

Machine Learning

1. Python

- Basic control flow
- Input/Output in Python Data structure and Sequence
- Function
- OOPs in Python
- RE in Python
- Numpy
- Pandas
- Visualization
- SciPy Scikit learn
- Basic Text mining Mini Project

2. Probability and Statistics

- Basic of Probability
- Probability Distributions CLT and confidence intervals
- Hypothesis Testing Measure of central tendency and deviation

3. Machine Learning

- Introduction to Machine Learning
- Decision Tree
- k nearest Neighbors (KNN)
- Naive Bayes
- SVMs
- Ensemble Learning
- Artificial Neural Network (ANN)

- Linear Regression
- Logistics Regression
- Feature Selection
- Sequence Labeling Clustering
- Dimensionally Reduction using PCA and LDA
- Architecting ML Solutions
- ML case Studies
- ML mini projects

4. Visualization

5. Data Collection

6. Deep Learning (CNN, RNN)

7. Web Mining (Introduction)

8. Text Mining and Analytics

- N-gram Models
- Named Entity Recognition
- Natural Language Processing
- Sentiment Analysis

9. Data Mining

- Frequent Pattern Mining and Association Rules
- Basic Concepts of Data Warehousing
- Outlier Detection