Introduction to Developer Efficiency with Gemini on Google Cloud Training

Duration: **1 Day**

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Generative AI has become an important technology in reshaping the way software is designed, developed, operated, and managed. For developers, it offers powerful capabilities for improving coding efficiency and incorporating APIs such as the PaLM API into applications.

Introduction to Developer Efficiency with Gemini on Google Cloud focuses on how generative AI can help developers work more efficiently when writing code and introducing new functionality into applications. Throughout the course, participants learn the fundamental principles of prompt design and explore different models available on Google Cloud through Vertex AI Model Garden.

Prerequisites

Participants should have completed **Google Cloud Fundamentals: Core Infrastructure** or have equivalent knowledge and practical experience.

Who Should Attend

This course is suitable for:

- Application developers,
- Technical professionals who want to explore generative AI capabilities on Google Cloud,
- Individuals interested in understanding how generative AI can improve efficiency throughout the software development process.

What You Will Learn

By the end of this course, participants will be able to:

- Describe common efficiency challenges within developer workflows and explain how generative AI can help address them,
- Use Duet AI in Cloud Code to write application code more efficiently,
- Use Duet AI in Google Cloud to quickly summarize application logs,
- Explain the core principles of prompt design when working with Duet AI in Cloud Code,
- Integrate the PaLM API into applications to make use of generative AI capabilities,
- Explore models available through Vertex AI Model Garden.

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Training Outline

Module 1: Developer Efficiency on Google Cloud

- Identify common efficiency challenges faced by developers
- Understand how AI-powered tools on Google Cloud can improve developer productivity and efficiency
- Describe developer workflows that incorporate large language models (LLMs)

Module 2: Using Duet AI Throughout the Development Lifecycle

- Use Duet AI in Cloud Code to write application code more efficiently
- Use Duet AI in Google Cloud to quickly summarize application logs

Module 3: Prompt Design for Duet AI

- Understand the fundamental principles of effective prompt design when working with Duet AI in Cloud Code

Module 4: Leveraging Codey in Developer Workflows

- Use the Vertex AI PaLM API and Codey for code generation
- Integrate Codey into applications through the API
- Fine-tune Codey for specific use cases

Module 5: Discovering Model APIs Using Vertex AI Model Garden

- Understand the purpose and role of Vertex AI Model Garden
- Explore the models available through Vertex AI Model Garden