

Module 1 – The Definition and Scope of MLOps

- Machine Learning Delivery Cycle
- Agile Versus DevOps
- What Is MLOps?
- Goals of MLOps
- MLOps Principles
- DataOps Principles
- Goals of DataOps
- Machine Learning Capabilities

Module 2 – Agile Principles that Are Applied to MLOps Projects

- MLOps Versus DevOps
- Machine Learning Life Cycle
- Business and Data Understanding
- Feature Engineering
- Data Standardization
- Modeling
- Deployment Strategy
- Monitoring Actions and Tools

Module 3 – How Machine Learning Models and Training Sets Are Incorporated into the CI/CD Process

- Machine Learning Workflow
- CI/CD for Machine Learning
- Continuous Culture
- CI/CD for Data Pipelines

Module 4 – How MLOps Reduces Technical Debt

- Technical Debt in ML
- Source Repository
- Test and Build Services
- Deployment Services
- Model Registry
- Feature Store
- ML Metadata

- Automation of Experiments
- Prediction Services
- Technical Documentation

Module 5 – Best Practices and How to Get Started with MLOps

- Versioning
- Testing
- Automation
- Reproducibility
- Deployment
- Monitoring