ProTech Professional Technical Services, Inc.



AI-100T01-A: Designing and Implementing an Azure AI Solution

Course Summary

Description

Build a customer support chat Bot that use artificial intelligence from the Microsoft Azure platform including language understanding and pre-built AI functionality in the Azure Cognitive Services.

Topics

- Introducing Azure Cognitive Services
- Creating Bots
- · Enhancing Bots with QnA Maker
- Learn How to Create Language Understanding Functionality with LUIS
- Enhancing Your Bots with LUIS
- Integrate Cognitive Services with Bots and Agents

Audience

This course is aimed at Cloud Solution Architects, Azure artificial intelligence designers, and Al developers.

Prerequisites

Before attending this course, students must have Azure fundamentals and C# knowledge.

Duration

Three days

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Course Outline

I. Introducing Azure Cognitive Services

The student will learn about the available Cognitive Services on Microsoft Azure and their role in architecting AI solutions.

- A. Overview of Azure Cognitive Services
- B. Creating a Cognitive Service on the Azure Portal
- C. Access and Test a Cognitive Service

II. Creating Bots

The student will learn about the Microsoft Bot Framework and Bot Services.

- A. Introducing the Bot Service
- B. Creating a Basic Chat Bot
- C. Testing with the Bot Emulator

III. Enhancing Bots with QnA Maker

The student will learn about the QnA Maker and how to integrate Bots and QnA Maker to build up a useful knowledge base for user interactions.

- A. Introducing QnA Maker
- B. Implement a Knowledge Base with QnA Maker
- C. Integrate QnA with a Bot

IV. Learn How to Create Language Understanding Functionality with LUIS

The student will learn about LUIS and how to create intents and utterances to support a natural language processing solution.

- A. Introducing Language Understanding
- B. Create a new LUIS Service
- C. Build Language Understanding with Intents and Utterances

V. Enhancing Your Bots with LUIS

The student will learn about integrating LUIS with a Bot to better understand the users' intentions when interacting with the Bot.

- A. Overview of language understanding for AI applications
- B. Integrate LUIS and Bot to create an Al-based solution

VI. Integrate Cognitive Services with Bots and Agents

The student will learn about integrating Bots and Agents with Azure Cognitive Services for advanced features such as sentiment analysis, image and text analysis, and OCR and object detection.

- A. Understand Cognitive Services for Bot Interactions
- B. Perform Sentiment Analysis for your Bot with Text Analytics
- C. Detect Language in a Bot with the Language Cognitive Services
- D. Integrate Computer Vision with Bots