



Build AI Apps with Azure Database for PostgreSQL (AI-3019)

COURSE OVERVIEW

This learning path explores how the Azure AI and Azure Machine Learning Services integrations provided by the Azure AI extension for Azure Database for PostgreSQL - Flexible Server can enable you to build AI-powered apps.

PREREQUISITES

Before starting this module, you should have experience working with PostgreSQL databases, writing SQL queries, and a general understanding of AI and ML concepts.

COURSE OBJECTIVES

Students will learn:

- Get Started with Generative AI in Azure Database for PostgreSQL
- Enable Semantic Search in Azure Database for PostgreSQL
- Summarize Data with Azure AI Services and Azure Database for PostgreSQL
- Perform Sentiment Analysis and Opinion Mining with Azure Database for PostgreSQL
- Extract Insights Using Azure AI Language and Azure Database for PostgreSQL
- Translate Text with Azure AI Translator and Azure Database for PostgreSQL
- Using Azure Machine Learning for Inferencing from Azure Database for PostgreSQL

COURSE OUTLINE

Get started with generative AI in Azure Database for PostgreSQL

- Introduction
- Understand Generative AI Language Models
- Describe the Azure AI Extension
- Explore the Azure OpenAI Schema
- Review the Azure Cognitive Schema
- Examine the Azure Machine Learning Schema
- Exercise-Explore the Azure AI Extension
- Knowledge Check
- Summary

Enable semantic search in Azure Database for PostgreSQL

- Introduction
- Understand Semantic Search
- Store Vectors in Azure Database for PostgreSQL
- Create Embeddings with the Azure AI Extension
- Exercise - Generate Vector Embeddings with Azure OpenAI

- Explore Semantic Search use Cases
- Exercise - Create a Search Function for a Recommendation System
- Knowledge Check
- Summary

Summarize data with Azure AI Services and Azure database for PostgreSQL

- Introduction
- Explain Extractive Summarization
- Exercise - Perform Extractive and Abstractive Summarization
- Knowledge Check
- Summary

Perform sentiment analysis and opinion mining with Azure Database for PostgreSQL

- Introduction
- Explore Sentiment Analysis
- Describe Opinion Mining
- Exercise - Analyze Sentiment
- Knowledge Check
- Summary

Extract insights using Azure AI Language and Azure Database for PostgreSQL

- Introduction
- Extract Key Phases
- Recognize Entities
- Recognize Personally Identifiable Information (PII) Entities
- Exercise - Extract Insights Using the Azure AI Language Service
- Knowledge Check
- Summary

Translate Text with Azure AI Translator and Azure Database for PostgreSQL

- Introduction
- Explore the Azure AI Translator Service
- Translate Date in Azure Database for PostgreSQL
- Exercise - Translate Text
- Knowledge Check
- Summary

Use Azure Machine Learning for inferencing from Azure Database for PostgreSQL

- Introduction
- Explore Azure Machine Learning
- Invoke Azure Machine Learning Models
- Exercise - Perform Inferenace Using Azure Machine Learning
- Knowledge Check
- Summary

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