



# Announcement

Attendance link will be available around

4:30 PM.





# SEND VIDEO TESTIMONIAL

Send ur Video Testimonial to the +91 9003113840 Link in Description

Video Testimonial — Video Feedback

### **Al Hardware**

Al accelerators are a class of microprocessors, or microchips, designed to enable faster processing of Al applications, especially in machine learning, neural networks and computer vision.

They are usually designed as many core and focus on low-precision arithmetic, novel dataflow architectures or in-memory computing capability.

- CPU Central Processing Units
- GPU Graphics Processing Units
- FPGA Field Programmable Gate Arrays
- ASIC Application Specific Integrated Circuits



More computational power and cost-efficiency



Cloud and Edge computing



**Faster insights** 



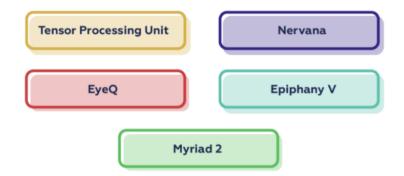
**New materials** 



New architectures

### **Popular AI Hardware Solutions**

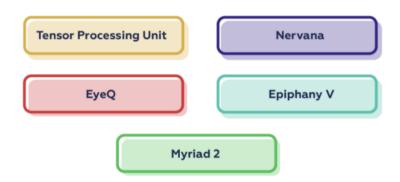
- TPU Al accelerator application-specific integrated circuit (ASIC) developed by Google specifically for neural network machine learning which features a cloud solution.
- Nervana Neural Network Processor-I 1000 is a discrete accelerator produced by Intel that is designed specifically for the growing complexity and scale of inference application.
- **EyeQ** it is of a family of system-on-chip (SoC) devices that are designed by Mobileye to support complex and computationally intense vision processing, maintaining low power consumption even while located on the windshield.



### **Popular AI Hardware Solutions**

• **Epiphany V** – It is a 1,024-core processor chip by Adapteva aimed at real-time image processing, autonomous driving, and machine learning.

 Myriad 2 - is a vision processor unit (VPU) systemon-a-chip (SoC) by Movidus comprises a set of programmable processors and a set of dedicated and configurable image and vision accelerators to power computational cameras.



### Dev. Boards for Al



NVidia Jetson Nano – RS: 14,000



BeagleBone Al Fast Track— RS: 10,000



Ai Thinker ESP32—RS: 842



Sipeed MAix BiT for RISC-V—RS: 2000



Coral Dev Board—RS: 16000



Raspberry Pi 4- RS: 3000

### Dev. Boards for Al



Neual Compute Stick—RS: 10,000







Arduino Portenta H7- RS: 10,500



Asus Tinker Board—RS: 5,500

# Best Performance / Wattage: Coral DevBoard

Best Flexibility: Jetson Nano

**Cheapest: Sipeed MAIX GO** 

Best Support: Raspberry Pi 4

Alternative for Raspberry Pi 4: ROCK Pi 4 Model B



### What u learnt.

#### ARTIFICIAL INTELLIGENCE

Overview of this course | Introduction to AI | How to create basic AI application (Chat bot using DialogFlow)

How to install Python & Libraries | Basics of python Programming for Al.

#### COMPUTER VISION

Introduction to Computer Vision| How to install computer vision libraries

Moving Object Detection and tracking using OpenCV

Face Detection and Tracking using OpenCV

Object Tracking based on colour using OpenCV

Face Recognition using OpenCV

Face Emotion recognition using 68-Landmark Predictor OpenCV

#### MACHINE LEARNING

#### Introduction to Machine learning| How to install ML libraries

Evaluating and Deploying the various ML model

Fake news detection using ML

Al snake game design using ML

#### DEEP LEARNING

#### Introduction to Deep learning | How to install DL libraries

Designing your First Neural Network

#### Object recognition from Pre-trained model

Image classification using Convolutional Neural Network

Hand gesture recognition using Deep Learning

Leaf disease detection using Deep Learning

Character recognition using Convolutional Neural Network

Label reading using Optical Character recognition

Smart Attendance system using Deep Learning

Vehicle detection using Deep Learning

#### License plate recognition using Deep Learning

Drowsiness detection using Deep Learning

Road sign recognition using Deep Learning

#### NATURAL LANGUAGE PROCESSING

Introduction to NLP & it's Terminology | How to install NLP Libraries NLTK

Title Formation from the paragraph design using NLP

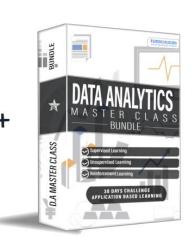
Speech emotion analysis using NLP

Deploying AI application in Raspberry Pi with Neural Compute stick & Nvidia Jetson Nano

## **3 Combo Course**







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