Predictive Risks of Stroke



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According to the World Health Organization stroke is the 2nd leading cause of death globally, responsible for approximately 11% of total deaths



Risk Factors Considered:

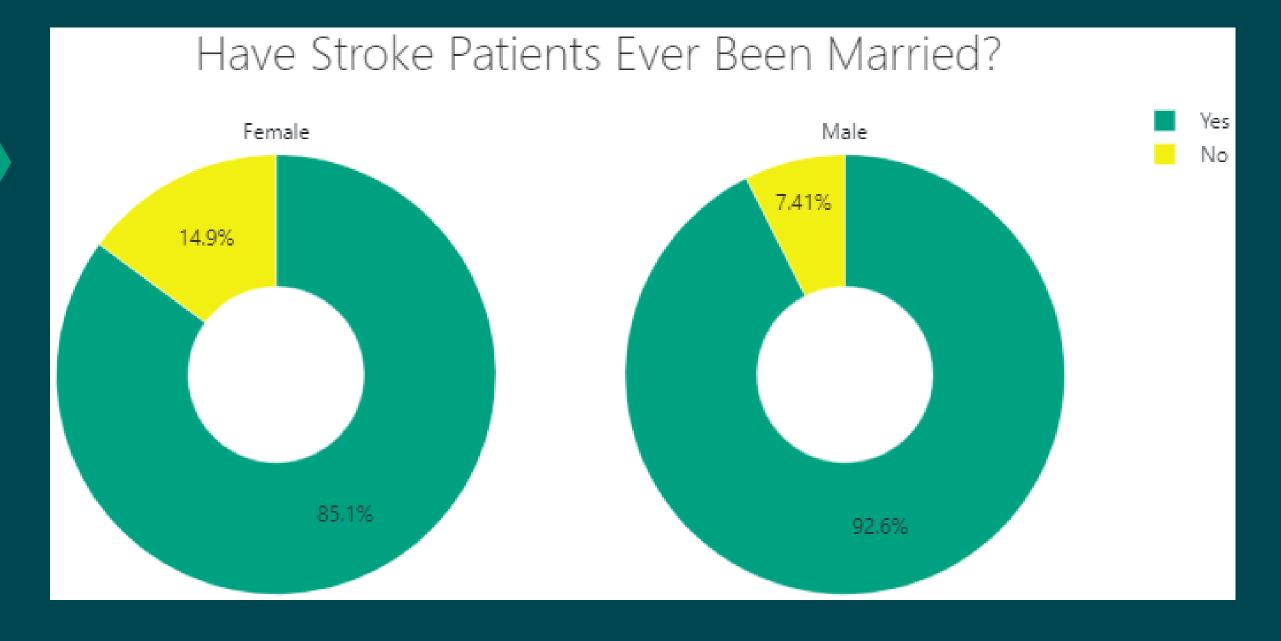
- Age
- Hypertension
- Average Glucose Level
- BMI
- Stroke
- Gender
- Maritial Status
- Employment Type
- Residence Type
- Heart Disease

Previewing the Data

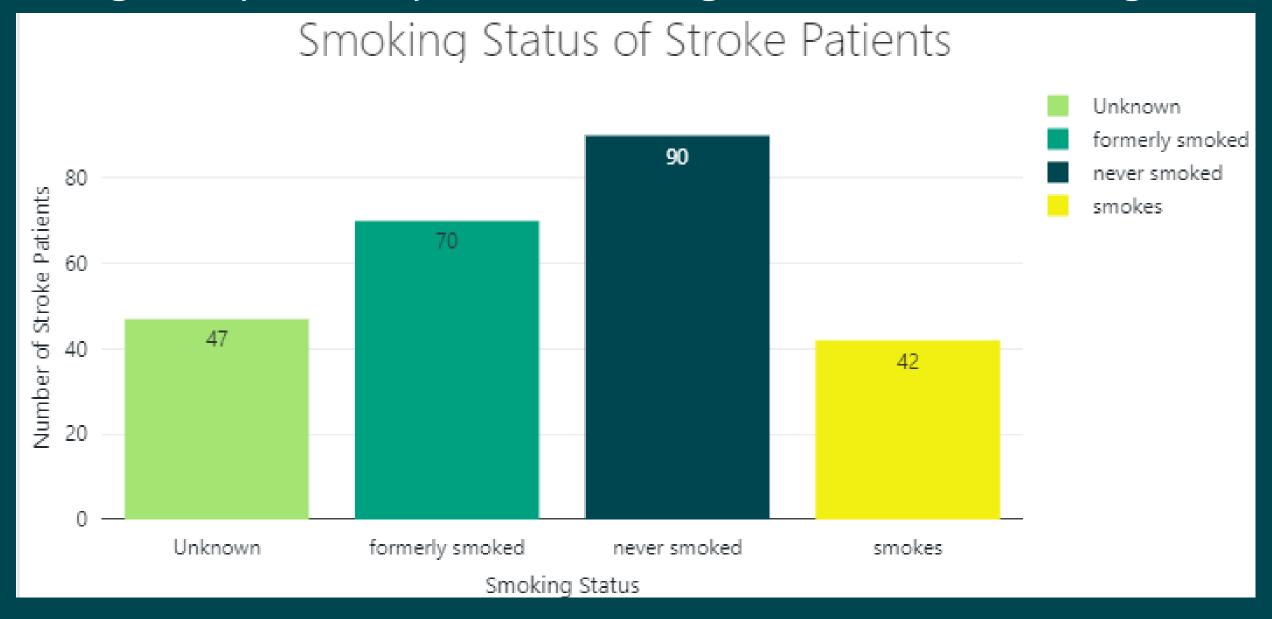
Using Spark SQL, Python, and DataBricks notebook, we conducted a comprehensive review and analysis of stroke prediction data. Our objective was to gain deeper insights into the patients within the dataset, as well as to explore the potential impact of clinical features on our predictive models.

