

UNIT 1

- 1) Draw and explain Machine Learning Architecture?
- 2) What is ML? Explain types of ML.
- 3) Draw and explain Machine Learning Lifecycle.
- 4) Data Utilization Tools.

UNIT 2

- 1) Explain Simple Linear Regression.
- 2) Explain Multivariate Linear Regression.
- 3) Explain Gradient Descent for multivariate linear regression.

UNIT 3

- 1) Explain Logistic Regression.
- 2) Explain Regularization. (Lasso and Ridge).
- 3) What is Over fitting and Under fitting?

UNIT 4

- 1) Difference between Decision Tree and SVM
- 2) What is Decision Tree? State the advantages and disadvantages.
- 3) Explain Random Forest Algorithm with example.
- 4) Explain SVM, its advantages and disadvantages.

UNIT 5

- 1) What is Clustering? Explain in detail.
- 2) Explain Apriori Algorithm.
- 3) Explain Elbow Method in K Means Clustering.
- 4) Explain working of Dendrogram in Hierarchical Clustering.
- 5) Explain Association Rule Mining with example.

UNIT 6

- 1) Explain Neural Network in detail.
- 2) Explain multiclass classification with neural network.
- 3) Explain learning in neural network - Back Propagation Algorithm.
- 4) Explain Popularity based Recommendation Engine.
- 5) Explain Collaborative filtering in recommendation system.