Introduction to AI and Machine Learning on Google Cloud

Cursusduur: 1 Dag **Cursuscode: GO9095** **Trainingsmethode: Maatwerk**

Beschrijving:

This course introduces the AI and machine learning (ML) offerings on Google Cloud that build both predictive and generative AI projects.

It explores the technologies, products, and tools available throughout the data-to-AI life cycle, encompassing AI foundations, development, and solutions.It aims to help data scientists, AI developers, and ML engineers enhance their skills and knowledge through engaging learning experiences and practical hands-on exercises.

Products:
- Gemini multimodal
- Gemini Enterprise
- NotebookLM
- BigQuery ML
- Vertex AI, Vertex AI Studio, Vertex AI Agent Builder, Vertex AI Pipelines
- Natural Language API
- AutoML

Updated July 2026

Maatwerk

Global Knowledge biedt zowel standaard- als maatwerkcursussen die zijn afgestemd op uw wensen en die als besloten cursus op uw eigen locatie of onze locatie gevolgd kunnen worden.

Doelgroep:

- AI developers, data scientists, and ML engineers

Doelstelling:

- **After this course participants should be able to:**
- Recognize the data-to-AI technologies and tools provided by Google Cloud.
- Build generative AI projects by using Gemini multimodal, efficient prompts, and model tuning.
- Explore various options for developing an AI project on Google Cloud.
- Create an ML model from end-to-end by using Vertex AI.

Vereiste kennis en vaardigheden:

Having one or more of the following:

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

Examens en certificering

None

Vervolgcursussen:

No recommendation

Cursusinhoud:

Module 0: Course Introduction

- Define the course objectives.
- Recognize the course structure

Module 1: AI Foundations

- Recognize the AI/ML framework on Google Cloud.
- Identify the major components of AI infrastructure.
- Define the data and ML products on Google Cloud and how they support the data-to-AI lifecycle.
- Build an ML model with BigQuery ML to bring data to AI.
- Lab: Predict Visitor Purchases with BigQuery ML

Module 2: Generative AI

- Define generative AI and foundation models.
- Recognize the prompt-to-production lifecycle and its associated tools.
- Define AI agents and their core components.
- Identify Google Cloud tools and technologies for building AI agents.
- Lab: Get started with Vertex AI Studio

Module 3: AI Development Options

- Define different options to build an ML model with Vertex AI on Google Cloud.
- Identify the features and use cases of pre-trained APIs, AutoML, and custom training.
- Use the Natural Language API to analyze text.
- Lab: Entity and Sentiment Analysis with Natural Language API

Module 4: AI Development Workflow

- Define the workflow of building an ML model.
- Describe MLOps and workflow automation on Google Cloud.
- Build an ML model from end to end by using AutoML with Vertex AI.
- Lab: Vertex AI: Predict Loan Risk with AutoML

Module 5: Course Summary

- Recognize the primary concepts, tools, technologies, and products learned in the course.

Extra informatie:

Official course book provided to participants

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

info@globalknowledge.nl

www.globalknowledge.com/nl-nl/

Iepenhoeve 5, 3438 MR Nieuwegein