

Stroke Prediction

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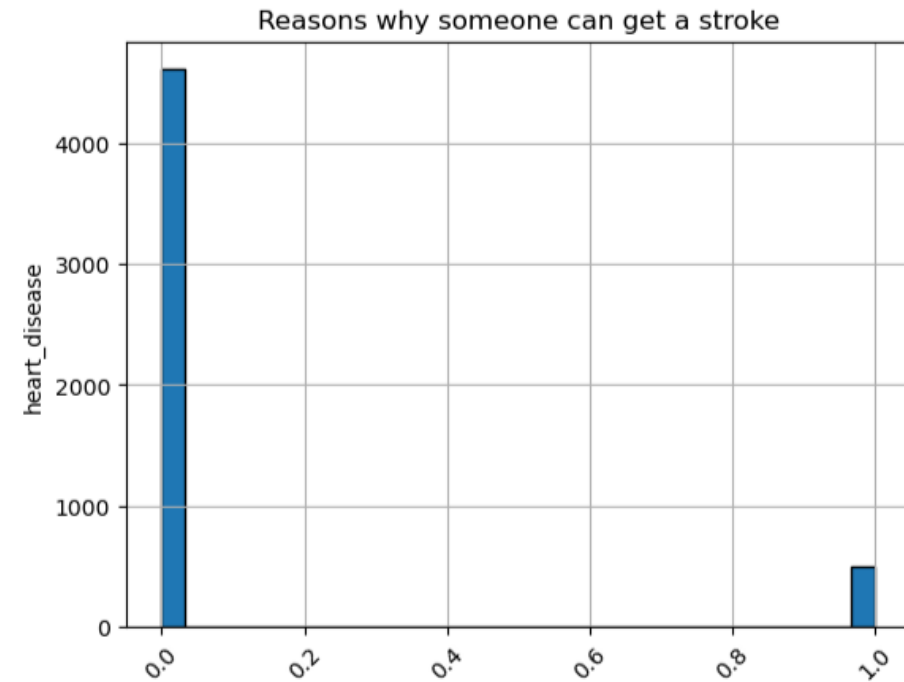
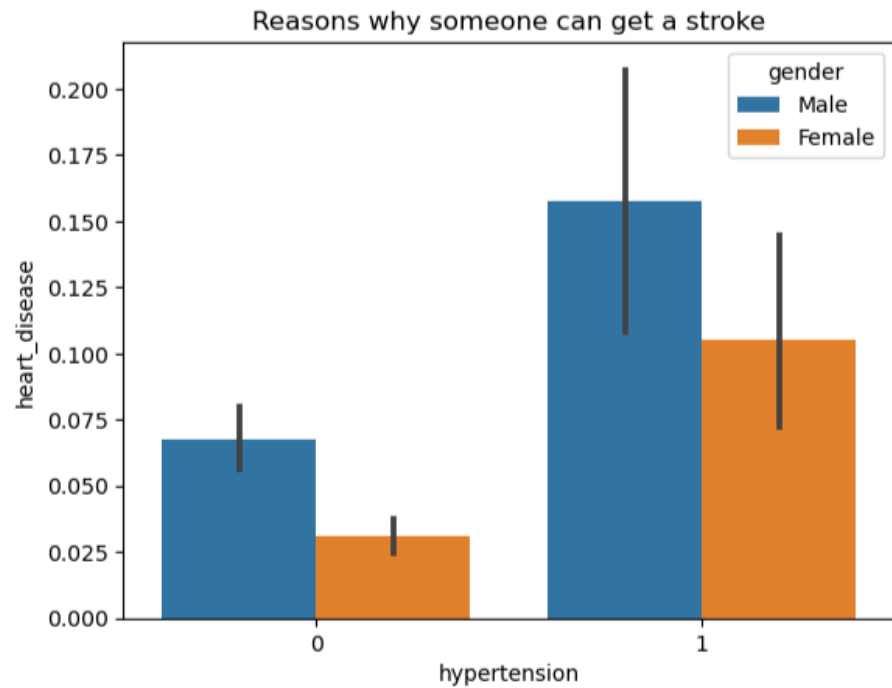
What am I talking about today

- I am helping to solve the problem of who is more likely to receive a stroke and how to prevent it.
- My data shows me all the pre-existing factors of people who have received a stroke and also who have not received a stroke.

A Brief Summary of my Data

- My data shows me all the pre-existing factors of people who have received a stroke and, also shows the factors on people who have not received a stroke.
- The major pre-existing factors for possibility of a stroke are heart disease and hypertension but not limited to BMI and Smoking Status.
- I will be focusing on heart disease and hypertension in this slide show.

Two Graphs that help show my prediction



Strengths of my Model

- This is a classification problem due to the fact that we are seeing who has gotten a stroke or not.
- Best Production Model would be to use would be the KNN Classifier due to the fact that their accuracy (of 0.95), which would lead to higher results in producing a drug that can help prevent a stroke.

Limitations of my model

- There are not a huge risk of falsely telling a patient that they will not have a stroke if they take this medicine due to the fact that the model is showing a 0.95 accuracy rate.

My recommendation

- For the average person, I would recommend exercising more and a change of diet. With just those two factors, hypertension and heart disease will go down.
- For the drug companies, I would recommend creating a drug that will target hyper-tension and heart disease in patients. Due to creating this type of drug, there will be less of a chance of people dying of a stroke.