

DATA ANALYSIS PROJECT

HEALTH CARE STUDY

TEAM 2



BACKGROUND

This analysis was done using the “Healthcare Stroke Dataset” created using data gathered from research conducted on male, female and other (who do not identify as male or female) subjects.

Subject’s ages ranged from under 10 to 82.

Source: [kaggle.com](https://www.kaggle.com/datasets/ahmedmohamednassef/healthcare-stroke-dataset)



PROBLEM STATEMENT ➡

In 2005, the overall mortality rate from stroke was approximately 44.7 per 100,000 for Caucasian males, 70.5 per 100,000 for black males, 44.0 per 100,000 for Caucasian females, and 60.7 per 100,000 for black females.

The annual rate of strokes is expected to increase to 1.2 million cases by the year 2025, a troubling trend that underlines the urgency of adequate stroke treatment.

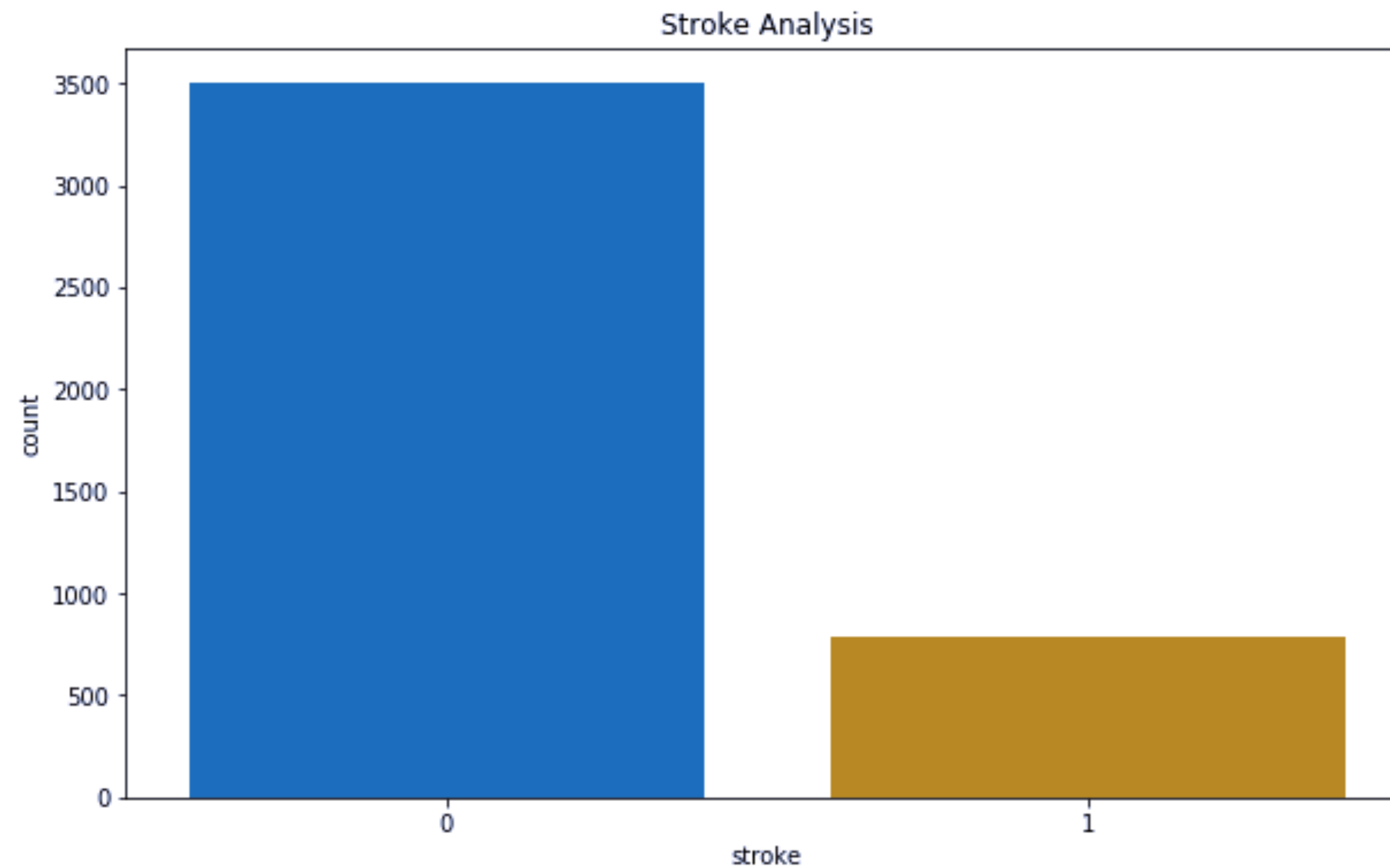
The goal of this analysis is to study predisposing or lifestyle factors leading to the diagnosis or occurrence of stroke in subjects surveyed in the Healthcare Stroke Dataset”.

