

# INTRODUCTION TO AI AND MACHINE LEARNING ON GOOGLE CLOUD

Course Code: 899023

This course introduces the artificial intelligence (AI) and machine learning (ML) offerings on Google Cloud that support the data-to-AI lifecycle through AI foundations, AI development, and AI solutions.

This course introduces the artificial intelligence (AI) and machine learning (ML) offerings on Google Cloud that support the data-to-AI lifecycle through AI foundations, AI development, and AI solutions. It explores the technologies, products, and tools available to build an ML model, an ML pipeline, and a generative AI project based on the different goals of users, including data scientists, AI developers, and ML engineers.

## What You'll Learn

### Skills Gained

- Recognize the data-to-AI technologies and tools offered by Google Cloud.
- Use generative AI capabilities in applications.
- Choose between different options to develop an AI project on Google Cloud.
- Build ML models end-to-end by using Vertex AI.

## Who Needs to Attend

Professional AI developers, data scientists, and ML engineers who want to build ML models, develop AI or ML applications or solutions and build end-to-end ML pipelines on Google Cloud

## Prerequisites

Having one or more of the following:

- Basic knowledge of machine learning concepts
- Prior experience with programming languages such as SQL and Python

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VIRTUAL CLASSROOM LIVE

\$1,199 CAD

1 Day

## Virtual Classroom Live Outline

### Module 1: AI Foundations

- Why Google?
- AI/ML framework on Google Cloud
- Google Cloud infrastructure
- Data and AI products
- ML model categories
- BigQuery ML
- Lab introduction: BigQuery ML

### Module 2: AI Development Options

- AI development options
- Pre-trained APIs
- Vertex AI
- AutoML
- Custom training
- Lab introduction: Natural Language API

### Module 3: AI Development Workflow

- How a machine learns
- ML workflow
- Data preparation
- Model development
- Model serving
- MLOps and workflow automation
- Lab introduction: AutoML

### Module 4: Generative AI

- Generative AI and LLM

- Generative AI use case: Duet AI
- Model Garden
- Generative AI Studio
- AI solutions
- Lab introduction: Generative AI Studio

Jan 20 - 20, 2026 | 9:00 AM - 5:00 PM EST

Feb 2 - 2, 2026 | 9:00 AM - 5:00 PM EST

Jul 20 - 20, 2026 | 9:00 AM - 5:00 PM EST

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