Spark SQL Python DataBricks

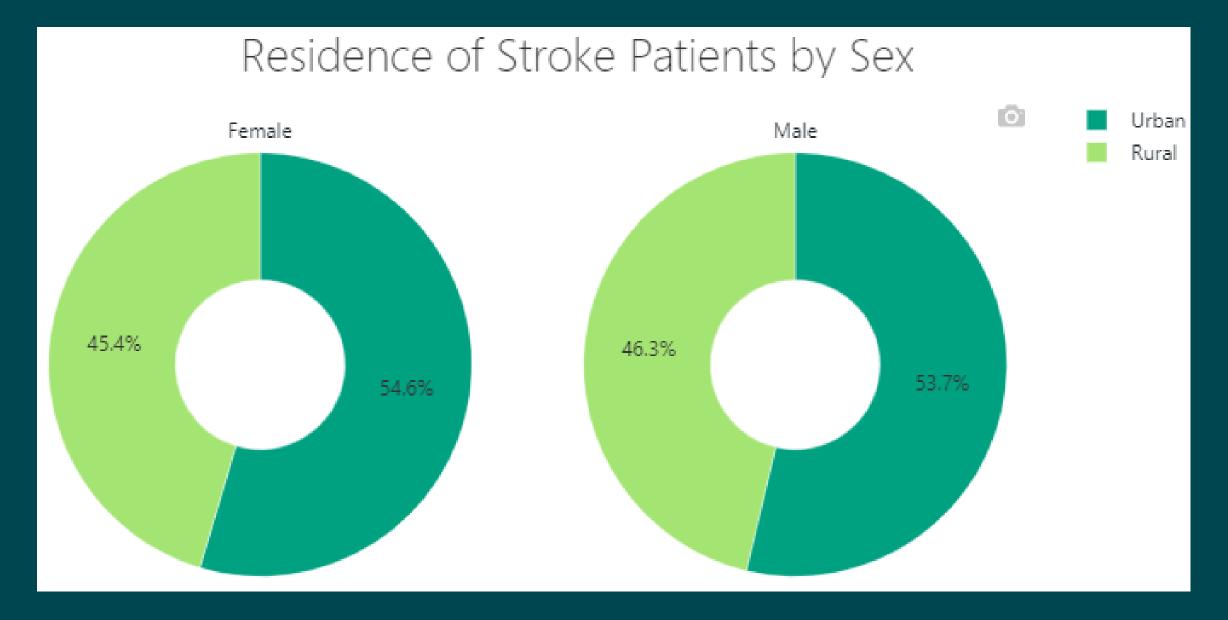
Based on the graph, a significantly larger proportion of stroke patients were found to be married, indicating a notable association between marital status and stroke incidence.



This analysis demonstrates that nearly 50% of stroke patients have either formerly smoked or currently smoke (112 out of 249). These findings emphasize the importance of considering both past and present smoking status when assessing stroke risk factors



The data reveals that the most stroke patients lived in urban areas. This suggests a potential correlation between urban residence and stroke occurrence, indicating that urban environments may contribute to an increased risk of stroke among both males and females.



Within this dataset, we observed that the average age at which strokes occurred was 67 years old.