Source: NCBI

OUR ANALYSIS



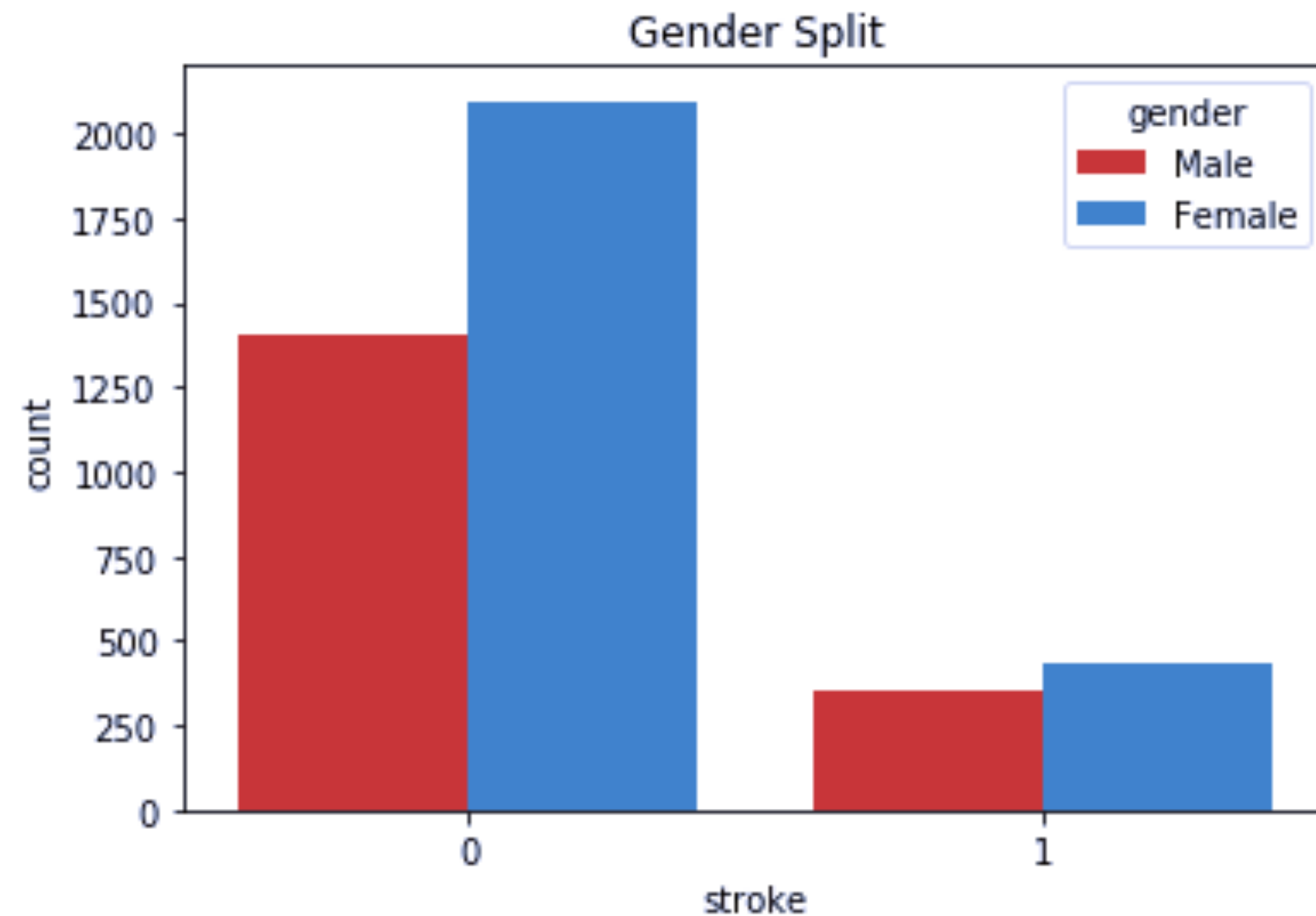
I. Plot showing the count of subjects living with and without stroke.



INSIGHT

Based on our analysis, subjects living with stroke make up less than 20% of the total dataset.

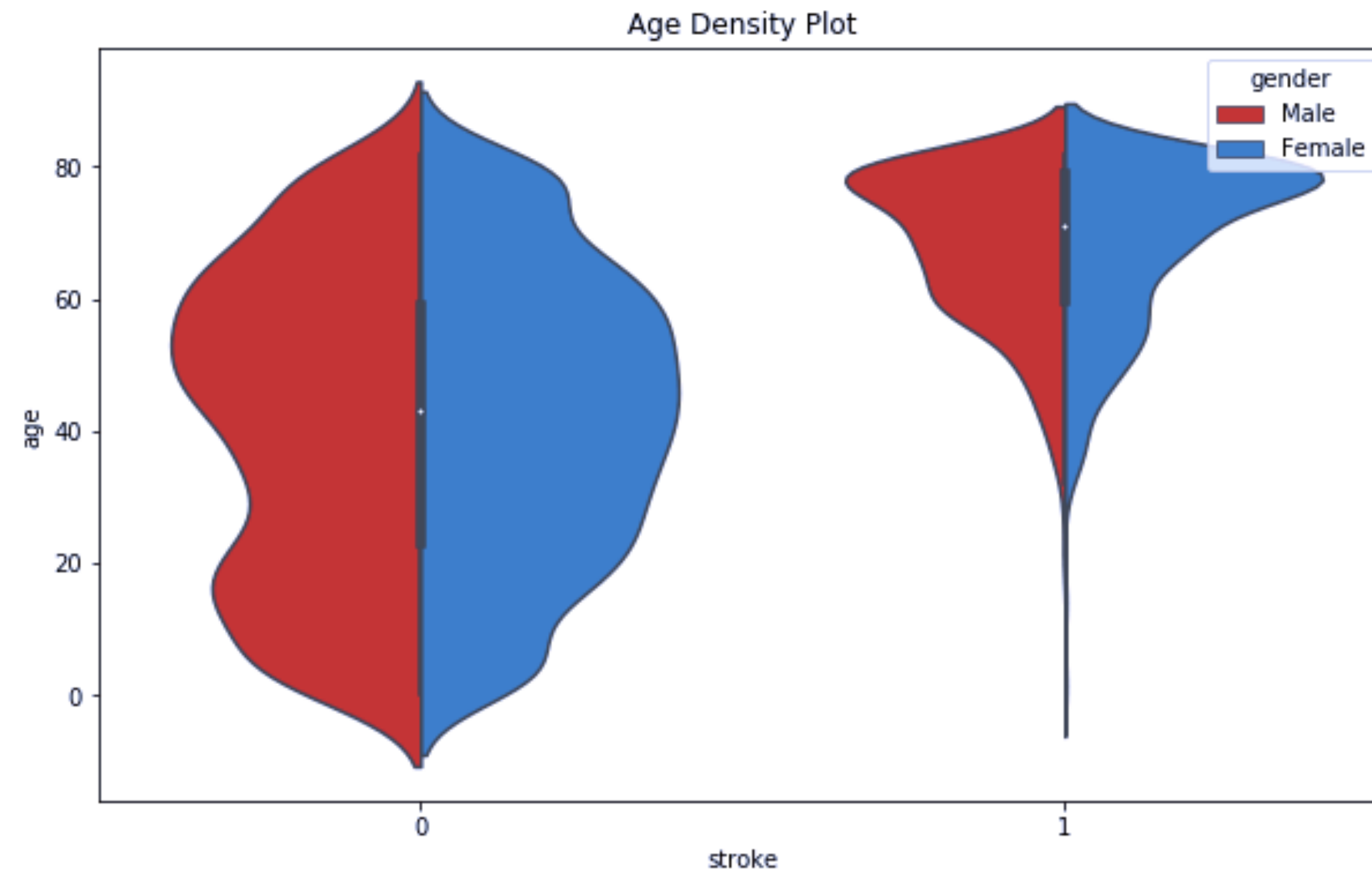
II. Plot showing gender split of subjects living with and without stroke



INSIGHT

Despite the huge difference in subject gender size (female subjects sampled more than male), the women in this study reportedly suffer more from stroke than the men.

