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 Train 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 Computing

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