

Data Science & Machine learning



Motive:

Our Data science and machine learning course intends to provide a deep understanding knowledge on the subject, in this program Embiot Technologies Pvt Ltd covering Eight sessions that has theory and practical approach. Internship Course includes python programming, linear

algebra, statistics, error matrix, machine learning and supporting algorithm.

Sessions are made to understand the building blocks of the data science and machine learning techniques, algorithms with application based hands on sessions.



Embedded and IoT Platform

Program Co-ordinator:

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Expert Trainer / Senior Software Developer

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Session 1

- Basics of Python

Session 2

OVER VIEW OF MACHINE LEARNING MATHEMATICS

- Linear algebra
- Calculus
- Probability

Session 3

DATA MANUPULATION PYTHON LIBRARIES NUMPY PANDAS MATPLOTLIB

- Reading Dataset
- Handling Missing Data
- Data filtering
- Data Conversion

Embedded and IoT Platform

Session 4

DEEP LEARNING TECHNIQUE

1. Regression techniques

Session 5

DEEP LEARNING TECHNIQUE

2. Linear Neural Networks
 - Hands on coding on linear Neural Network

Session 6

DEEP LEARNING TECHNIQUE

3. Multilayer perceptron (MLP)

- Concise implementation of MLP
- Model under fitting overfitting concepts
- Forward propagation backward propagation
- Stability and initialization
- Prediction
- Mini-project

Session 7

DEEP LEARNING TECHNIQUE

4. Convolutional Neural Network

- Layers and blocks
- CNN architectures
- Training and testing
- CNN features

Session 8

DEEP LEARNING TECHNIQUE

5. Implementation of CNN

Registration:

Follow <https://www.embiottechnologies.com/>

- The complete internship will be conducted online.
- Materials and Guidelines provided for each sessions
- Group registration will get a chance of final year project idea and support