III. Plot showing age density

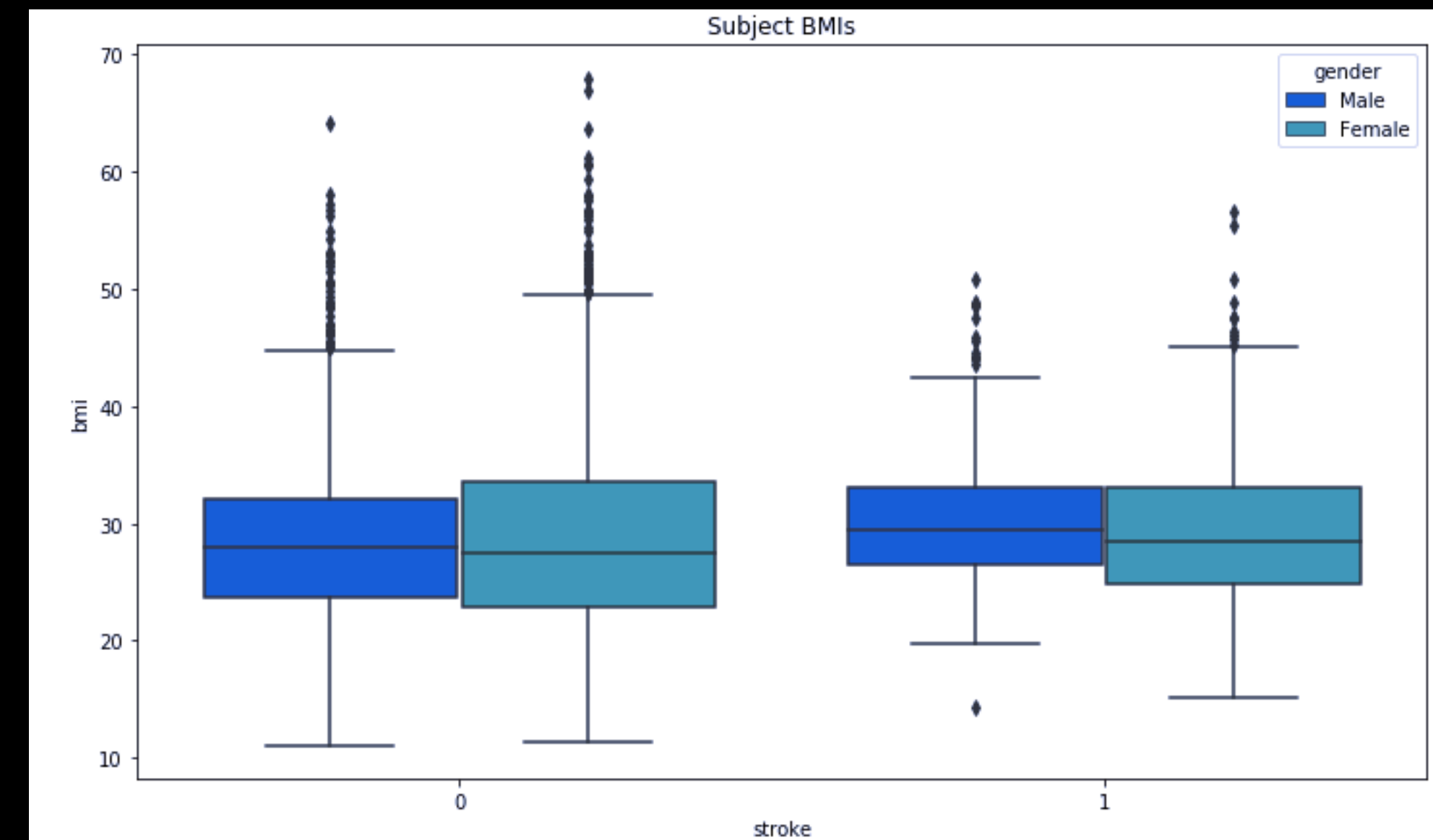
