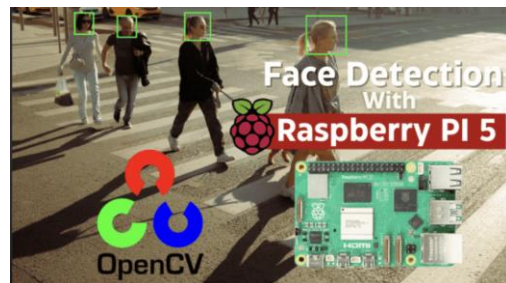


ROBOTICS and AI

ADVANCE LEVEL



AGES 16+

ARDUINO & PYTHON
ROBOTICS

A hands-on engineering track for students ready to think like makers. Students move from core electronics and coding into real AI fundamentals — building circuits, writing Python and C++, and training their first computer vision system on a working robot.

BUILD.
CODE.
TRAIN.
DETECT.

16+

AGE GROUP

24

SESSIONS

60

MINS / SESSION

3

MONTHS
DURATION

3

LEARNING
PATHWAYS

KIT

ARDUINO + RPI

✓

CAPSTONE
PROJECT

PROGRAM OVERVIEW

Discover the fundamentals of Electronics, Coding, and **Artificial Intelligence** through hands-on engineering with Arduino and **Python**.

Students build circuits, write real Python and C++ code, and train an AI vision system to detect faces and people in real time — laying the groundwork for advanced robotics.

SKILLS STUDENTS GAIN

- ✓ Electronics & Circuit Design
- ✓ Python & C++ Programming
- ✓ Microcontroller Integration
- ✓ Machine Learning Foundations
- ✓ Computer Vision
- ✓ Problem Solving & Collaboration

3 MONTHS LEARNING PATHWAYS

- 1 Electronics, Coding & AI Fundamentals**
Core electronics, microcontroller basics, and Python/C++ . microcontroller integration projects.
- 2 Intelligent Robotics & ML Foundations**
Introduction to planning and classification concepts in machine learning, applied through the build robot.
- 3 Computer Vision in Action**
Students implement real-time face and person detection on a live camera feed.

PROGRAMME DETAILS

Level: **Advance**

Duration: **3 Months**

Schedule: **24 Sessions · 60 min each**

Location: **Sport Society, Mirdiff**

Kit: **Arduino + Raspberry Pi**

Includes: **Real-time Face Detection Project**

START NOW

ENROLL NOW FOR ROBOTICS & AI

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BUILD REAL PROJECTS

LEARN BY DOING

THINK LIKE AN
ENGINEER

BUILD TODAY.
INNOVATE TOMORROW.