Breast Cancer Prediction

By: Steve Kim

Purpose

- The goal of this project is to interpret the data provided from Kaggle
- Hone my skills on everything I have learned the past few months (Data cleaning, machine learning, streamlit, etc...)
- Creating a prediction model for car prices
- This model can be used for sellers or buyers in Australia for estimating the value of a car depending on different variables
- If selling, one can search for similar vehicles and list theirs for a close price
- If buying, can search for various kinds of different cars to see the prices or see the cars they can afford in their given budget

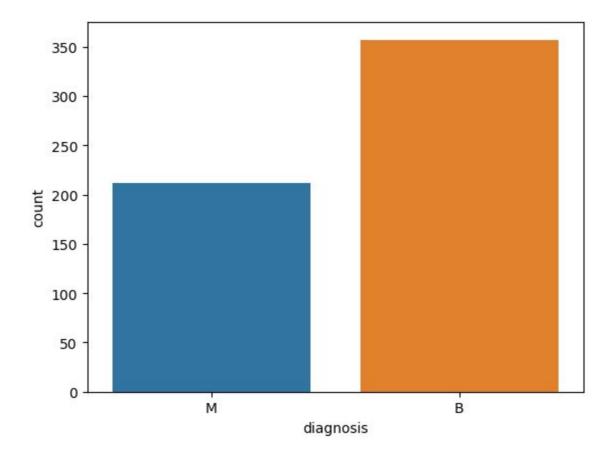
Data Overview

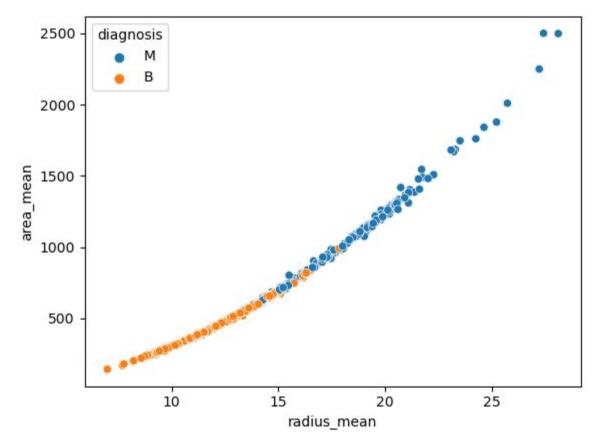
Data set

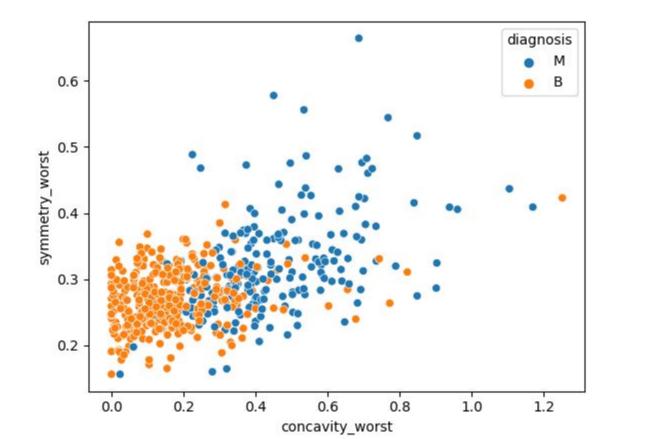
- Data set used was provided by Kaggle
- Contains data on tumor information last updated in 2022
- Rows: 16,735
- Columns: 19

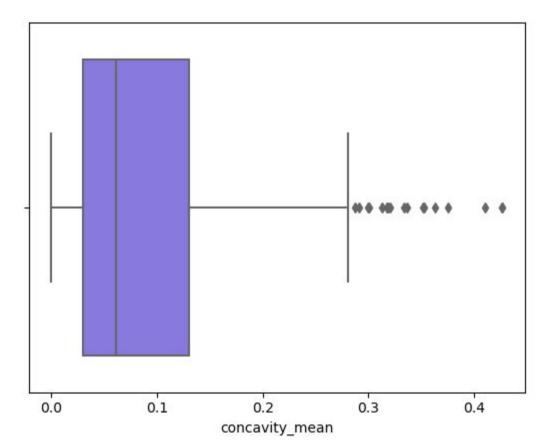
Key Features

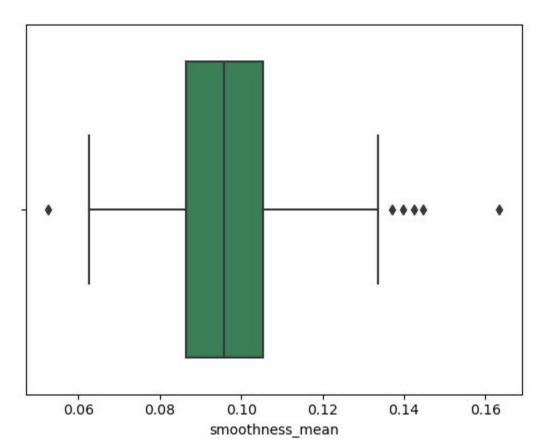
- Radius
- Texture
- Perimeter
- Area
- Smoothness
- Compactness
- Concavity
- Symmetry

