



**iUniversity**  
BY IYDA

## **Executive Certificate in Deep Learning & Computer Vision**

### **iUniversity by IYDA**

Duration	6 Months
Learning Hours	210 Hours
Mode	Online / Offline / Hybrid
Eligibility	Graduate / Final Year Students / Working Professionals
Level	Beginners to Advanced
Certification	Executive Certificate from iUniversity by IYDA

#### ***Module 1: Foundations of Deep Learning***

Practical learning through hands-on labs, assignments, and real-world applications.

#### ***Module 2: Python Programming for AI***

Practical learning through hands-on labs, assignments, and real-world applications.

#### ***Module 3: Neural Networks and Perceptrons***

Practical learning through hands-on labs, assignments, and real-world applications.

#### ***Module 4: TensorFlow and Keras Frameworks***

Practical learning through hands-on labs, assignments, and real-world applications.

#### ***Module 5: Convolutional Neural Networks (CNNs)***

Practical learning through hands-on labs, assignments, and real-world applications.

#### ***Module 6: Image Processing Fundamentals***

Practical learning through hands-on labs, assignments, and real-world applications.

#### ***Module 7: Computer Vision Techniques***

Practical learning through hands-on labs, assignments, and real-world applications.

### ***Module 8: Object Detection and Tracking***

Practical learning through hands-on labs, assignments, and real-world applications.

### ***Module 9: Image Segmentation and Classification***

Practical learning through hands-on labs, assignments, and real-world applications.

### ***Module 10: Transfer Learning and Pre-trained Models***

Practical learning through hands-on labs, assignments, and real-world applications.

### ***Module 11: Model Deployment and Optimization***

Practical learning through hands-on labs, assignments, and real-world applications.

### ***Module 12: Capstone Project and Industry Case Studies***

Practical learning through hands-on labs, assignments, and real-world applications.

### ***Tools & Technologies Covered:***

- Python
- TensorFlow
- Keras
- OpenCV
- NumPy
- Pandas
- Matplotlib
- Jupyter Notebook
- Google Colab
- GitHub

### ***Career Opportunities:***

- Deep Learning Engineer
- Computer Vision Engineer
- AI Engineer
- Machine Learning Engineer
- Research Associate
- Image Processing Specialist
- Data Scientist