

Conversation as a Platform and Microsoft Bot Framework

Modality: On Demand

Duration: 20 Hours

About this Course:

This intermediate-level training program helps professional developers understand the key concepts of Natural Language Understanding and developing, integrating, and managing Bot Experiences. The primary objective of this course is to train professionals about effective ways to integrate “Conversation as a Platform” practices in a business enterprise. This course reviews Azure Bot Services and Microsoft Bot Framework for effective resource allocation needed to design production bots.

The teachings of this course helps professionals build familiarity with the Azure Bot Service Environment and learn the art of developing constructive bots by leveraging Microsoft Bot Framework Features and Functionalities. It also shed light on the development of Customer Support Bots with Microsoft QnA Maker and provides the basic knowledge of the Cortana skills integration. Professionals also learn how to design bot experiences compatible with leading platforms such as IOS Devices, Androids, and Windows. This course encompasses a combination of theoretical teachings and practical labs designed to help professionals develop AI-Infused and Intelligent Bot Experiences.

Course Objectives:

The core objective of this course is to help professionals gain a better understanding and conceptual knowledge of the following key elements:

- Bot Experiences Development such as Guided Conversation
- Bot Experience Integration with Knowledge Base
- Developing Models for Deciphering Language
- Bot Experiences and Language Understanding Integration
- Speech Synthesis and Bot Experiences Integration
- Third-Party Channels Bot Deployment
- Cortana Skills Bots Development
- Using AI Technology to Develop Cortana Skill Bot

Audience:

- Professionals Programmers
- IT Experts and Developers

Prerequisites:

Professionals planning to enroll in the Conversation as a Platform and Microsoft Bot Framework course must comply with the following prerequisites:

- Intermediate-Level C-Based Language Coding Skills such as C, C#, Java, and C++
- Fundamental knowledge of Node.js is highly recommended but not obligatory
- Basic Understanding of JavaScript is highly recommended but not obligatory

Course Outline:

The course outline is as follows:

The Microsoft Bot Framework

- Introduction to Bots
- Microsoft Bot Framework Overview
- Message Concepts
- Activity-Using the Bot Framework Emulator
- Channels
- Attachments and Cards
- Dialogs and Forms
- Maintaining State
- Lab-Developing a Conversation Bot
- Assessments

Azure Bot Service

- Azure Bot Service Overview
- Knowledge Base Concepts
- Activity-Creating a Knowledge Base
- Service Integration
- Lab-Developing a Knowledge Base Bot
- Assessments

Language Understanding

- Language Understanding Overview
- Language Understanding Concepts
- Authoring Language Understanding Applications
- Lab-Creating a LUIS Application
- Integrating Language Understanding
- Lab-Developing a Language Understanding Bot
- Assessments

Cortana Skills

- Cortana Skills Overview
- Cortana Skills Concepts
- Cortana Testing and Publishing
- Platforms and Devices
- Lab-Developing a Cortana Skill Bot
- Assessments

Final Project

- Lab-Creating and Deploying Cortana Skill with the Microsoft Bot Framework
- Required Coding Activity
- Post-Course Survey