Roll No: 24IM61R06 Name: Swastik Dubey **Date:** 29-01-2025 1. Laboratory project details (Problem Statement): Use the same dataset as in Assignment3 for training 1) a Random forest, and 2) an SVM. Test the model using the Cross Validation Error and ploy the ROC (Receiver Operating Characteristics) curve. 2. Language Chosen: Python 3. Framework and libraries used to implement: Scikit-learn, Numpy, Pandas, Matplotlib 4. Dataset used (link): https://www.kaggle.com/datasets/denkuznetz/traffic-accident-prediction 5. Codebase Developed (please share files using google drive or github): https://github.com/scorch056/ML-Lab/ML-Lab_3 6. Results obtained: a) The accuracy of Random Forest is 71.60% **b)** The accuracy of Support Vector Classifier is 70.37% 7. Conclusions and Lessons learnt: Both perform equally well