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# 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 USD

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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Course Code: 834070

VIRTUAL CLASSROOM LIVE

\$675 USD

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.
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PRIVATE GROUP TRAINING

1 Day

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

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