

1600 XP

Connecting IoT devices to Azure AI services using Azure Functions

1 hr 16 min • Module13 Units

Intermediate

Al Edge Engineer

Azure IoT Hub

Create and deploy an Azure function to make a language translation IoT device. The function will use Cognitive Speech Service. Your device will record a voice in a foreign language and convert the speech to a target language.

Learning objectives

In this module, you will:

- Configure an IoT device to an IoT Hub
- Integrate Cognitive Speech Service into an Azure function
- Deploy an Azure function app
- Test your Azure function app with an IoT device

"Produced in partnership with the University of Oxford – Ajit Jaokar, Artificial Intelligence: Cloud and Edge Implementations course."





Prerequisites

- Familiarity with Azure
- Basic understanding of IoT
- Basic knowledge of Azure Functions
- Basic knowledge of Azure Al services
- A MXChip IoT DevKit board with a Micro-USB cable
- A computer running Windows 10, macOS 10.10+ or Ubuntu 18.04+
- An active Azure subscription
- Visual Studio Code installed on your computer

- Arduino IDE installed on your computer
- .NET SDK installed on your computer

This module is part of these learning paths

Al edge engineer

Introduction

4 min

Design Azure Al services using Azure Functions

6 mir

How to configure IoT device to the IoT Hub

5 min

Exercise - Configuring IoT device to the IoT Hub

10 min

Knowledge check

5 min

How to create Azure AI services

4 min

How to deploy Azure Functions

4 min

How to deploy device code to the IoT device

5 min

Exercise - Deploying Azure AI services as Azure Functions to the IoT device

15 min

Knowledge check

5 min

Exercise - Customizing Azure Al services as Azure Functions

7 min

Knowledge check

3 min

Summary

3 min