

AI-3003: Build a Natural Language Processing solution with Azure AI Services

Duration: 01 days (08 hours)

Learning objectives:

After completing this course, students will be able to:

- Analyzing and translating text
- Build a question answering solution
- Build a conversational language understanding app
- Custom classification and named entity extraction
- Speech recognition, synthesis, and translation

Pre-requisite:

- Familiarity with Azure AI Services and the Azure portal.
-

Module 01: Analyze Text

- Detect language and extract key phrases
- Analyze sentiment and detect PII
- Summarize text
- Extract entities and linked entities

Module 02: Translate Text

- Language *detection*
- One-to-many *translation*
- Script *transliteration*

Module 03: Build a question answering solution

- Create and edit a knowledge base
- Train, test, and deploy the knowledge base
- Consume a published knowledge base.

Module 04: Build a conversational language understanding app

- Provision an Azure AI Language resource
- Define intents, entities, and utterances
- Use patterns to differentiate similar utterances and use pre-built entity components
- Train, test, publish, and review a model
- Describe Azure AI Language Understanding features

Module 05: Build a conversational language understanding app

- Provision an Azure AI Language resource
- Define intents, entities, and utterances
- Use patterns to differentiate similar utterances and use pre-built entity components
- Train, test, publish, and review a model
- Describe Azure AI Language Understanding features

Module 06: Custom classification and named entity extraction

- Label documents, train and deploy models for custom classification
- Understand model performance and see where to improve your model
- Use your custom model in an app

Module 07: Speech recognition, translation and synthesis

- Use the Speech to text API to implement speech recognition
- Use the Text to speech API to implement speech synthesis
- Configure audio format and voices
- Use Speech Synthesis Markup Language (SSML)