

AIO 2025 Training Calendar

Computer Vision	
1	Introduction to Computer Vision
2	Deep Neural Networks ANN and Stochastic Gradient Descent
3	Image Classification 1: The Convolutional Classifier
4	Image Classification 2: Activation and Pooling
	Live Session
5	Data Augmentation
6	Kaggle
7	Introduction to OpenCV
8	Object detection with OpenCV
	Live Session
Advanced Topics	
1	Object Detection with YOLO5 part1
2	Object Detection with YOLO5: Roboflow: Data Gathering, Image Preprocessing and Annotation tool
3	Object Detection with YOLO5 part3: Application

Embedded systems

1	Introduction : embedded systems, electricity basics
2	Serial and variables: Global and local variables, Serial communication
3	Digital output: Digital pins, LED blinking
4	Digital input: Push button, If statement
	Live Session
5	Analog output: LED brightness, Motor speed
6	Analog input: Temperature sensor, Automatic fan
7	Loops: For loop, Servo motor
8	Wireless communication Bluetooth connection
	Live Session
Advanced Topics	
1	Display: LCD
2	Internet of things: Introduction to ESP 32
3	Advance wireless communication: WIFI connection
4	IOT API's Universities

Coding

1	Output function: Print function, Variables
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2	Inputs: Input function, Type conversion
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3	Operators: Arithmetic operators, Logical operators
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4	Decision making: If statement, Else statement
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	Live Session
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5	Flow control: For loop
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6	Flow control: While loop
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7	Collection data: Lists, Tuples, Sets, Dictionaries
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8	Functions: Define functions, Call functions
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	Live Session
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Advanced Topics

1	Classes
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2	Advanced math functions and Math Module
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3	Arrays
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4	File Handling
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Machine Learning	
1	Introduction to Machine Learning
2	Supervised Learning: Regression
3	Supervised Learning: Classification
4	Underfitting and Overfitting
	Live Session
5	Preprocessing Data: Cleaning, Encoding, Splitting
6	Evaluation Metrics
7	Practice Project
8	Research and Data Gathering
	Live Session
Advanced Topics	
1	Unsupervised Learning: Clustering
2	Pipelines
3	Mutual Information
4	Feature engineering

Cybersecurity

1	Introduction to CyberSecurity Download and install Linux
2	Linux Fundamentals 1
3	Linux Fundamentals 2
4	Linux Fundamentals 3
	Live Session
5	introduction to Digital forensics
6	Basic programming using python
7	introduction to cryptography
8	introduction to web security
9	Challenges + OSINT
	Live Session
Advanced Topics	
1	Reverse Engineering - Universities
2	Password Attacks - Universities
3	Find Network Vulnerabilities - Universities