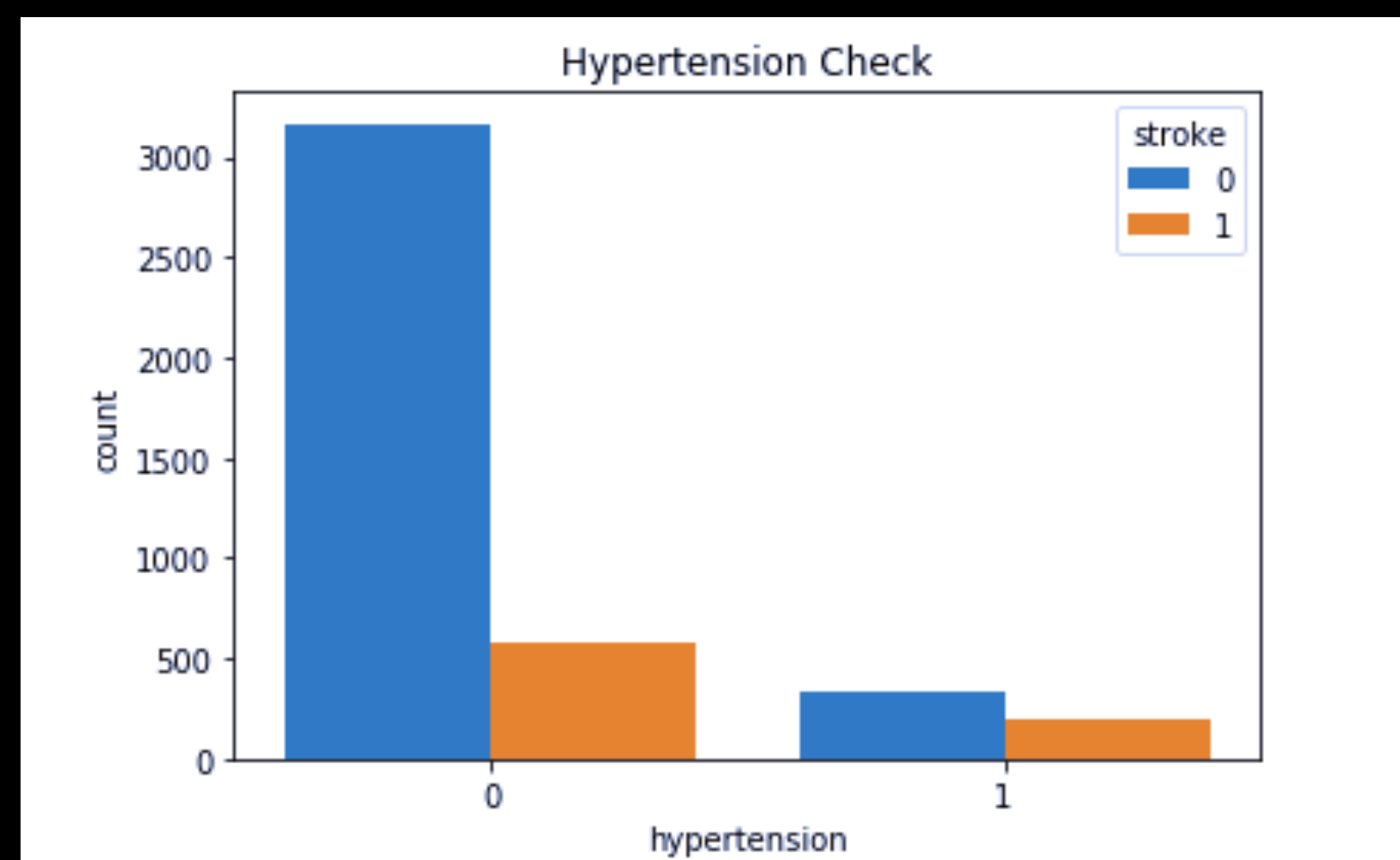
