

Develop natural language solutions in Azure

Courses Code: AI-3003

Duration: 1 Day

Delivery Mode: Instructor-led Training (ILT) | Virtual Instructor led Training (VILT)

Overview

Natural language solutions use language models to interpret the semantic meaning of written or spoken language, and in some cases respond based on that meaning. You can use the Language service to build language models for your applications, and explore Microsoft Foundry to use generative models for speech.

Skills Covered

- Analyze text and extract semantic meaning using Azure AI Language.
- Build question answering and conversational language understanding models.
- Develop custom text classification and named entity recognition solutions.
- Translate text and speech using Azure AI Translator and Speech services.
- Create speech-enabled and audio-enabled generative AI applications.
- Develop intelligent, language-aware apps that process and respond naturally to users.

Who Should Attend

This course is designed for **AI engineers and developers** who want to build, manage, and deploy natural language solutions using **Azure AI Services** and **Azure AI Foundry**. Participants should be familiar with programming (C# or Python) and Azure concepts.

Prerequisites

Before starting this learning path, you should already have:

- Familiarity with Azure and the Azure portal.
- Programming experience.

Course Modules

Module 1. Analyze text with Azure Language

- The Azure Language service enables you to create intelligent apps and services that extract semantic information from text.

Module 2. Create question answering solutions with Azure Language

- The question answering capability of the Azure Language service makes it easy to build applications in which users ask questions using natural language and receive appropriate answers.



Module 3. Build a conversational language understanding model

- The Azure Language conversational language understanding service (CLU) enables you to train a model that apps can use to extract meaning from natural language.

Module 4. Create custom text classification solutions

- The Azure Language service enables processing of natural language to use in your own app. Learn how to build a custom text classification project.

Module 5. Custom named entity recognition

- Build a custom entity recognition solution to extract entities from unstructured documents
- Module 6. Translate text with Azure Translator service
- The Translator service enables you to create intelligent apps and services that can translate text between languages.

Module 7. Create speech-enabled apps with Microsoft Foundry

- The Azure Speech service enables you to build speech-enabled applications. This module focuses on using the speech-to-text and text to speech APIs, which enable you to create apps that are capable of speech recognition and speech synthesis.

Module 8. Translate speech with the Azure Speech service

- Translation of speech builds on speech recognition by recognizing and transcribing spoken input in a specified language, and returning translations of the transcription in one or more other languages.

Module 9. Develop an audio-enabled generative AI application

- A voice carries meaning beyond words, and audio-enabled generative AI models can interpret spoken input to understand tone, intent, and language. Learn how to build audio-enabled chat apps that listen and respond to audio.

Module 10. Develop an Azure AI Voice Live agent

- Learn how to develop an Azure AI Voice Live agent using the Voice Live API and SDK. This module covers the fundamentals of the Voice Live platform, including API integration, SDK usage, and building conversational AI agents.

Ref: <https://trainocate.com/courses/microsoft/ai-3003-develop-natural-language-processing-solutions-with-azure-ai-services-training>

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