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!
Your journey to success

There's so much to learn about Azure AI. Don’t worry- we’ve curated an easy to understand journey to drive you towards certification in only 4 weeks. Each week you’ll watch a video on foundational concepts, learn from a step-by-step training, and try skills for yourself with a hands-on exercise. Click on the icon to jump to that week’s training.

Before you begin, click here to prepare for your journey.

**WEEK 1**
**Tour the Basics**
Learn about key AI concepts and tools, and how to easily get started with AI on Microsoft Azure.

**WEEK 2**
**Experience Computer Vision**
Find out how to solve common computer vision problems using Azure Cognitive Services.

**WEEK 3**
**Explore Speech and Language**
Discover how to incorporate natural language processing and speech capabilities into your apps and bots.

**WEEK 4**
**Discover Cognitive Search**
See how to transform raw, unstructured information into searchable content.

**Attain Azure AI Fundamentals certification**
Prepare for your journey

Make sure to complete the following tasks before you hit the road. Then use the navigation bar to return to your Learning Journey and start your training, or click ahead to move to week 1.

- Sign up for the 30 Days to Learn It challenge, and after completing all required learning modules, you'll be eligible to receive 50 percent off a Microsoft Certification exam*.

*Visit Terms & Conditions to learn more.

- Start an Azure Free Trial or use your existing Azure subscription. You'll need it for hands-on learning.
Week 1

Tour the basics

Azure AI enables you to build on your terms. With Azure, you can build applications using the languages and tools of your choice, and deploy your AI models anywhere. Whether you want to leverage pre-built models, build custom models with code-first or code-free experiences, or do advanced machine learning, Azure is a great place to get started with AI.

Spend this first week learning the essentials—we’ll cover key AI concepts and introduce the Azure AI services to help you bring capabilities like speech, vision, language, decision, and search to your applications, no matter your skill level. We’ll provide step-by-step guidance to show how easy it is to add value to your applications.

Click ahead to access this week’s trainings >
Click the box to launch each module. Once completed, be sure to check the box to easily track your progress.

**W A T C H**

15 mins
**Intro to Azure AI**
Get an overview of what AI can enable and how you can harness the power of Azure AI services to create breakthrough experiences.

**L E A R N**

30 mins
**Get started with artificial intelligence on Azure**
Discover the easy-to-use services Azure provides to help you get started with AI.

3 hrs 30 mins
**Create no-code predictive models with AML**
Find out how to use Azure Machine Learning to create and publish multiple types of models without writing code.

Use the navigation bar to return to your Learning Journey and preview next week or click ahead to move to week 2.
Week 2

Experience Computer Vision

Computer vision enables software systems to perceive the world visually, through cameras, images, and video. With Azure Cognitive Services, it's easy to add computer vision capabilities to your apps.

This week we'll use computer vision examples to illustrate foundational concepts of building AI-powered applications on Azure – whether you want to leverage APIs and SDKs, or create an app without writing a single line of code. You'll also get a chance to practice using Custom Vision to build an object detection model with a step by step tutorial.

Click ahead to access this week's trainings >
Click the box to launch each module. Once completed, be sure to check the box to easily track your progress.

**WATCH**

15 mins
**Easily add AI to your applications**
Learn foundational concepts of working with Azure Cognitive Services, through the example of creating an object detection application.

**LEARN**

3 hrs
**Explore computer vision**
Understand how to solve computer vision problems using pre-built and custom AI models.

**TRY**

30 mins
**Custom Vision – Build an Object Detector**
Create, train, and test an object detection model. Choose your preferred format to complete the exercise:
- **Web Portal**, or
- **SDK** (Option enables you to use the language of your choice)

Use the navigation bar to return to your Learning Journey and preview next week or click ahead to move to week 3.
Week 3

Explore Speech and Language

Speech and natural language processing capabilities can be used to enhance many types of apps and services, from building a chatbot, to modernizing your call center, to making your application more accessible to low-vision users or to a global population.

Your week ahead focuses on how the speech transcription, translation, and language understanding capabilities of Azure AI can be applied to solve a range of business challenges. We’ll walk you through two common challenges starting with an overview of each use case at the enterprise level, followed by an in-depth training on the AI components of a successful solution. Then practice your new learnings using our sample code to build solutions for common user scenarios. We can’t wait to see what you create!

Click ahead to access this week’s trainings >
Click the box to launch each module. Once completed, be sure to check the box to easily track your progress.

**WATCH**

1. **Build a chatbot**
   - 15 mins
   - Dive into the various components of Azure AI that you can use to build bots.

2. **Explore conversational AI**
   - 30 mins
   - Use the QnA Maker service and Azure Bot Service to create a bot that answers user questions.

**LEARN**

3. **Virtual Assistant Hands-on Exercise**
   - 2 hr
   - Play with sample code to build your own intelligent grocery bot app.

4. **Create an intelligent call center**
   - 15 mins
   - Find out how you can use Azure AI to transform the call center experience.

5. **Explore NLP**
   - 2 hrs
   - Discover how to use Azure Cognitive Services to build apps supporting natural language.

**TRY**

6. **Travel Journal App Hands-on Exercise**
   - 1 hr
   - Build a travel journal app to explore Azure AI services including language and speech Cognitive Services.

Use the navigation bar to return to your Learning Journey and preview next week or click ahead to move to week 4.
Week 4

Discover Cognitive Search

Real-world data is messy. It often spans media types, changes constantly, and carries valuable knowledge that's not always readily usable. Azure Cognitive Search is a cloud search service that can help you build a rich search experience into your apps.

This week we'll break down how Cognitive Search works in three easy steps and show you how to use it with Azure AI's vision and decision capabilities, to transform raw, unstructured information into searchable content. Then you'll get to tackle a fun challenge! We'll provide sample code for you to build a knowledge mining solution that extracts valuable insights from your documents, images, and media.

Click ahead to access this week's trainings >
Click the box to launch each module. Once completed, be sure to check the box to easily track your progress.

**WATCH**

15 mins
Use AI to automate document processing
See how organizations across industries rely on Azure AI to automate their document processing.

**LEARN**

1 hr
Implement knowledge mining with Azure Cognitive Search
Discover how to use Azure Cognitive Search to easily identify and explore relevant content at scale.

**TRY**

1 hr
Personal Finance App Hands-on Exercise
Use sample code to build an app that can help you manage personal expenses.

Use the navigation bar to click ahead to complete your journey.
Congratulations you’ve completed your training! Now, you’re ready to create the next generation of apps using Azure AI.

**Schedule your Azure AI Fundamentals certification exam**
Show the world you’re equipped with the core skills for working with Azure AI services. After completing the ‘30 Days to Learn It’ challenge, you’ll receive an email with instructions for how to redeem your 50% discount for the Microsoft certification exam.

**Engage with us on our AI developer resource page**
Check out a curated set of resources for AI developers, get the latest Azure AI updates, and more.

**Check out our ML for Data Scientists journey**
Try our data scientist learning journey to achieve ML expertise on Azure.