

Machine Learning Operations (MLOps)

Accelerate Deployment of ML Models at Scale



Machine Learning Operations (MLOps) is a set of best practices, tools, and methodologies that manage and streamline the development, deployment, monitoring, and maintenance of machine learning (ML) models in production environments. MLOps enhances the productivity of research and engineering teams and ensures that ML models are reliable, scalable, and accurate in real-world settings.

CACI brings decades of experience in artificial intelligence (AI) research, software engineering, and DevSecOps to build MLOps systems that accelerate the process of taking AI models from the lab to production. CACI has extensive experience building workflows to train, test, optimize, and deploy AI models tailored for full motion video, computer vision, natural language processing (NLP), cyber, radio frequency, and other use cases.

CACI builds AI solutions tailored to meet the mission. We help our customers smartly apply AI to meet their operational requirements. Our AI solutions can be adapted for any environment and deployed at any scale, from large enterprise systems to the tactical edge. We architect our AI systems to support both current and future operational requirements so your AI capabilities can continue to evolve at the pace and speed of mission.

For more information, contact:

Brian No
(720) 643-2969
brian.no@caci.com

For more information about our expertise and technology visit:

www.caci.com

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EXPERTISE AND TECHNOLOGY FOR NATIONAL SECURITY

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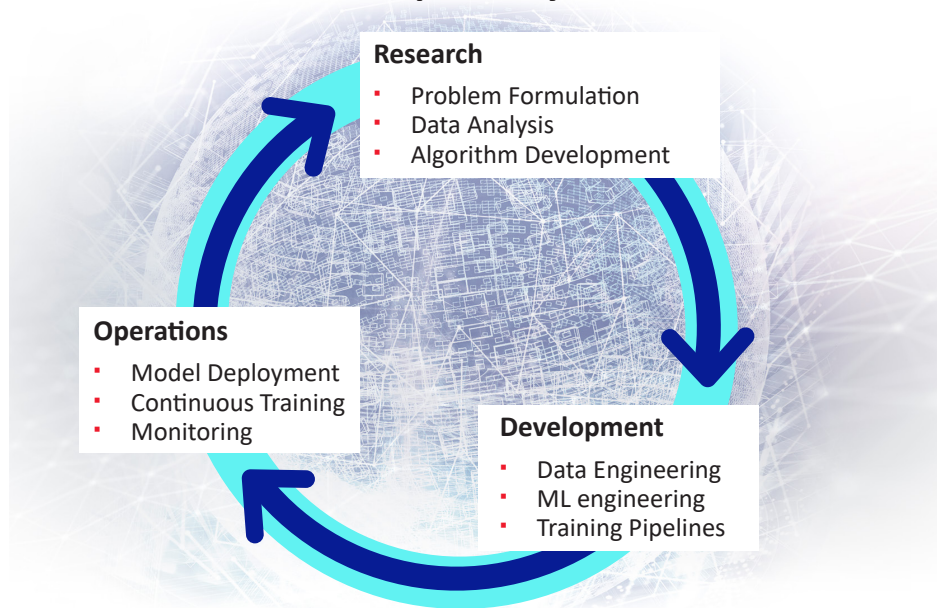
Features and Expertise

- Computer vision
- Deep learning
- ML
- NLP
- Cloud, on-prem, and edge deployments.
- Deploy MLOps at any scale.
- Flexible solutions for data labeling and versioning, experiment tracking, and model deployment and monitoring.

Benefits

- Build AI solutions tailored to your mission needs.
- Deliver AI globally and at the tactical edge.
- Shorten the path from research to production.
- Continuous integration, deployment, and training of AI models.
- Reduce technical debt and system complexity.

MLOps Lifecycle



Research to Production Pipeline

CACI leverages decades of mission experience to understand our customers' business and IT requirements. Our deep learning specialists use and evaluate the latest technologies and can tailor custom MLOps systems that meet your unique mission needs. We use proven Agile approaches and system architectures to accelerate research and maximize the probability of transitioning models to operations.

Flexible Solutions for Every Mission

CACI's AI solutions maximize the use of open-source technologies to reduce costs and enhance flexibility. AI research is evolving at an incredible pace, so we use a modular design framework in our MLOps systems that enables us to swap in new technology without redesigning our systems.

AI at any Scale

CACI has a wealth of experience supporting AI deployments of all sizes, from applying language models against bulk data to embedding miniaturized computer vision models at the edge in low-SWaP imaging systems, to building enterprise platforms to handle a customer's entire ML life cycle. Ask us how you can leverage CACI's experience in deploying your MLOps environment.

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CACI's approximately 22,000 talented employees are vigilant in providing the unique expertise and distinctive technology that address our customers' greatest enterprise and mission challenges. Our culture of good character, innovation, and excellence drives our success and earns us recognition as a *Fortune* World's Most Admired Company. As a member of the Fortune 1000 Largest Companies, the Russell 1000 Index, and the S&P MidCap 400 Index, we consistently deliver strong shareholder value. Visit us at www.caci.com.

Worldwide Headquarters

12021 Sunset Hills Road, Reston, VA 20190
703-841-7800

Visit our website at:

www.caci.com

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