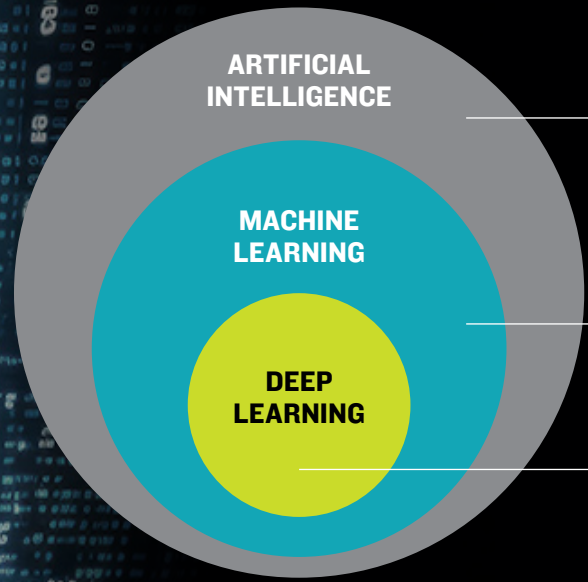**Booz Allen**®

Space + AI
SUMMIT

Advance Your
SPACE MISSIONS

THE HELIX | Tuesday, January 23, 2024

PUTTING AI TO WORK IN SPACE TO ADVANCE YOUR MISSION

Space agencies employ every level of AI.

ARTIFICIAL INTELLIGENCE
Any technique which enables computers to solve problems and perform tasks that would normally require human capabilities and intelligence.

EXAMPLE: Object recognition, e.g., adversarial asset in satellite footage

MACHINE LEARNING
The study of computer algorithms that improve automatically through experience and by use of data.

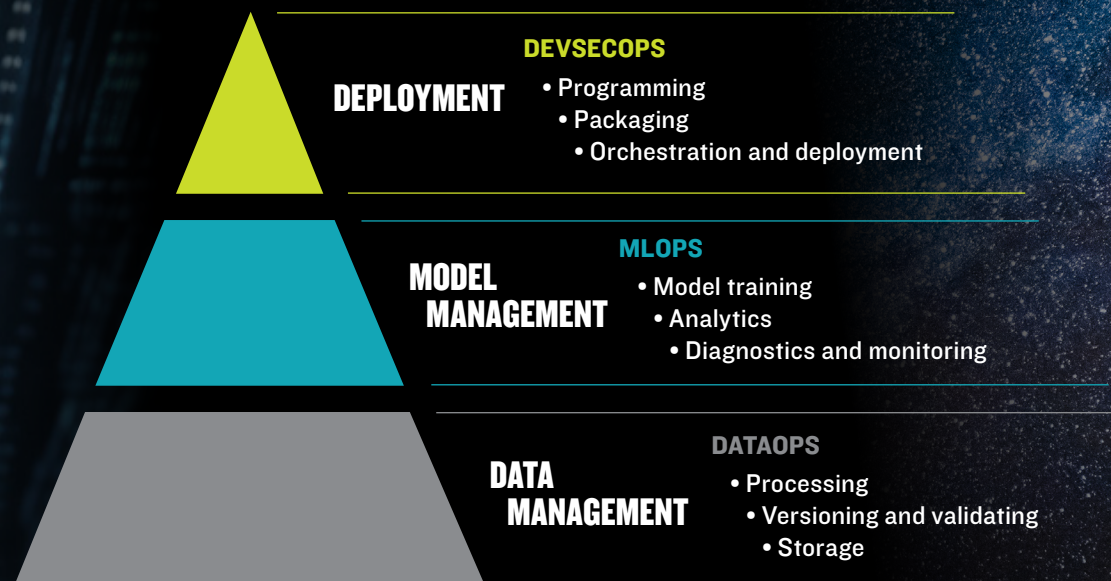**EXAMPLE:** Analysis of adversarial actions over time

DEEP LEARNING
A specialized collection of machine learning approaches leveraging deep neural networks to enable AI capabilities.

EXAMPLE: Predictive analytics for course of action recommendations

Generative AI

Source: O'Reilly "Enterprise AIOps"

As the largest provider of AI-related services to the federal government, we're leaders in ethical, responsible AI—with a rigorous process to ensure all solutions are transparent, accountable, and explainable.

TRANSPARENT
Individuals should understand that they are interacting with an AI system, and what data it is using to make those decisions.

ACCOUNTABLE
If there is a harmful, biased, or unfair outcome, there is a structure in place for humans to take responsibility for those erroneous actions or decisions.

EXPLAINABLE
The ability to explain how the algorithms make their decisions.

Wherever you are on your AI journey, continuous development and deployment allows you to accelerate what's next.

DEPLOYMENT
DEVSECOPS
- Programming
- Packaging
- Orchestration and deployment

MODEL MANAGEMENT
MLOPS
- Model training
- Analytics
- Diagnostics and monitoring

DATA MANAGEMENT
DATAOPS
- Processing
- Versioning and validating
- Storage

Source: TowardsDataScience.com, "The Complete Guide to the Modern AI Stack"

We help space leaders transform space missions in key areas like these:

Intelligence, surveillance, and reconnaissance

- **Earth Observation:** Perform AI-enhanced intel data analytics to improve decision making and speed dissemination to warfighters

- **Space Observation:** Enable multi-orbit, multi-sensor, multi-agency space domain awareness-space traffic management with cross domain data sharing and AI/ML enhancement

Virtual, automated ground systems

- Integrate and automate the functions of command and control, mission management, and mission data processing

- Empower defense, intelligence, civil, and commercial organizations with cloud-based capabilities to accelerate speed, flexibility, and resiliency

As a leading space data solutions provider and prime integrator of ground and space systems, we:

- Develop and deliver modular, scalable software solutions that condition, analyze, and disseminate space-related data

- Integrate and deliver advanced ground systems and complex space constellations

- Combine mission understanding with a flexible, open-architecture approach

- Ensure every solution is built with AI and cyber from the ground up

Learn how to make your space missions more effective and resilient—whether to confront adversaries, inform global environmental change, or advance human exploration of space.

ADVANCE YOUR SPACE MISSIONS WITH AI.
Launch your future with us.

Decision Advantage | Climate Intelligence | National Security | Space Exploration

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Have questions? Contact us. We'd be delighted to help you launch your future.

BoozAllen.com/Space

Trusted to transform missions with tomorrow's technologies, Booz Allen Hamilton combines AI and cybersecurity with
leading-edge technology and engineering solutions to realize our purpose: Empower People to Change the World®.