**Lab MSE Questions**

1. Demonstrate how you handle imbalanced data using Random sampling (both under sampling and oversampling) and SMOTE analysis
2. Using Principal component analysis perform the dimensionality reduction on the given dataset and analyse the performance
3. Check the importance of hyperparameter tuning using RandomSearchCV and GridSearchCV methods on any two algorithms and analyse the performance of the prediction with and without hyperparameter tuning
4. Demonstrate the use of pipelines using any two algorithms on the given dataset and calculate the accuracy metric
5. Implement the market basket analysis using apriori algorithm and obtain the rules
6. Implement loan state prediction system using support vector machine
7. Demonstrate ensemble techniques using Random Forest
8. Demonstrate ensemble technique using ADABOOST algorithm
9. Fetch the real-time top-rated movie reviews from tmdb site and demonstrate how to save the data as .csv format
10. Fake news prediction using naive bayes classification algorithm and logistic regression