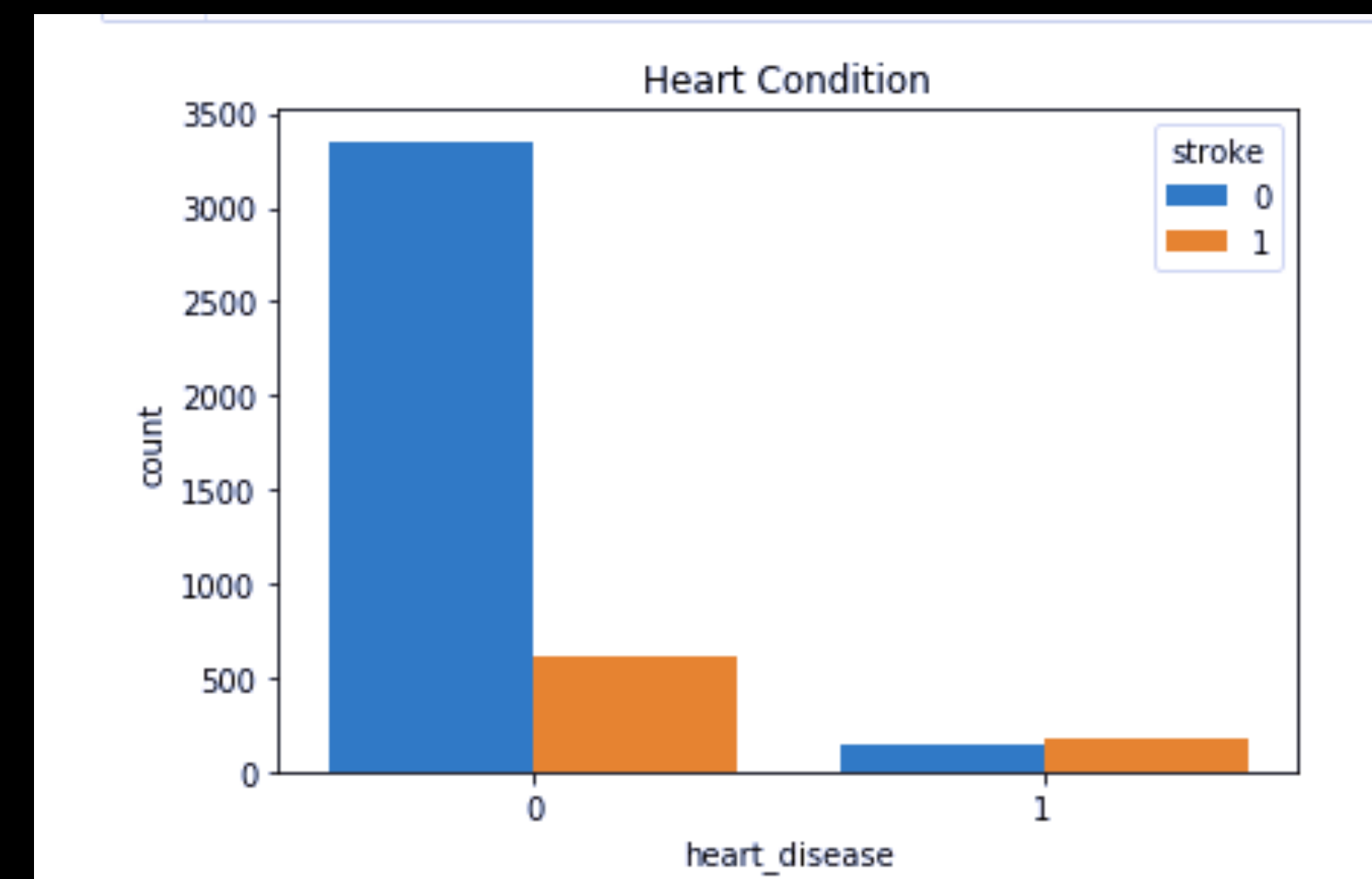
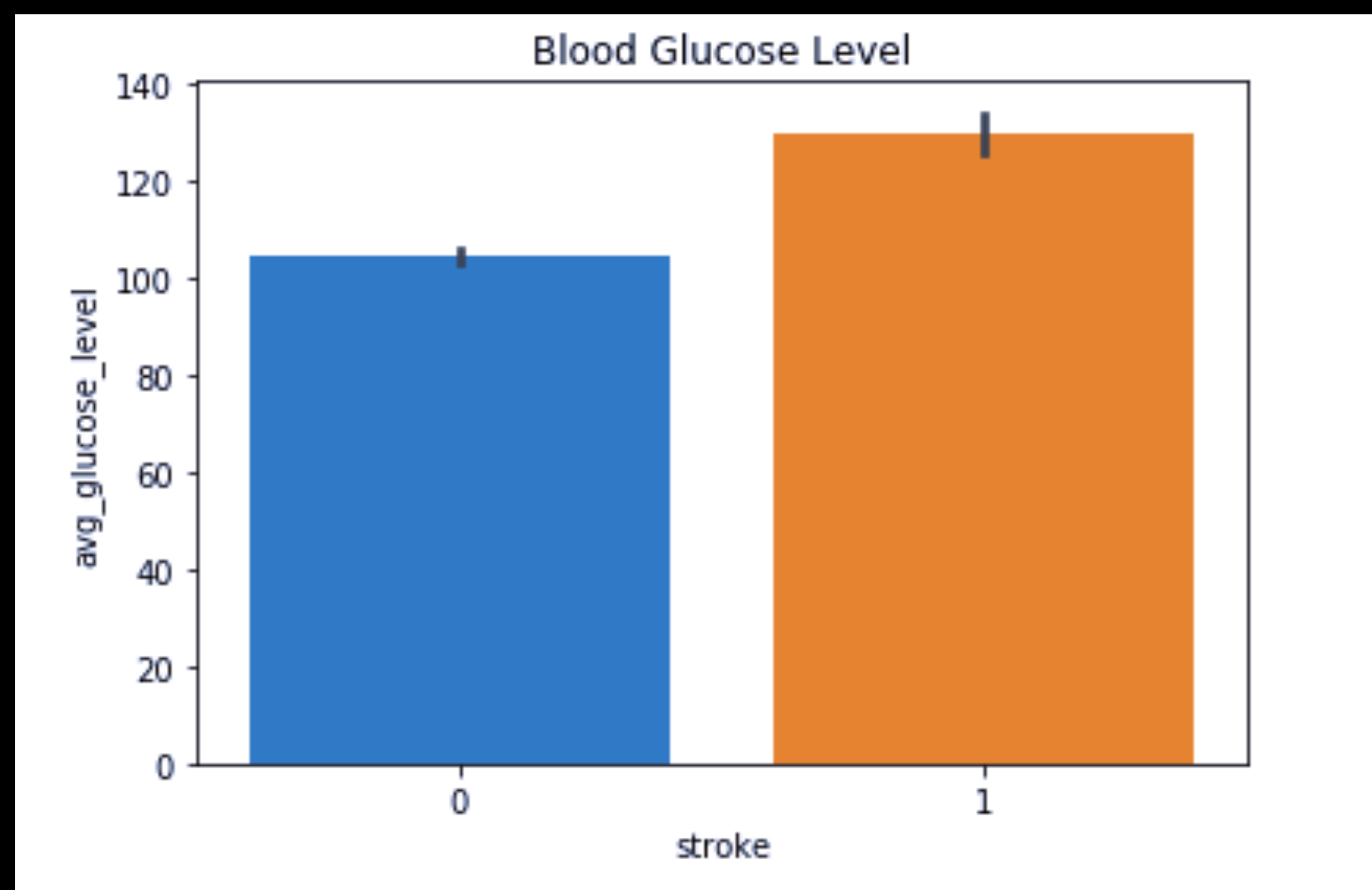


