## ZENUS INFOTECH INDIA PVT. LTD. CURRICULUM OF MACHINE LEARNING

Course Duration: 6/8 Weeks\*

Revisiting Python Visualisation

Python Libraries for ML Scikit-learn Library for ML

What is ML? Why ML? Code Exercises

Introduction to Supervised ML Supervised learning - Regression

Introduction to Unsupervised ML Different types of Regression-Linear and

Mathematical Background for ML- Matrix Logistic

ops Probability Theory (Bayes' Theorem)

Decision tree Algorithms

Statistical knowledge for ML- Mean, Real-world code exercises

Median, Mode, Z-scores, Supervised Learning- Classification

bias -variance dichotomy Naive- Bayes' Classification

Tools required for development - KNN Classification

Anaconda, Jupyter NB Real-world code exercises

ML libraries Explained: Scipy, Numpy, Clustering Introduction

Matplotlib k-means clustering

ML Glossary- Variable types, k-fold CV, Code Exercises

AUC, Advanced topics-Curse of Dimensionality-

F1score, Overfitting/Underfitting, PCA algo

Generalization, SVM Classification Introduction

Data split & hyper parameter training Real-time mini project

Data wrangling using Pandas

Preprocessing data and feature

engineering

Exploratory Data analysis using

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