Pattern and Anomaly Detection

Date: 7th June to 11th June 2021

Speaker: Bipul, IBM India

Sr.No	Day and Date	LAB / Theory	Status
1	**Day 1** 07-June-2021	Morning Session	COMPLETED Describing Relevance of pattern and anomaly detection, Difference between Regression and Classification
		Afternoon Session	Linear Regression and Non-Linear Regression, Linear and Non-Linear Curve fitting for regression type of problem, Error correction methods, MSE and MAE
2	**Day 2** 08-June-2021	Morning Session	COMPLETED Logistic Regression and Sigmoid function for classification based problem
		Afternoon Session	TPR,FPR,TNR,FNR,Recall, Precision,Sensitivity,ROC-AUC curve analysis

3	**Day 3** 09-June-2021	Morning Session Afternoon Session	**Un-Supervised Learning, KMeans, Clustering & Elbow Rule** **Principal Component Analysis (PCA)**
4	**Day 4** 10-June-2021	Morning Session Afternoon Session	**Association Rule Mining and Recommendation System** **KNN algorithm and Naive Bayes algorithm for classification**
5	**Day 5** 11-June-2021	Morning Session Afternoon Session	**Decision Tree classification and Random Forest Classification** **Gini Index** **Neural network for Pattern and Anomaly Detection**