

## Machine Learning (unsupervised learning)

Topic
Clustering Techniques: Heirarchial clustering, K-Means clustering
Proximity Measures in Machine Learning, DBSCAN (Density Based Spatial Clustering of Applications with Noise)
Anomaly Detection, Dimensionality Reduction, Need for dimensionality reduction
Principal Component Analysis (PCA), Singular Value Decomposition(SVD), T-distributed Stochastic Neighbor Embedding (t-SNE)
Association Rule, FP growth
Apriori Algorithm in Python
Clustering Hands-on, Association Rule mining Hands-on
Dimensionality Reduction Hands--on, Anamoly Reduction Hands-on
Recommender Systems
Recommender Systems, Case Studies - 1