1.Implement Naïve Bayes method using scikit-learn library Use dataset available with name glass Use train\_test\_split to create training and testing part Evaluate the model on test part using score and classification\_report(y\_true, y\_pred)

A screenshot of a computer program

Description automatically generated

2.Implement linear SVM method using scikit-learn Use the same dataset above Use train\_test\_split to create training and testing part Evaluate the model on test part using score and classification\_report(y\_true, y\_pred)

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WHICH IS BETTER AND WHY?

Linear SVM got better accuracy because SVM is better than Naïve Bayes at classification and regression tasks

3. Implement Linear Regression using scikit-learn a) Import the given “Salary\_Data.csv” b) Split the data in train\_test partitions, such that 1/3 of the data is reserved as test subset. c) Train and predict the model. d) Calculate the mean\_squared error. e) Visualize both train and test data using scatter plot.

A screenshot of a computer

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A graph showing a number of blue and red dots

Description automatically generated

GitHub link: https://github.com/rishithalikki/rishitha\_assign1

Video link: https://drive.google.com/file/d/1rLsBU7MIheVW-HfKjWBaGDPt3DBwSySq/view?usp=sharing