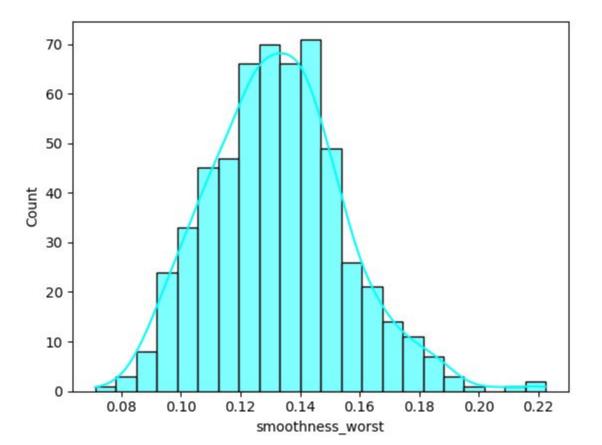


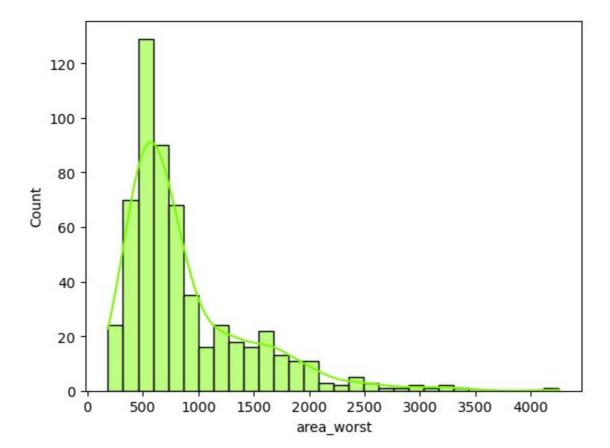




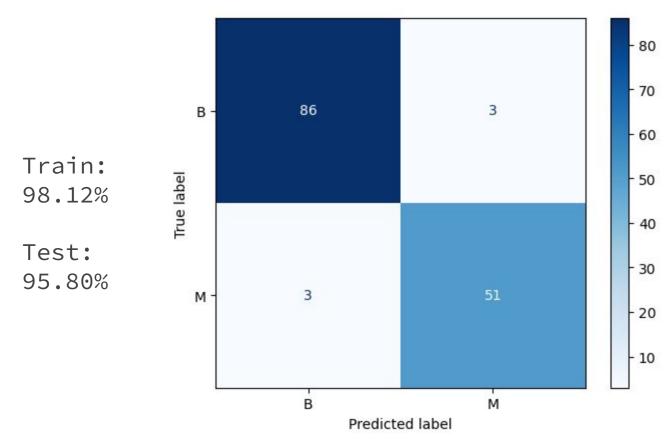




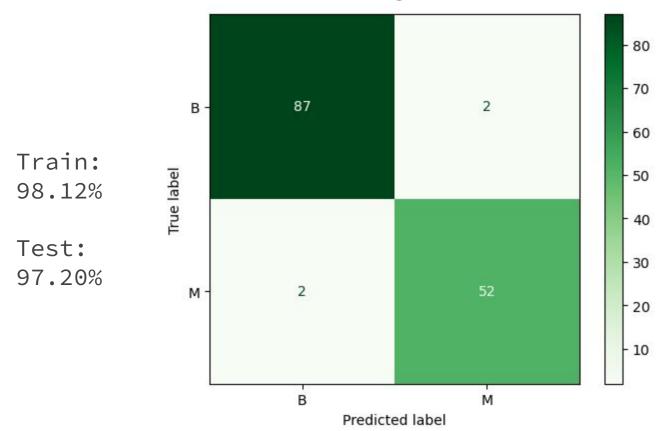




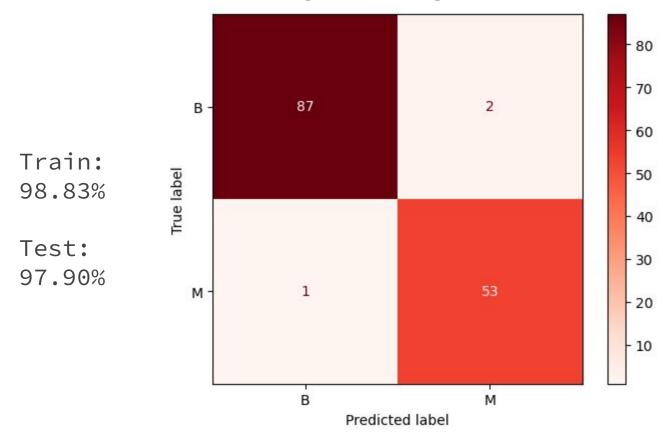
Standard Scaler



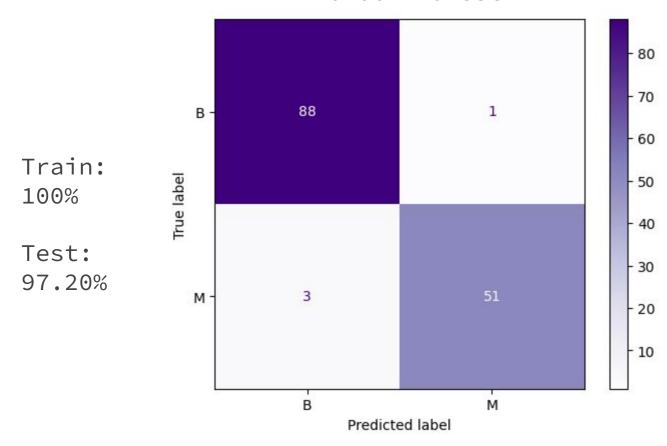
KNeighbors



Logistic Regression



Random Forest



Conclusion

- Overall the greater the size of the tumor the higher chance of the tumor being malignant
- There are many different variables that will affect one's diagnosis
- Self care, tests, doctor visits will help in finding and preventing anything. The earlier the better

Thank you!

Any Questions?