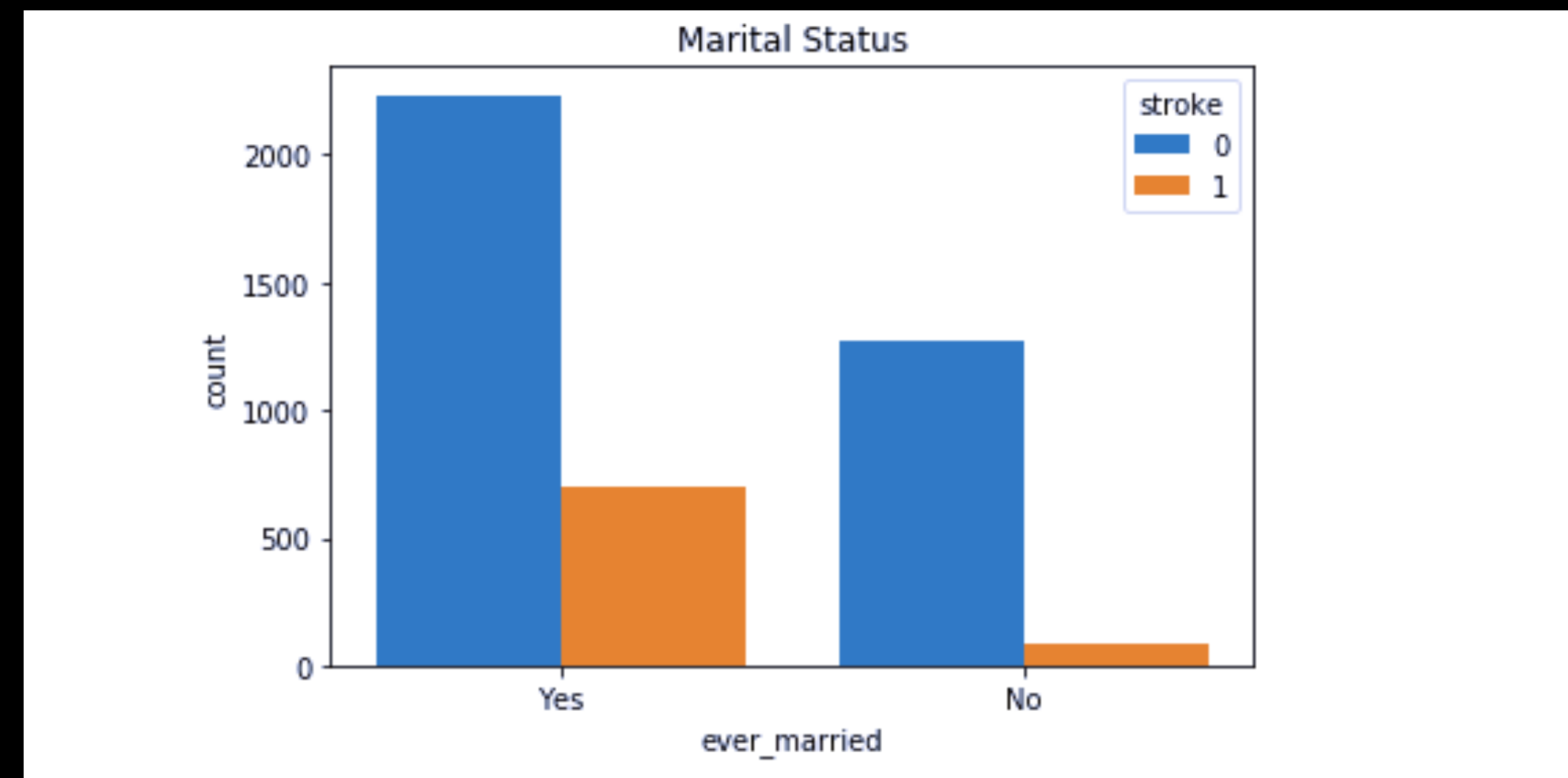
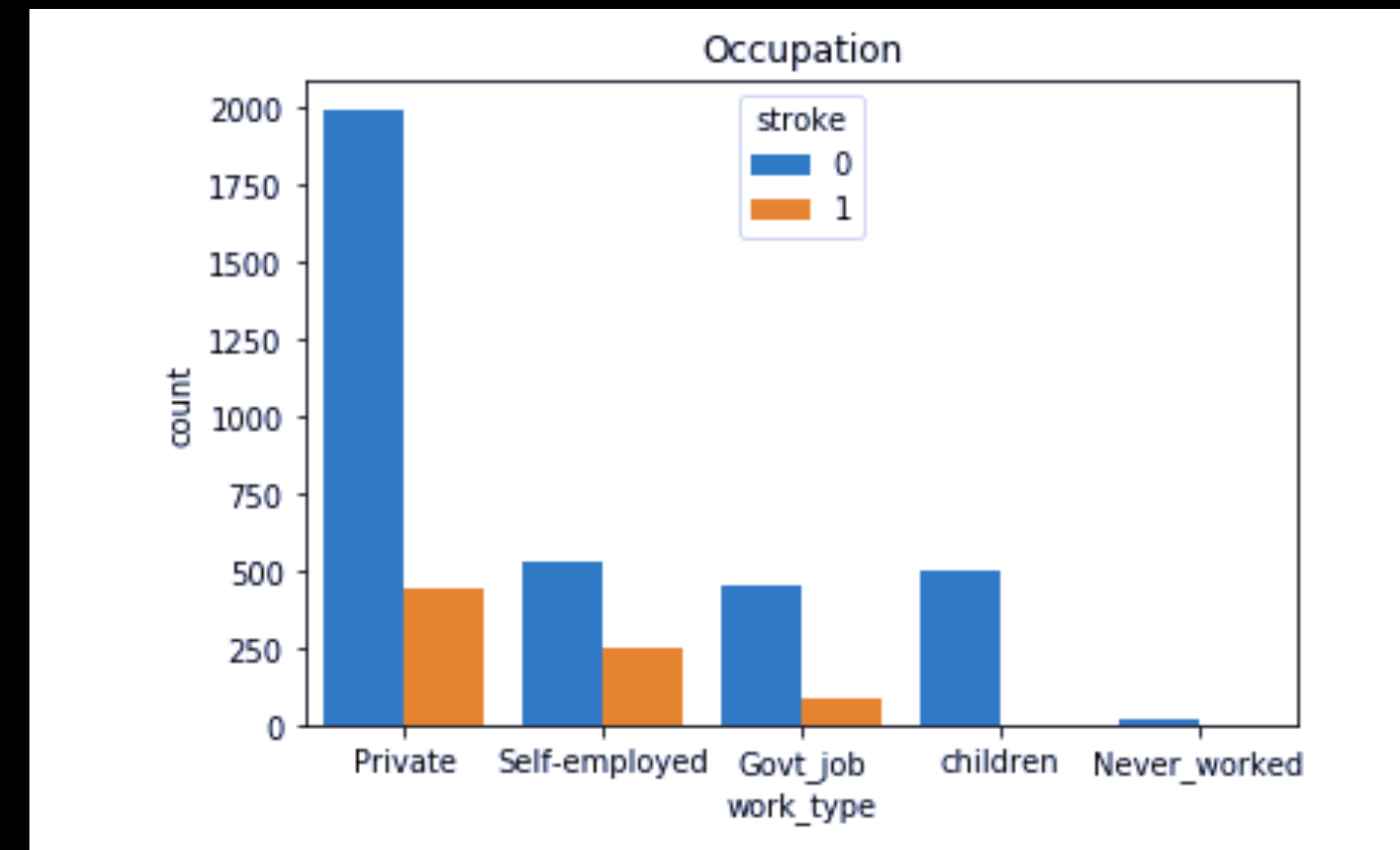
