SCIENCE THROUGH AI/ML

The Advanced Analytics and Machine Learning Microservices Platform (A2M2P) provides flexible and scalable data analytic pipelines that accelerate mission relevant AI/ML services to scalable data collections. The integration, evaluation, and operationalization of AI/ML services into our pipelines enhance and augment extracted source data allowing immediate discovery and retrieval, file access, and advanced analytic service enrichment, through a highly useable, secure, available, scalable, portable, interoperable, and serviceable, platform.

A2M2P EXPLAINED

A2M2P operationalizes data science with the right combination of data processing and mission relevant AI/ML services to enhance and enrich data to increase document and media discoverability. Potential enhancements include file metadata extraction, text extraction, document language identification, image characterization, custom object detection in images, face extraction, facial attribute identification, audio characterization, geospatial pattern analysis, and many more. With these enhancements and through highly usable interfaces that align with your mission needs, users are able to discover more files of intelligence value than status quo tools. Data science teams can rapidly evaluate and integrate analytic services at scale, and in turn users are then able to instantly discover related or similar files.

Leidos will continue with planned configurable upgrades over the next year, continuing to extend the data science and exploitation potential, automating the rapid test harness, and operationalizing our data analytic processing pipelines with additional AI/ML services and interfaces in an open microservices framework.

A2M2P CAPABILITIES

A2M2P is helping accelerate the future of data science at scale enabling the rapid evaluation and operationalization for your enterprise data analysis needs with the following capabilities:

- ▶ Seamless access and discovery to heterogeneous data sources, enabling the rapid building of analytics using managed data sets
- ▶ Flexible, scalable and expandable data analytic processing and analytic workflow prototypes that can grow with customers' needs
- ▶ Rapid test harness capability enabling the automated and scalable test and evaluation of new AI/ML services

EXPANDING CATALOG OF ANALYTIC SERVICES

- ▶ Foundational document and media search discovery
- ▶ Geospatial search
- ▶ Search-by-example: video, audio, text
- ▶ Enhanced data exploration
- ▶ Bulk query export
- ▶ Image and face discovery and classification
- ▶ Topic modeling and search
- ▶ Probe images for facial extraction and similarity

WHY PARTNER WITH LEIDOS?

As a leading provider of data-rich solutions for the U.S. government, we understand our customers, and their data. By combining that understanding with our expertise in designing and building AI/ML systems, we're able to accelerate solutions that provide immediate value for our customers' most important problems. Our knowledge of the underlying physics in many domains allows us to take a disciplined, science-based approach to AI/ML that distinguishes our solutions.

NEXT STEPS

At Leidos, we pride ourselves on creating solutions to technically challenging problems of global importance. Our deep understanding of our customers, their data, and their missions allow Leidos to deliver AI and ML solutions that provide real value immediately. What value can we help you discover in your data? Contact us today.

ABOUT LEIDOS

Leidos is a Fortune 500® information technology, engineering, and science solutions and services leader working to solve the world's toughest challenges in the defense, intelligence, homeland security, civil, and health markets. The company's 32,000 employees support vital missions for government and commercial customers. Headquartered in Reston, Virginia, Leidos reported annual revenues of approximately \$10.19 billion for the fiscal year ended December 28, 2018.

FOR MORE INFORMATION

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