

BUILD AI APPS WITH AZURE DATABASE FOR POSTGRESQL (AI-3019)

Course Code: 834070

PostgreSQL - Flexible Server can enable you to build AI-powered apps.

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.

What You'll Learn

Students will learn to,

- 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
- Use Azure Machine Learning for inferencing from Azure Database for PostgreSQL

Who Needs to Attend

Intermediates and developers who wants to build AI Apps with Azure Database for PostgreSQL.

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.

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CLASSROOM LIVE

\$675 CAD

1 Day

Classroom Live Outline

Get started with generative AI in Azure Database for PostgreSQL

- Examine the concepts of generative AI and large language models and explore how they can be used to build rich AI applications.
- Evaluate the capabilities of azure_ai extension for PostgreSQL.
- Install and explore the azure_ai extension in an Azure Database for PostgreSQL - Flexible Server database.

Enable semantic search in Azure Database for PostgreSQL

- Examine the concepts of semantic search & embedding vectors.
- Understand the difference between lexical search & semantic search.
- Evaluate the capabilities provided by the azure_ai extension for PostgreSQL.
- Install and explore the vector and azure_ai extensions in an Azure Database for PostgreSQL - Flexible Server database.

Summarize data with Azure AI Services and Azure database for PostgreSQL

- Evaluate the summarization techniques available through Azure AI Services and the azure_ai extension.
- Examine the differences between extractive, abstractive, and query-focused summarization.
- Apply Generative AI summarization techniques to data in a PostgreSQL database to gain practical experience using Azure AI Services and the azure_ai extension for summarization.

Perform sentiment analysis and opinion mining with Azure Database for PostgreSQL

- Explore the fundamentals of sentiment analysis and how it can be leveraged to gain insights into user sentiments and emotions.
- Describe opinion mining techniques to identify sentiments related to specific attributes.

- Apply sentiment analysis to user reviews in a PostgreSQL database using the azure_ai extension.

Extract insights using Azure AI Language and Azure Database for PostgreSQL

- Examine the concepts of key phrase extraction, entity recognition, and PII (personally identifiable information recognition) recognition.
- Understand the capabilities provided by the azure_ai extension for PostgreSQL to access Azure AI Language.
- Install the azure_ai extension in an Azure Database for PostgreSQL - Flexible Server database, and use it to extract key phrases, recognize entities in text, and redact PII.

Translate Text with Azure AI Translator and Azure Database for PostgreSQL

- Learn how to translate documents using the Azure AI Translator.
- Learn how the Azure AI extension enables seamless interaction between Azure Database for PostgreSQL - Flexible Server and Azure AI Translator.
- Understand one way to translate documents automatically as part of record insertion.

Use Azure Machine Learning for inferencing from Azure Database for PostgreSQL

- Learn how to train and deploy an Azure Machine Learning model using automated machine learning.
- Learn how to invoke deployed Azure Machine Learning models from Azure Database for PostgreSQL - Flexible Server.
- Learn how to generate predictions for each row in an Azure Database for PostgreSQL - Flexible Server table.

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VIRTUAL CLASSROOM LIVE

\$675 CAD

1 Day

Virtual Classroom Live Outline

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- Evaluate the capabilities of azure_ai extension for PostgreSQL.
- Install and explore the azure_ai extension in an Azure Database for PostgreSQL - Flexible Server database.

Enable semantic search in Azure Database for PostgreSQL

- Examine the concepts of semantic search & embedding vectors.
- Understand the difference between lexical search & semantic search.
- Evaluate the capabilities provided by the azure_ai extension for PostgreSQL.
- Install and explore the vector and azure_ai extensions in an Azure Database for PostgreSQL - Flexible Server database.

Summarize data with Azure AI Services and Azure database for PostgreSQL

- Evaluate the summarization techniques available through Azure AI Services and the azure_ai extension.
- Examine the differences between extractive, abstractive, and query-focused summarization.
- Apply Generative AI summarization techniques to data in a PostgreSQL database to gain practical experience using Azure AI Services and the azure_ai extension for summarization.

Perform sentiment analysis and opinion mining with Azure Database for PostgreSQL

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- Learn how the Azure AI extension enables seamless interaction between Azure Database for PostgreSQL - Flexible Server and Azure AI Translator.
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PRIVATE GROUP TRAINING

1 Day

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