

PYTHON WITH MACHINE LEARNING SYLLABUS

Hi Folks,

Oranium Tech introducing some amazing content on Python with Machine Learning. Are you seeking to learn the Machine Learning Course? Your wait is over. Enroll at Oranium Tech for Machine Learning Course in Chennai. Flexible Timings! Most Affordable Rate with 100% Placement Support! Join Machine Learning Training in Chennai at Oranium Tech and gain knowledge in Machine Learning techniques along with Certification.

Python includes a modular machine learning library known as PyBrain, which provides easy-to-use algorithms for use in machine learning tasks. The best and most reliable coding solutions require a proper structure and tested environment, which is available in the Python frameworks and libraries.

1) Introduction

- What is ML?
- Visualization
- Data, Problems, and tools
- Matlab
- Linear Classification
- Perceptron update rule
- Perceptron convergence
- Generalization
- Maximum margin classification
- Classification errors
- Regularization
- Logistic regression
- Linear regression, estimator bias, and variance, active learning
- Kernel regression
- Support vector machine (SVM) and kernels
- Kernel optimization
- Model selection
- Model selection criteria
- Description length, feature selection
- Combining classifiers, boosting
- Boosting, margin, and complexity
- Margin and generalization, mixture models
- Mixtures and the expectation-maximization (EM) algorithm

2)EM, regularization, clustering

- Clustering
- Spectral clustering, Markov models
- Hidden Markov models (HMMs)
- Bayesian networks
- Learning Bayesian networks
- Probabilistic inference
- Guest lecture on collaborative filtering
- Current problems in machine learning, wrap up

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