



Stroke Prediction Model

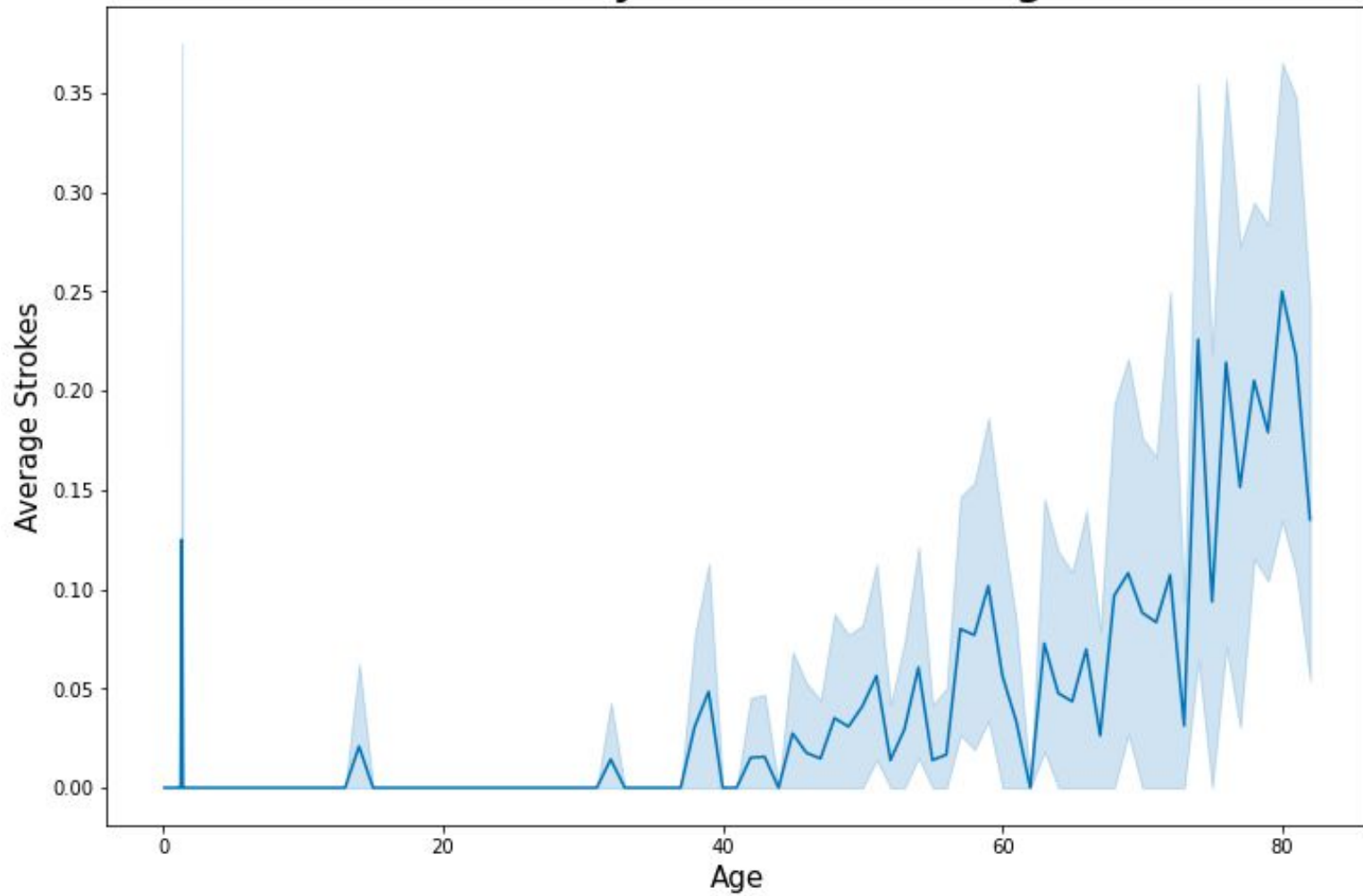
Alex Re



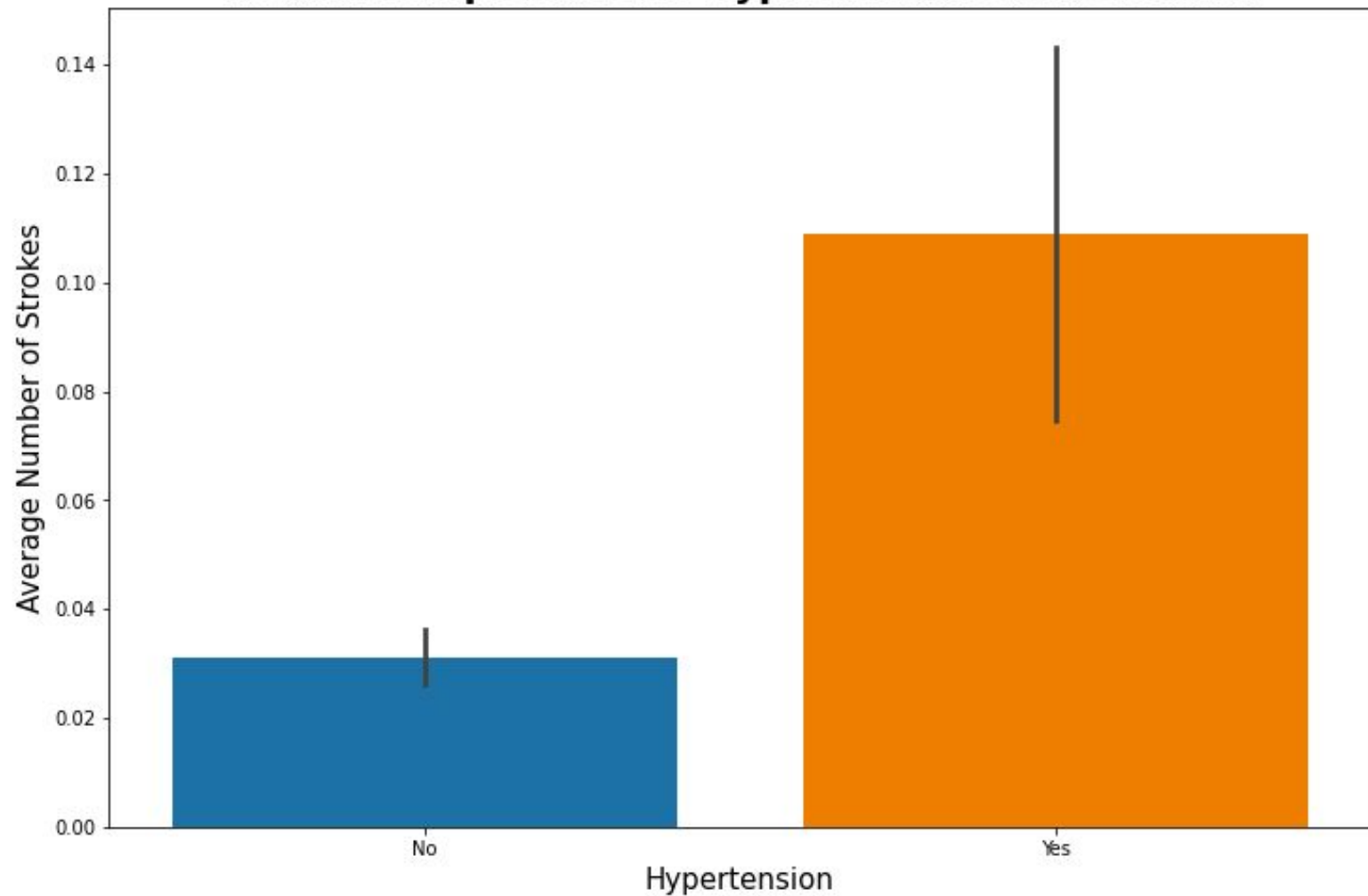
About the Dataset

- Stakeholders: Doctors of patients at risk of having a stroke
- Purpose: Using characteristics of patients to predict if they will have a stroke
- Important Features:
 - Age
 - Smoker or Non-Smoker
 - Hypertension
 - Blood-Glucose Levels
 - Marital Status
 - Place of Residence
 - Area of Work

Probability of Strokes with Age

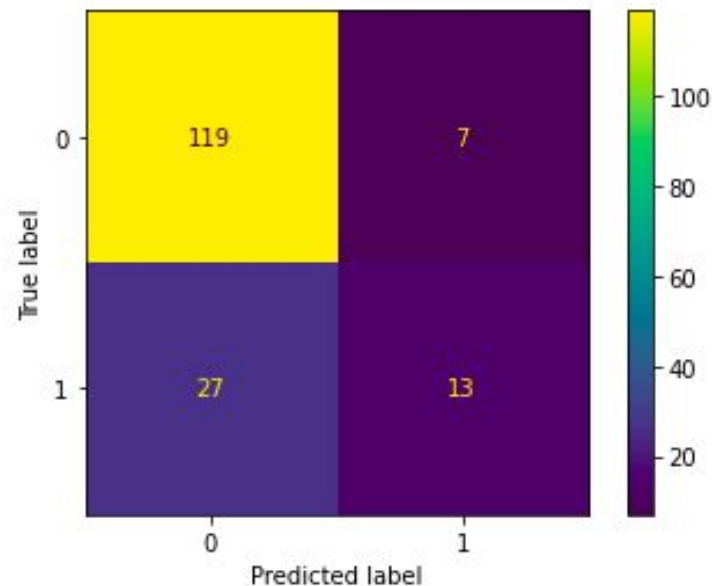


Relationship Between Hypertension and Strokes



How did the model do?

- Did well with predicting true negatives
- Could only predict 32.5% of true positives correctly
 - This could be an issue when it comes to predicting strokes
 - The model will most likely predict that you won't have a stroke, even if you will
- Unbalanced dataset
 - There were many more people who didn't have strokes than those who did





Recommendations

- I would not recommend the use of this model without further improvement
- It will not accurately predict if a patient is likely to have a stroke, which could be deadly
- Moving forward, I will use techniques to balance the data so that the prediction is more accurate
- Doctors should closely monitor patients who have hypertension and/or are over 60 years of age



Any Questions?



Libraries That Were Used

- Scikit Learn
- Matplotlib
- Seaborn
- Pandas