



Consulting and Training | Reach New Heights

Course Name

Deep Learning For AI And Computer Vision - MIT

Sector Name

Information Technology

Document Type

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Course Introduction

Deep learning technologies are experiencing rapid advancement, leading to remarkable achievements in the field of computer vision. Today, robots and unmanned aerial vehicles no longer merely “see” their surroundings; they are now capable of responding to and learning from the environment around them. Likewise, self-driving cars can avoid accidents by analyzing visual signals in their surroundings and extracting meaningful patterns and semantics.

This course focuses on the latest developments in visual artificial intelligence, highlighting advanced deep learning techniques—particularly Convolutional Neural Networks (CNNs)—which enable intelligent vision systems to recognize, interpret, reason about, and interact with images with high accuracy.

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Target Audience

- ✓ **AI and Machine Learning Engineers:** Professionals working in AI development who want to deepen their understanding of deep learning techniques, specifically in the context of computer vision.
- ✓ **Data Scientists:** Individuals involved in data analysis and model building, who want to apply deep learning models to vision-related tasks such as image classification, object detection, and segmentation.
- ✓ **Software Developers:** Developers working with AI and computer vision applications who want to expand their expertise in deep learning algorithms and frameworks like TensorFlow or PyTorch.
- ✓ **Computer Vision Specialists:** Experts or aspiring specialists who are focused on computer vision applications and want to learn how to use deep learning techniques to enhance visual recognition and analysis.

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Learning Objectives

- ✓ Understand the fundamental concepts and applications of computer vision.
- ✓ Comprehend the principles of modern neural networks.
- ✓ Identify low-level image processing techniques such as filtering and edge detection.
- ✓ Distinguish between high-level vision tasks, including object and scene recognition, face detection, and human action classification.
- ✓ Develop practical skills to build accurate and advanced computer vision applications.

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Course Outline

✓ DAY 01

Introduction to Computer Vision (Torralba)

- ✓ Cameras and Image Formation (Torralba)
- ✓ Introduction to Machine Learning (Isola)
- ✓ The Generalization Problem in Models (Isola)
- ✓ Hands-on session using PyTorch

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Course Outline

✓ Day 02

Neural Networks (Isola)

- ✓ Filters and Convolutional Neural Networks (CNNs) (Torralba)
- ✓ Stochastic Gradient Descent (Torralba)
- ✓ Temporal Processing and Recurrent Neural Networks (RNNs) (Isola)
- ✓ Hands-on session using modern computational infrastructure

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Course Outline

✓ Day 03

Multi-view Geometry (Torralba)

- ✓ 3D Deep Learning (Torralba)
- ✓ Scene Understanding (Isola)
- ✓ Hands-on session on scene understanding

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Course Outline

✓ Day 04

Understanding People (Torralba)

- ✓ Vision and Language (Torralba)
- ✓ Image Generation and Generative Models (Isola)

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Course Outline

✓ DAY 5

Augmented/Virtual Reality and Graphics Applications (Isola)

- ✓ Hands-on session on Generative Adversarial Networks (GANs)

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 24, 2027	May 28, 2027	5 days	4250.00 \$	UAE , Dubai
Aug. 1, 2027	Aug. 5, 2027	5 days	4250.00 \$	KSA , Riyadh
Nov. 23, 2026	Nov. 27, 2026	5 days	2150.00 \$	UAE , Dubai
April 19, 2027	April 23, 2027	5 days	5950.00 \$	USA , Massachusetts

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