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.

TRANSFORMING DOCUMENT AND DIGITAL MEDIA DATA EXPLOITATION THROUGH AI/ML

The Advanced Analytics and Machine Learning Microservices Platform (A2M2P) provides flexible and scalable data analytic pipelines that integrate mission relevant AI/ML services to analyze collections of document and digital media data. The integration of AI/ML services into our pipelines enhance and augment the data extracted from digital medial allowing immediate discovery and retrieval of pre-conditioned document and media data, access to trusted and mission relevant files, through a highly useable, secure, available, scalable, portable, interoperable, and serviceable, platform.

A2M2P EXPLAINED

A2M2P combines the right combination of data processing and mission relevant AI/ML services to enhance and enrich data to increase discoverability of document and digital media data. Enhancements include file metadata extraction, text extraction, document language identification, image characterization, custom object detection in images, face extraction, facial attribute identification, audio characterization, and many more. With these enhancements and through highly usable interfaces that match the customer’s needs, users are able to discover more files of intelligence value than in a typical browse-down exploration found in existing digital forensics tools. Users will also be able to instantly discover related or similar files, inspect volume and file system metadata, and examine potential noxious executables in a secure environment.

Leidos will continue with planned configurable upgrades over the next year, continuing to expand the collection potential, our user interfaces, and our data analytic processing pipelines with additional AI/ML services in an open microservices framework.
A2M2P CAPABILITIES

A2M2P is helping lay the foundation for the future of document and digital media exploitation supporting criminal and national security investigations by providing the following capabilities:

- Seamless access and discovery to pre-conditioned document and digital media
- Innovative, flexible, scalable and expandable data analytic processing pipelines that can grow with customers needs
- Sense-making capabilities, allowing users to perform object-based analysis across collections and media types

FEATURES

- Foundational document and digital media search discovery
- Geospatial search
- Search-by-example: video, audio, text
- Data science and 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 deliver solutions that provide immediate value for our customers’ most important problems. Our knowledge of the underlying physics of 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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