

CETPA INFOTECH PVT. LTD.

COURSE CONTENT OF MACHINE LEARNING

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| <ul style="list-style-type: none"> • Revisiting Python • Python Libraries for ML • What is ML? Why ML? • Introduction to Supervised ML • Introduction to Unsupervised ML • Mathematical Background for ML- Matrix ops Probability Theory (Bayes' Theorem) • Statistical knowledge for ML- Mean, Median, Mode , Z-scores, bias -variance dichotomy • Tools required for development - Anaconda, Jupyter NB • ML libraries Explained: Scipy, Numpy, Matplotlib • ML Glossary- Variable types, k-fold CV, AUC , • F1 score, Overfitting/Underfitting, Generalization, • Data split & hyper parameter training • Data wrangling using Pandas • Preprocessing data and feature engineering • | <ul style="list-style-type: none"> • Exploratory Data analysis using Visualisation • Scikit-learn Library for ML • Code Exercises • Supervised learning - Regression • Different types of Regression-Linear and Logistic • Decision tree Algorithms • Real-world code exercises • Supervised Learning- Classification • Naive- Bayes' Classification • KNN Classification • Real-world code exercises • • Clustering Introduction • k-means clustering • Code Exercises • Advanced topics-Curse of Dimensionality-PCA algo • SVM Classification Introduction • Real-time mini project |
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