



PYTHON TRAINING

Python Vision Course

*Master Python Vision to develop advanced computer vision and image processing applications.
Gain skills to build AI-driven visual solutions.*

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

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

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COURSE OVERVIEW

Embark on a rapid yet impactful journey into the world of Computer Vision with Python through Computer Pride's specialized Python Vision Course. In just two intensive hours, this intermediate-level program will equip you with the foundational skills to understand, process, and analyze visual data using the power of Python and leading computer vision libraries. You'll dive into the core concepts that drive image recognition, object detection, and visual automation, gaining hands-on experience that bridges theoretical knowledge with practical application.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Foundations of Computer Vision with Python

- Introduction to Computer Vision and its real-world applications
- Setting up the OpenCV-Python development environment
- Reading, displaying, and writing images with OpenCV
- Understanding image properties (dimensions, pixel values) and basic pixel manipulation

02 Module 2: Essential Image Processing Techniques

- Color space conversions (Grayscale, RGB, HSV)
- Geometric transformations (Resizing, Cropping, Rotation)
- Image thresholding and binarization for segmentation
- Basic drawing primitives (lines, rectangles, circles, text) on images

03 Module 3: Filtering and Feature Extraction Basics

- Image blurring and smoothing filters (Gaussian, Median, Average)
- Edge detection algorithms (Sobel, Canny)
- Morphological operations (Erosion, Dilation, Opening, Closing)
- Introduction to contours and basic shape analysis

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Computer Vision Engineer**
- > **AI/Machine Learning Operations Analyst focused on Vision Data**
- > **Image Processing Specialist in Quality Assurance**

FREQUENTLY ASKED QUESTIONS

Q: What prior Python knowledge or experience is recommended for the Python Vision Course?

A solid understanding of Python fundamentals, including data types, control flow (loops, conditionals), functions, and basic object-oriented programming concepts, is crucial. While no prior computer vision experience is required, a foundational grasp of Python will ensure you can fully leverage the practical exercises and concepts taught.

Q: What practical skills will I gain immediately after completing this 2-hour Python Vision Course?

Upon completion, you will be proficient in fundamental image loading, manipulation, and applying common image processing filters. You'll be able to perform tasks such as resizing images, converting color spaces, detecting edges, and segmenting regions of interest, laying a strong foundation for more advanced computer vision projects and analysis.

Q: Can I build a simple image processing application after completing this course?

Yes, by the end of this course, you will possess the foundational knowledge to develop simple Python scripts for a variety of image processing tasks. This includes converting images to grayscale, applying various blur effects, detecting basic shapes, or even preparing image datasets for integration into more complex machine learning models.

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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