

# Azure AI Engineer Learning Pathway (1/2)

[www.aka.ms/pathways](https://www.aka.ms/pathways)

## Getting started



### Zero to hero in 4 weeks with Azure AI

A guide to achieving artificial intelligence expertise on Azure

With cloud AI services and tools, now every developer can leverage AI to create innovative applications that solve complex problems.

This guide will show you how to create the next generation of applications using Azure AI in only 4 weeks. By committing less than an hour each day—think coffee-fueled morning ritual or mid-afternoon break—you'll be able to build intelligent apps confidently with the tools and frameworks of your choice.

Each week you'll watch a video on foundational concepts of Azure AI, complete a step-by-step training, and try what you've learned with a hands-on exercise. This will give you the expertise you need to successfully complete your Azure AI Fundamentals certification.

Let's get started!



**DOWNLOAD**



### Audience Profile

Software engineers concerned with building, managing and deploying AI solutions that leverage Azure Cognitive Services, Azure Cognitive Search, and Microsoft Bot Framework. They are familiar with C# or Python and have knowledge on using REST-based APIs to build computer vision, language analysis, knowledge mining, intelligent search, and conversational AI solutions on Azure.



### Getting Started:

- [New to the Cloud or Azure? Start with Azure Fundamentals](#)
- [New to AI on Azure? Check out our Azure AI Fundamentals certification](#)
- [Watch the Azure AI Essentials video series to get familiar with Azure AI products and services and learn how to bring these components together to build AI applications > HERE](#)

### Microsoft Learn

- [Build your Tech resilience](#)
- [Get started with artificial intelligence on Azure](#)
- [Microsoft AI Business School](#)
- [Microsoft AI & Machine Learning Blog](#)
- [Azure Developer Guide](#)
- [Responsible AI Principles](#)
- [Choose a bot-building tool](#)
- [Computer Vision](#)
- [Cognitive Service for Language](#)
- [Azure Cognitive Services](#)
- [Speech service documentation](#)
- [Anomaly Detector API Documentation](#)

# Azure AI Engineer Learning Pathway (2/2)

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## Additional Study

### Cognitive Services

- [What are Azure Cognitive Services?](#)
- [Quickstart: Create a Cognitive Services resource using the Azure portal](#)
- [Provision and manage Azure Cognitive Services](#)
- [Azure Cognitive Services – Privacy Policy](#)
- [Manage Cognitive Services keys](#)
- [Authenticate requests to Azure Cognitive Service](#)

### Computer Vision

- [What is Computer Vision?](#)
- [Optical Character Recognition \(OCR\)](#)
- [What is the Ink Recognizer API?](#)
- [What is Form Recognizer?](#)
- [Cognitive Service Containers](#)
- [Process and classify images with the Azure Cognitive Vision Services](#)
- [Quickstart: Build a classifier with the Custom Vision website](#)
- [Quickstart: Build an object detector with the Custom Vision website](#)
- [Deploy a model to Azure Container Instances](#)

### Natural Language

- [Process natural language with Azure Cognitive Language Services](#)
- [Process and Translate Speech with Azure Cognitive Speech Services](#)
- [What is the Translator service?](#)
- [How to extract key phrases using Text Analytics](#)
- [Sentiment analysis and Opinion Mining](#)
- [Tutorial: Extract structured data from user utterance with machine-learning entities in Language Understanding \(LUIS\)](#)
- [Train your active version of the LUIS app](#)

### Natural Language

- [Batch testing with a set of example utterances](#)
- [Publish your active, trained app to a staging or production endpoint](#)
- [Deploy and run container on Azure Container Instance](#)

### Knowledge Mining

- [Knowledge Mining Introduction](#)
- [Introduction to Azure Cognitive Search](#)
- [Implement knowledge mining](#)
- [Creating search indexes in Azure Cognitive Search](#)
- [Create Indexer \(Azure Cognitive Search REST API\)](#)
- [Autocomplete and Suggestions](#)
- [Synonyms in Azure Cognitive Search](#)
- [Security overview for Azure Cognitive Search](#)
- [Scale for performance on Azure Cognitive Search](#)
- [Data import overview – Azure Cognitive Search](#)

### Conversational AI

- [Create conversational AI solutions](#)
- [QnA Maker – Overview](#)
- [Create a new QnA Maker service](#)
- [Plan your QnA Maker app](#)
- [Migrate a knowledge base using export-import](#)
- [Create a bot with Azure Bot Service](#)
- [Dialogs library](#)
- [Plan your QnA Maker app](#)

Cognitive Services

Generative AI Learning Companion

## Role Based Certification

### Azure AI Engineer

### AI-102: Designing and Implementing a Microsoft Azure AI Solution

#### Skills Measured (AI-102)

- Plan and manage an Azure AI solution (25–30%)
- Implement image and video processing solutions (15–20%)
- Implement natural language processing solutions (25–30%)
- Implement knowledge mining solutions (5–10%)
- Implement conversational AI solutions (15–20%)

#### Microsoft Learn:

- [Prepare for AI engineering](#)
- [Provision and manage Azure Cognitive Services](#)
- [Process and translate text with Azure Cognitive Services](#)
- [Process and Translate Speech with Azure Cognitive Speech Services](#)
- [Create a Language Understanding solution](#)
- [Build a question answering solution](#)
- [Build custom text analytics solutions](#)
- [Create conversational AI solutions](#)
- [Create computer vision solutions with Azure Cognitive Services](#)
- [Extract text from images and documents](#)
- [Implement knowledge mining with Azure Cognitive Search](#)
- [Develop AI solutions with Azure OpenAI](#)

Exam Study Guide

Course Page

Practice Assessment

Exam Page