QUEST
Professional Center

PROFESSIONAL TRAINING COURSE

Course No. 1193

Computer Vision Training Course

MACHINE LEARNING & COMPUTER VISION
ARTIFICIAL INTELLIGENCE & APPLICATIONS

DURATION
5 Days

DELIVERY
Classroom

LOCATION
Online, Online

DATES
4 – 8 Oct 2026

Scheduled Event Details

CITY	Online, Online
DATE	4 – 8 Oct 2026
DELIVERY TYPE	Classroom
COURSE FEE	€2,700

Course Overview

The Computer Vision Training Course is a comprehensive professional development program designed to equip executives, managers, AI specialists, data scientists, software engineers, and technical professionals with the knowledge and practical skills required to develop, implement, and manage Computer Vision solutions within modern organizations. As Artificial Intelligence continues to transform industries worldwide, Computer Vision has become one of the most influential technologies for enabling machines to interpret images, videos, and visual data, allowing organizations to automate inspections, improve operational efficiency, strengthen decision-making, and accelerate digital transformation initiatives.

Government entities, ministries, public sector organizations, banks and financial institutions, oil and gas companies, manufacturing organizations, healthcare providers, educational institutions, transportation authorities, logistics companies, telecommunications providers, and multinational corporations increasingly rely on Computer Vision technologies to automate quality inspection, monitor critical infrastructure, enhance physical security, analyze video streams, detect anomalies, recognize objects, improve workplace safety, optimize asset management, and support predictive maintenance. These capabilities enable organizations to reduce operational costs, improve service quality, increase accuracy, and make faster, data-driven decisions.

This course focuses on the complete Computer Vision development lifecycle, covering digital image processing, image acquisition, dataset preparation, feature extraction, machine learning, deep learning, Convolutional Neural Networks (CNNs), object detection, image segmentation, facial recognition, video analytics, intelligent inspection systems, optical character recognition (OCR), multimodal AI integration, responsible AI, governance, cybersecurity, privacy, regulatory compliance, model deployment, and enterprise implementation best practices. Participants will gain practical experience in designing Computer Vision applications that address real-world organizational challenges while supporting innovation and business transformation.

The Computer Vision Training Course combines interactive workshops, hands-on exercises, enterprise case studies, and internationally recognized best practices to help participants confidently develop and deploy Computer Vision solutions across multiple industries. By the end of the course, participants will be able to identify high-value Computer Vision opportunities, develop AI-powered visual intelligence systems, automate image-based business processes, improve operational performance, strengthen organizational decision-making, and support sustainable enterprise AI adoption.

Objectives

- Analyze the principles, technologies, and enterprise applications of Computer Vision.
- Develop practical skills for designing and implementing Computer Vision solutions.
- Evaluate business opportunities suitable for Computer Vision implementation.
- Apply image processing, feature extraction, and deep learning techniques.
- Design AI-powered visual intelligence solutions that support organizational objectives.
- Improve operational efficiency through image and video automation technologies.
- Strengthen understanding of responsible AI, governance, cybersecurity, privacy, intellectual property, and regulatory compliance.
- Implement best practices for evaluating, validating, and optimizing Computer Vision models.
- Assess technical, operational, ethical, and security risks associated with Computer Vision applications.
- Align Computer Vision initiatives with organizational strategy, innovation, and digital transformation goals.

Who Should Attend

This course is designed for executives, digital transformation leaders, AI specialists, machine learning engineers, data scientists, software developers, IT managers, solution architects, innovation managers, project managers, operations managers, quality assurance professionals, automation engineers, business analysts, consultants, researchers, and decision-makers responsible for enterprise AI implementation.

The program is equally valuable for professionals working in government entities, ministries, public

sector organizations, banks and financial institutions, oil and gas organizations, manufacturing companies, healthcare providers, transportation authorities, logistics companies, educational institutions, telecommunications companies, consulting firms, and multinational corporations seeking to leverage Computer Vision technologies to improve operational performance and digital services.

Professionals responsible for industrial automation, quality control, asset management, physical security, infrastructure monitoring, predictive maintenance, intelligent inspection, safety management, analytics, research and development, innovation, governance, and compliance will benefit from the practical methodologies and implementation frameworks covered throughout the course.

Learning Outcomes

- By the end of this course, participants will be able to:
- Explain the principles and technologies of Computer Vision.
- Prepare image and video datasets for Computer Vision model development.
- Apply image processing and deep learning techniques to solve business challenges.
- Develop Computer Vision models for object detection, image classification, and video analytics.
- Utilize Convolutional Neural Networks (CNNs) and modern Computer Vision architectures.
- Evaluate Computer Vision model performance using appropriate metrics and validation techniques.
- Apply responsible AI principles while ensuring cybersecurity, privacy, governance, and regulatory compliance.
- Integrate Computer Vision solutions into enterprise systems and operational workflows.
- Identify strategic opportunities for applying Computer Vision across multiple industries.
- Develop implementation roadmaps for scalable and sustainable enterprise Computer Vision adoption.

Course Outline

DAY 01

Foundations of Computer Vision

- Introduction to Artificial Intelligence and Computer Vision
- Fundamentals of digital image processing
- Computer Vision lifecycle and enterprise applications
- Business opportunities across industries

PRACTICAL WORKSHOP ON IDENTIFYING COMPUTER VISION USE CASES

DAY 02

Image Processing and Deep Learning

- Image acquisition and dataset preparation
- Image preprocessing and feature extraction
- Convolutional Neural Networks (CNNs)
- Image classification and object detection

PRACTICAL EXERCISE ON DEVELOPING COMPUTER VISION MODELS

DAY 03

Advanced Computer Vision Applications

- Video analytics and object tracking
- Image segmentation and pattern recognition
- Optical Character Recognition (OCR)
- Intelligent inspection systems and quality assurance

WORKSHOP

Workshop on building Computer Vision solutions for enterprise scenarios

DAY 04

Enterprise Computer Vision Implementation

- Integrating Computer Vision with enterprise systems
- Intelligent automation using visual data
- Responsible AI, governance, cybersecurity, privacy, intellectual property, and regulatory compliance
- Measuring operational performance and business value

PRACTICAL

Practical workshop on implementing Computer Vision solutions in organizational environments

DAY 05

Building an Enterprise Computer Vision Strategy

- Future trends in Computer Vision and AI
- Scaling Computer Vision capabilities across the organization
- International best practices for enterprise implementation
- Organizational change management and continuous innovation

FINAL WORKSHOP

Final workshop involving the development of a comprehensive enterprise Computer Vision strategy integrating image processing, deep learning, object detection, image classification, video analytics, OCR, intelligent inspection, multimodal AI, governance, cybersecurity, privacy, regulatory compliance, risk management, performance measurement, organizational readiness, and continuous improvement to maximize operational excellence, digital transformation, innovation, and sustainable business success.

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Register or Request More Information

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