

Google Cloud Machine Learning Engineer Track

COURSE OVERVIEW

This course provides an end-to-end learning path for developing, deploying, and managing machine learning models on Google Cloud Platform (GCP). Areas covered in the course are model development, data preparation, pipeline automation, model monitoring, and MLOps best practices. Participants will engage practical tools like Vertex AI, BigQuery ML, AutoML, and TensorFlow on GCP. Participants can use this course to prepare for the Google Cloud Professional Machine Learning Engineer certification and real-world ML engineering roles in cloud environments.

WHO SHOULD ATTEND?

This course is designed for machine learning engineers, data scientists, cloud developers, AI/ML practitioners, and technical professionals seeking to build and scale ML solutions on Google Cloud. It is also beneficial for those preparing for the Google Cloud Professional ML Engineer certification. Prior experience with Python, machine learning basics, and familiarity with cloud concepts is recommended.

COURSE OUTCOMES

Delegates will gain the knowledge and skills to:

- Understand the ML lifecycle on Google Cloud.
- Prepare and manage large datasets using GCP tools.
- Build and train ML models using TensorFlow and Vertex AI.
- Automate model pipelines and deployment workflows.
- Implement MLOps for monitoring and continuous improvement.
- Optimize model performance and manage version control.
- Apply security and governance best practices for ML solutions.
- Prepare for the Google Cloud ML Engineer certification exam.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Overview of Google Cloud's AI and ML ecosystem.
- Using Vertex AI for model training, deployment, and monitoring.
- Data preparation with BigQuery and Cloud Storage.
- Model development with AutoML, TensorFlow, and custom containers.
- ML pipeline automation with Cloud Functions and Cloud Composer.
- MLOps best practices: CI/CD, model drift detection, and monitoring.
- Security, scalability, and compliance in cloud-based ML workflows.
- Hands-on labs and real-world case studies.
- Certification-focused training modules.
- Deployment of end-to-end machine learning solutions on GCP.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded