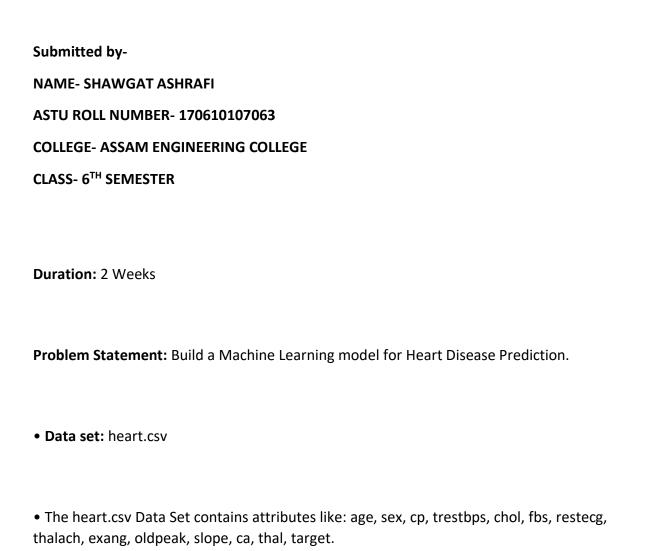
Heart Disease Prediction



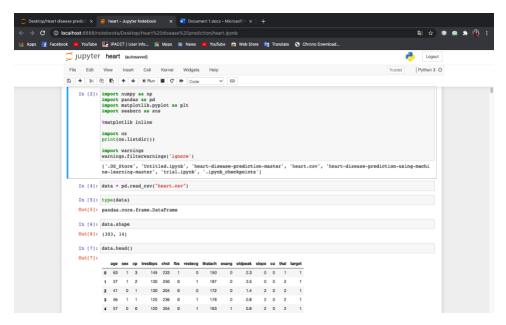
Classifier, Random Forest Classifier, Decision Tree Classifier and Support Vector Classifier. Compare all the applied algorithms and try to find out the algorithm or classifier which is best

fit to this data for prediction of disease (based on the evaluation of each model).

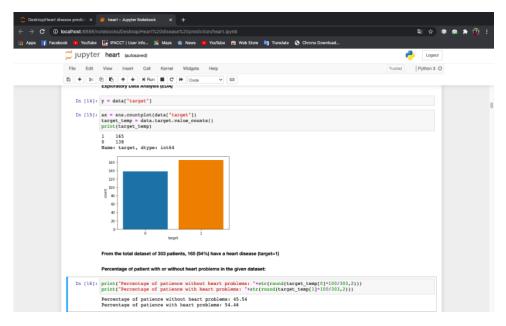
• Apply 3-4 algorithms or classifiers like K Nearest Neighbors

EXECUTION OF THE MODEL-

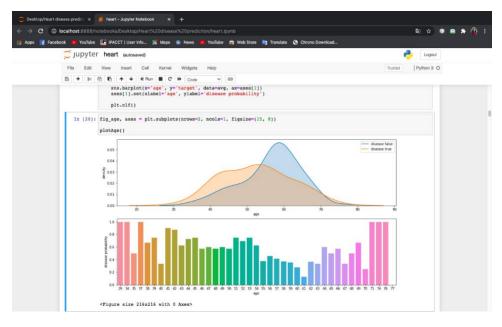
1. Importing the libraries:



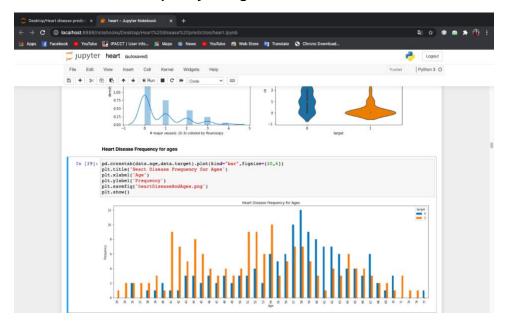
2. Exploratory Data Analysis (EDA):



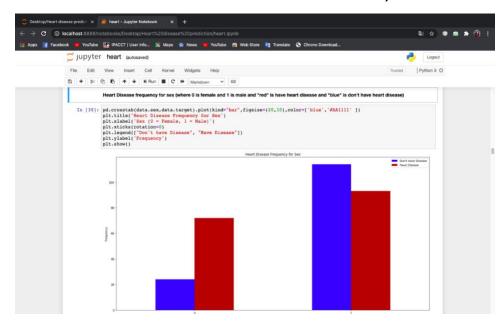
3. Density v/s age and disease probability v/s age:



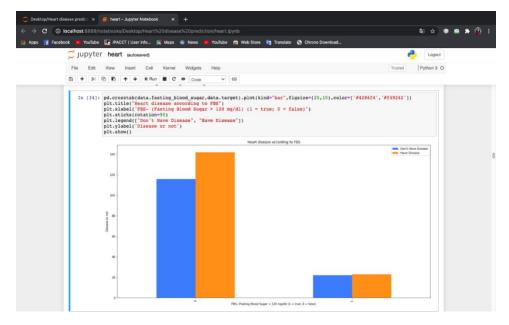
4. Heart Disease Frequency for ages:



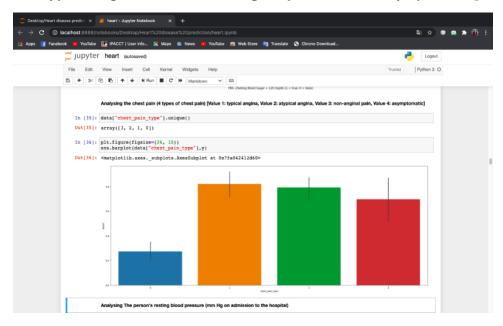
5. Heart Disease frequency for sex (where 0 is female and 1 is male and "red" is have heart disease and "blue" is don't have heart disease):



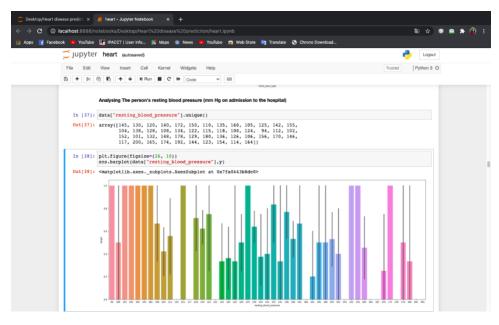
6. Heart disease according to Fasting Blood sugar:



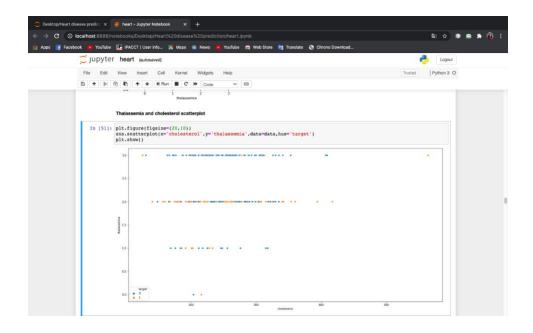
7. Analysing the chest pain (4 types of chest pain) [Value 1: typical angina, Value 2: atypical angina, Value 3: non-anginal pain, Value 4: asymptomatic]:



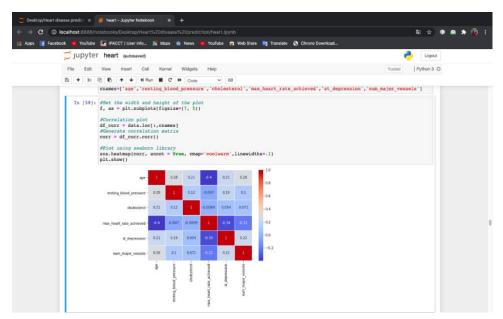
8. Analysing the person's resting blood pressure (mm Hg on admission to the hospital):



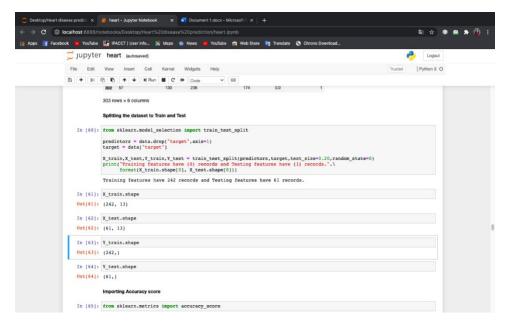
9. Thalassemia and cholesterol scatterplot:



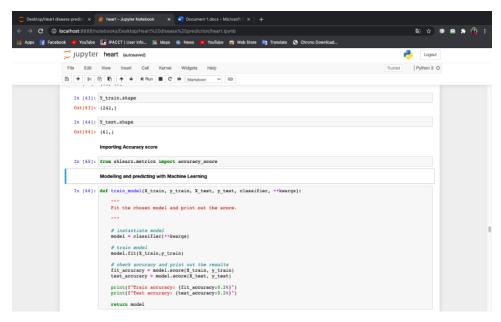
10. Correlation plot:



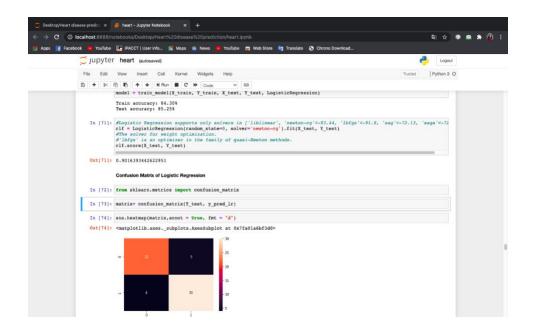
11. Splitting the dataset to Train and Test:



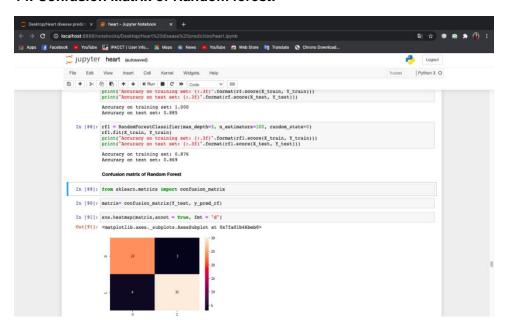
12. Modelling and predicting with Machine Learning:



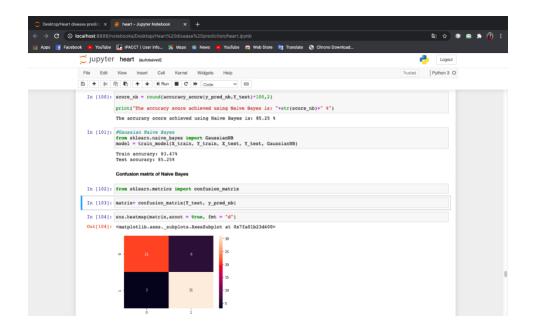
13. Confusion Matrix of Logistic Regression:



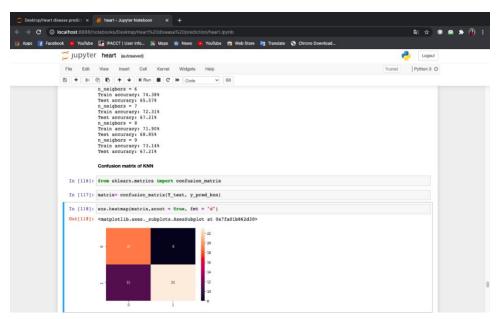
14. Confusion Matrix of Random forest:



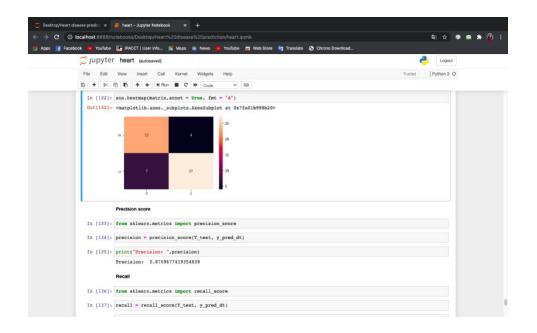
15. Confusion Matrix of Naive Bayes:



16. Confusion Matrix of K Nearest Neighbors:



17. Confusion Matrix of Decision Tree:



FINAL OUTPUT-

