VECTOR INDIA

DRIVES YOU TO INDUSTRY

Machine Learning on Embedded Systems

LIVE ONLINE

2203
STUDENTS
PLACED IN 2021

630+
MNCs HIRED
IN 2021

All India Educational
Excellence Award
**Winner for
3 years in a row**

100%
GENUINE PLACEMENT
ASSISTANCE

MACHINE LEARNING ON EMBEDDED SYSTEMS

PREREQUISITE

- Hands on experience on C
- Basic Knowledge on Python
- Experience on Cortex M4 platform
- IMU sensor Interfacing

COURSE CONTENT

- Introduction to Machine Learning
- Machine Learning on Embedded Devices – Edge computing
- Machine Learning Software Framework
- Introduction to TensorFlow Lite
- Data collection from IMU sensor data
- Feature Extraction from Motion data
- Annotating Data
- Signal Processing Mechanism
- Classification Algorithm to Trian the model
- Creating Optimized firmware for Edge Computing
- Porting on Arduino Nano 33 BLE board
- Application Development – Gesture recognition using TensorFlow
  Lite Model on Edge ComputingV

HARDWARE REQUIREMENTS

- Arduino nano 33 BLE board
- ICM 20948 9 axis sensor
- Lithium-Ion Polymer Battery (3.7v 100mAh)