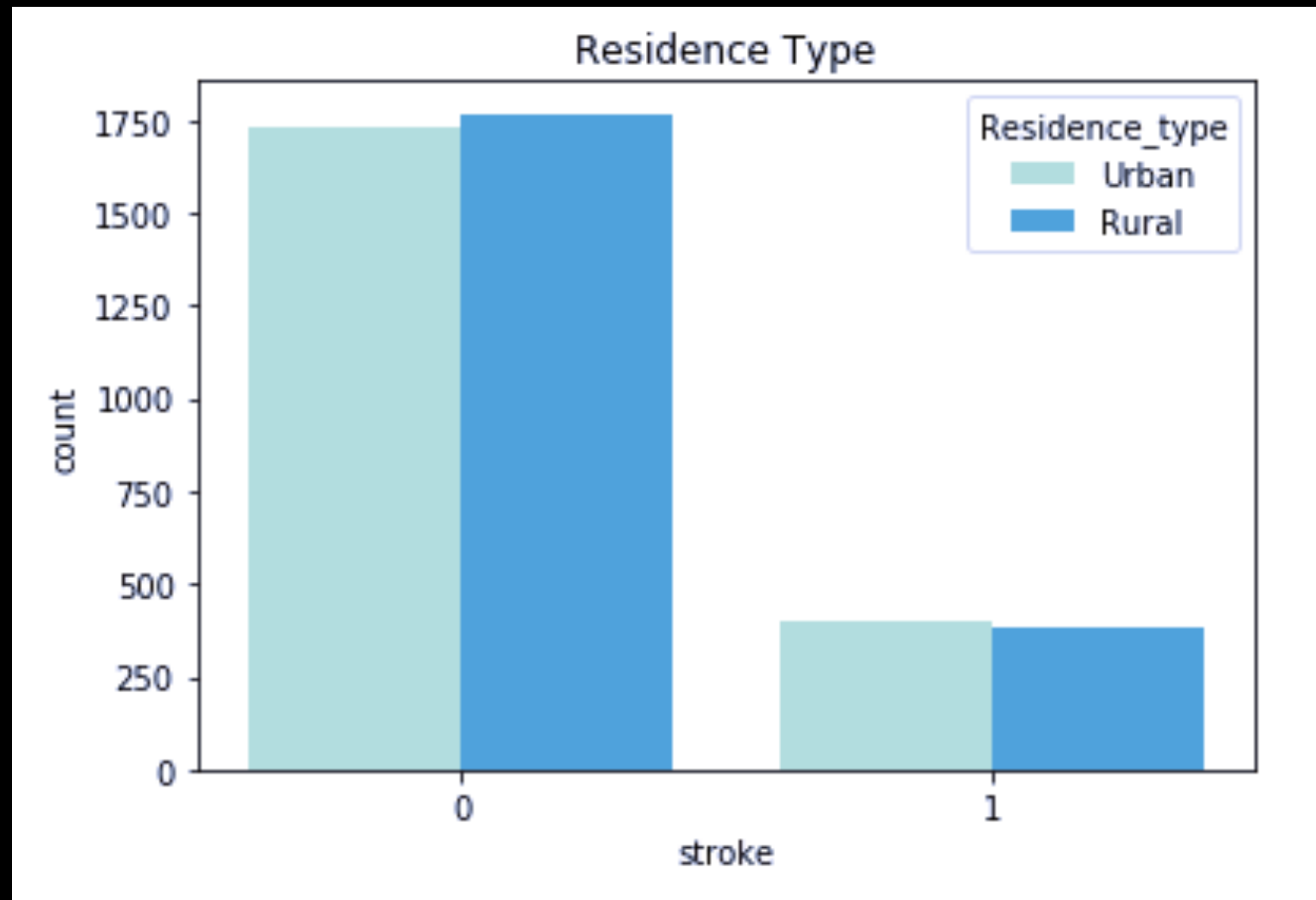
INSIGHT

