

**CURRICULUM FOR VALUE ADDED COURSE ON "PYTHON WITH MACHINE LEARNING" IN Tech Fortune**

1. Basics OF PYTHON
2. Python Ecosystem
3. Methods for Machine Learning
4. Data Loading for ML Projects
5. Understanding Data with Statistics
6. Understanding Data with Visualization
7. Preparing Data
8. Data Feature Selection

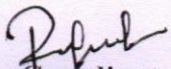
**Assessment:**

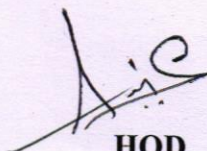
**Students should obtain:**

Min 80% of attendance

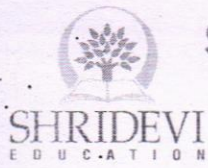
Min 80% Participation in practice session

Quiz

  
Coordinator

  
HOD  
HOD  
Dept of E&C  
SIET, Tumkur-6

  
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ESTD: 2002



(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

## Curriculum for VALUE ADDED COURSE ON "MACHINE LEARNING WITH PYTHON"

### 1 - Introduction to Machine Learning

Applications of Machine Learning  
Supervised vs Unsupervised Learning  
Python libraries suitable for Machine Learning

### 2 - Regression

Linear Regression  
Non-linear Regression  
Model evaluation methods

### 3 - Classification

K-Nearest Neighbour  
Decision Trees  
Logistic Regression  
Support Vector Machines  
Model Evaluation

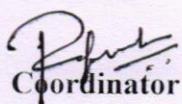
### 4 - Unsupervised Learning

K-Means Clustering  
Hierarchical Clustering  
Density-Based Clustering

### Assessment:

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