



MICROSOFT TRAINING

Build Azure Ai Vision Course

Build powerful AI Vision applications with Azure. Master image processing, object detection, and custom vision models.

DURATION

48 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

-
- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

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COURSE OVERVIEW

The "Build Azure AI Vision Course" at Computer Pride is an intermediate-level program designed to equip IT professionals, developers, and data scientists with the expertise to leverage Microsoft Azure's powerful AI Vision services. This course delves into the core technologies behind intelligent image and video processing, enabling you to build sophisticated applications that can see, understand, and interpret visual content. You will master critical skills such as image analysis, object detection, facial recognition, and Optical Character Recognition (OCR).

Throughout this 48-hour intensive training, participants will gain hands-on experience with Azure AI Vision APIs, Custom Vision service, and related tools, learning to integrate these capabilities into various applications. From enhancing user experiences with smart search functionalities to automating business processes with document intelligence, this course provides the practical knowledge and confidence to develop cutting-edge AI-driven vision solutions. Elevate your career by becoming proficient in a highly demanded area of artificial intelligence, crucial for industries ranging from retail and manufacturing to healthcare and security.

Duration	48 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to Azure AI Vision Services

- Overview of Azure AI Services and Cognitive Services
- Understanding Azure AI Vision capabilities and use cases
- Setting up Azure AI Vision resources in the Azure portal
- Authentication methods for Azure AI Vision APIs (keys, managed identities)
- Fundamentals of computer vision: pixels, images, and feature extraction

02 Module 2: Image Analysis and Object Detection

- Performing image analysis to detect objects, scenes, and activities
- Generating intelligent image captions and tags automatically
- Implementing content moderation and safety features for visual content
- Extracting image properties, dominant colors, and metadata
- Working with bounding boxes and confidence scores for object detection

03 Module 3: Facial Recognition and Biometric Solutions

- Detecting and analyzing human faces (attributes, emotions, landmarks)
- Identifying known individuals using Face API and Person Groups
- Verifying identity with facial biometrics and similarity comparisons
- Understanding and addressing privacy and ethical considerations in facial recognition
- Building applications for attendance systems and access control

04 Module 4: Optical Character Recognition (OCR) and Document Intelligence

- Extracting printed and handwritten text from images and documents using OCR
- Working with Azure AI Vision's Read API for advanced text extraction
- Introduction to Azure AI Document Intelligence (formerly Form Recognizer)
- Extracting structured data from invoices, receipts, and custom forms
- Developing solutions for data entry automation and document processing

05 Module 5: Custom Vision and Model Training

- Introduction to Azure Custom Vision service for tailored AI models
- Building custom image classification models for specific categories
- Developing custom object detection models for unique objects
- Strategies for data labeling, dataset preparation, and augmentation
- Training, evaluating, iterating, and deploying custom models

06 Module 6: Integrating and Deploying Azure AI Vision Solutions

- Integrating Azure AI Vision services into web, mobile, and desktop applications
- Best practices for performance optimization and scalability
- Monitoring and managing Azure AI Vision resources
- Ensuring security and compliance for AI vision applications
- Real-world case studies and end-to-end project implementation

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **AI Developer specializing in Computer Vision**
- > **Azure Machine Learning Engineer**
- > **Computer Vision Solutions Architect**

FREQUENTLY ASKED QUESTIONS

Q: What foundational programming knowledge or Azure experience is recommended before enrolling in this course?

This intermediate-level course assumes a basic understanding of programming concepts, preferably in Python or C#, and familiarity with the Azure portal. While not strictly required, prior exposure to cloud computing fundamentals would be beneficial for grasping the deployment aspects of Azure AI Vision services and maximizing your learning experience.

Q: How will this course specifically prepare me to develop real-world computer vision applications?

The "Build Azure AI Vision Course" is highly practical. You will engage in hands-on labs and project-based learning to integrate Vision APIs into various applications, perform custom model training for unique use cases, and tackle scenarios like advanced image analysis, precise object detection, and intelligent OCR. The curriculum is designed to equip you with the tangible skills to design, build, and deploy robust AI vision solutions from concept to production.

Q: Does this course cover ethical AI principles and responsible deployment of computer vision technologies?

Yes, throughout the modules, we integrate discussions on ethical AI principles, data privacy, and responsible practices when developing and deploying computer vision solutions. This includes guidance on mitigating bias, ensuring transparency, and understanding the societal impact of AI, particularly in sensitive areas like facial recognition and content moderation. Building trustworthy AI applications is a core emphasis.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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