Machine Learning Operationalization (ML Ops)

Increasingly, enterprises are seeking to integrate machine learning model training, deployment, and management into existing processes for developing and delivering software. What's become known as "Machine Learning Operationalization", or "ML Ops" has become part of the larger move towards "Development/Operations" or "DevOps".

DevOps is a combination of best practices for team collaboration and operational automation that helps drive efficiency in creating, deploying, and managing software solutions at enterprise scale. Often, data scientists and machine learning specialists work in relative isolation from the software developers who integrate their models into applications and the system administrators who manage the deployed application infrastructure, but by adopting some DevOps principles, these disparate teams can coordinate activities to create an effective overall solution.

Azure Machine Learning provides multiple capabilities that an organization can leverage for ML Ops, and integrates with more general DevOps tools such as Azure DevOps and GitHub. You'll explore these capabilities in more depth in the remainder of this course.