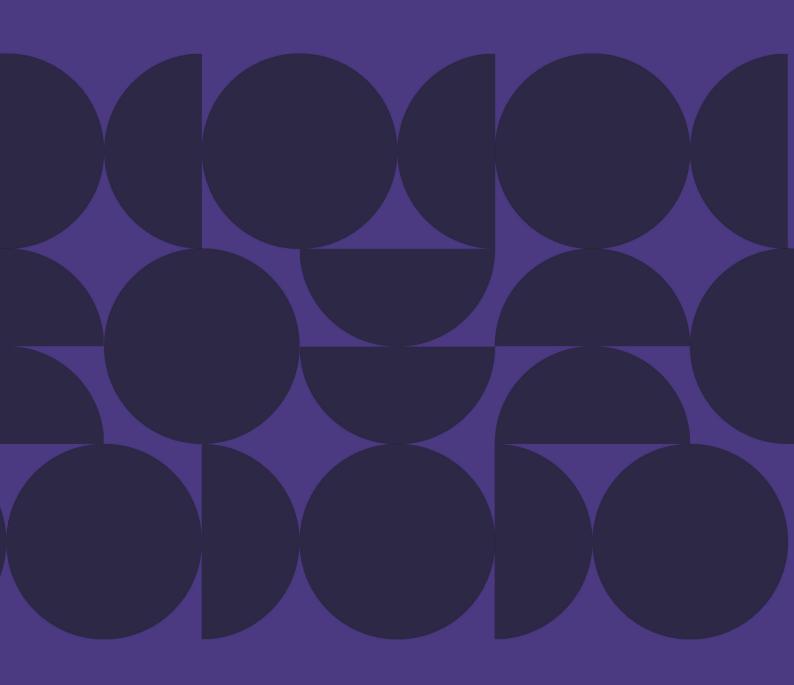
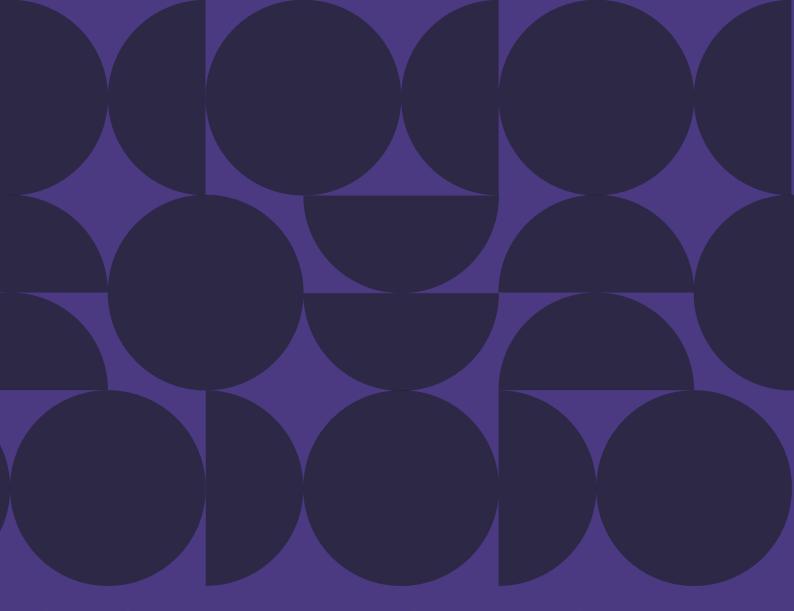


Artificial Intelligence And Robotics

PROFESSIONAL CERTIFICATE







Course Synopsis

This module introduces Al fundamentals, covering key technologies, industry applications, and ethical considerations.

Participants will explore how Al simulates human cognitive functions, progressing from theoretical concepts to hands-on applications like speech and face recognition.

The course emphasizes real-world use cases, enabling learners to understand Al's transformative role across industries while gaining practical skills to implement Al-driven solutions.

Learning Outcome

By the end of this module, participants will be able to:

- 1. Define Al and its core components.
- 2. Explain key Al technologies such as machine learning and deep learning.
- 3. Identify Al applications across industries.
- 4. Demonstrate Al functions like speech and face recognition.
- 5. Apply Al techniques in practical scenarios.
- 6. Evaluate ethical considerations in Al implementation.

Course Topics

- Python Programming Fundamentals
- Artificial Intelligence Basics
- Machine Learning & Deep Learning
- Computer Vision with OpenCV
- OpenVINO Optimization & Applications
- Al-driven Applications & Integration
- Introduction to Robotics
- Robotic Arm & Programming
- Multithreading & Data Processing
- Hands-on Project & Al Integration