The plot shows subjects from this study based on their ages. It was discovered that subjects 50 years and older suffered more from this condition than others.

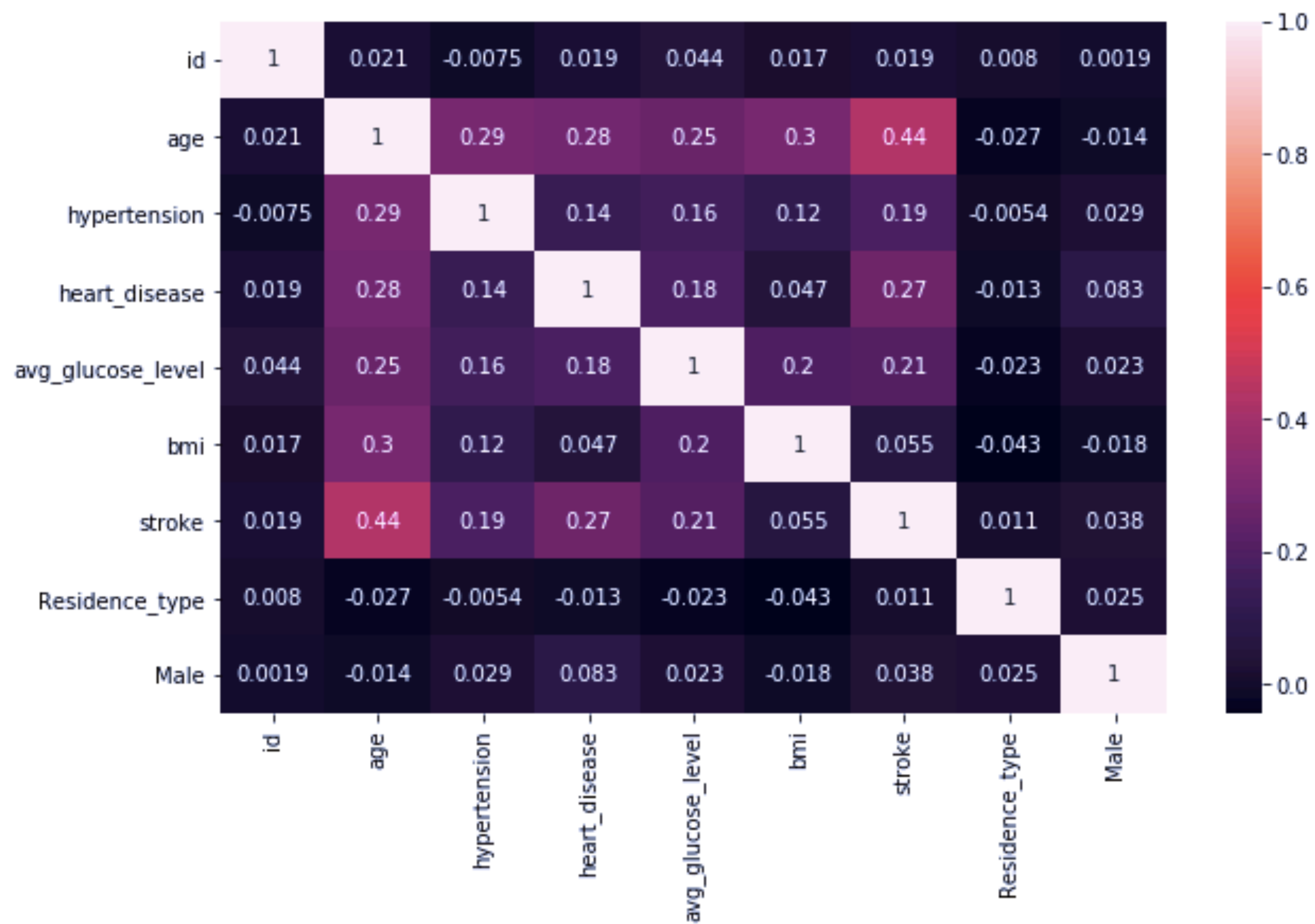


ANALYSING FACTORS





TEAM 2



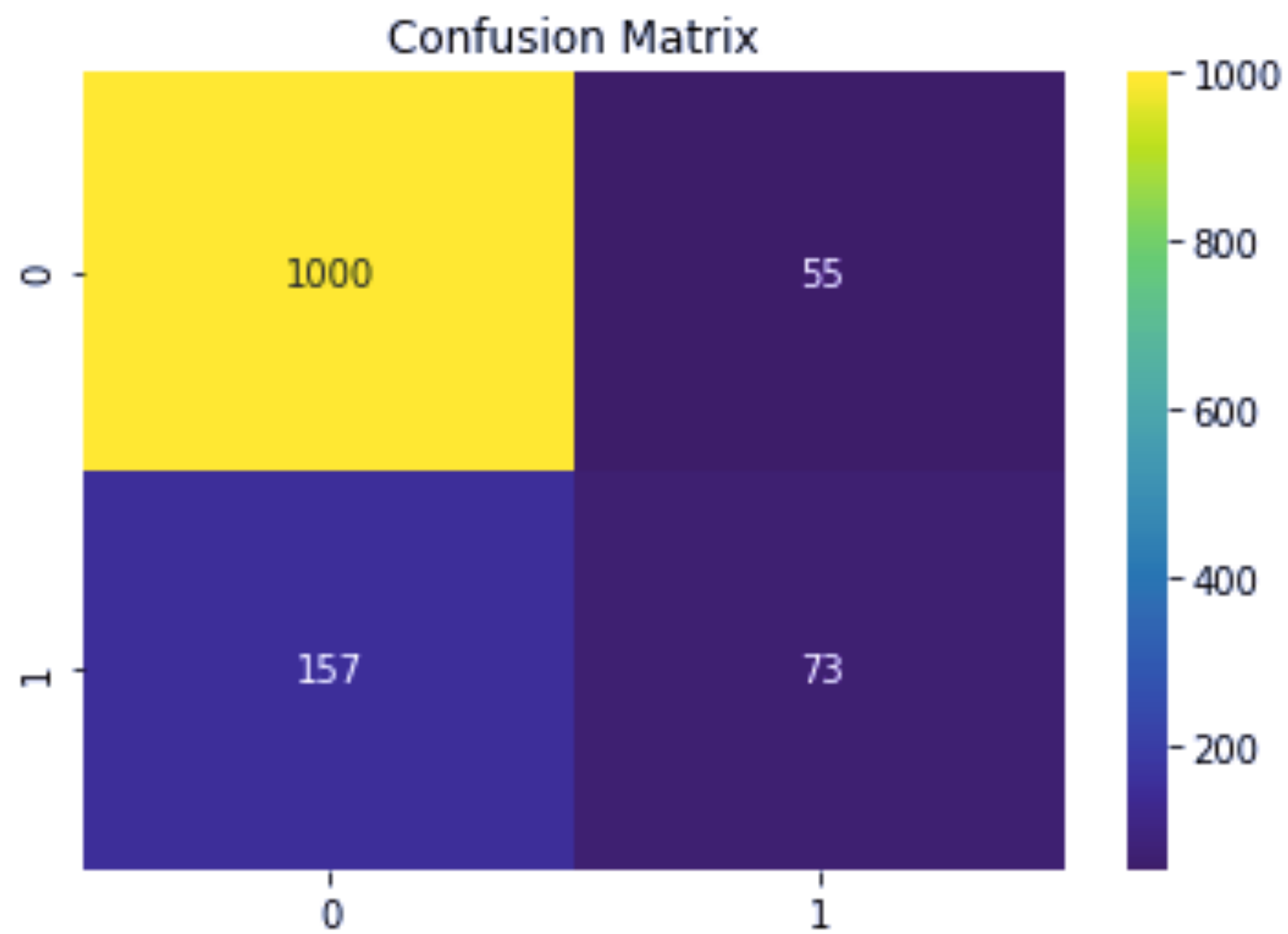


CONCLUSION ➡

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The goal of this analysis is to study predisposing or lifestyle factors leading to the diagnosis or occurrence of stroke in subjects surveyed in the Healthcare Stroke Dataset”.



ML Accuracy = 84%

REFERENCES

Healthcare Stroke Dataset (<https://www.kaggle.com/asaumya/healthcare-dataset-stroke-data>)

Neurothrombectomy Devices for Treatment of Acute Ischemic Stroke (<https://www.ncbi.nlm.nih.gov/books/NBK52904/>)

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THANK YOU

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