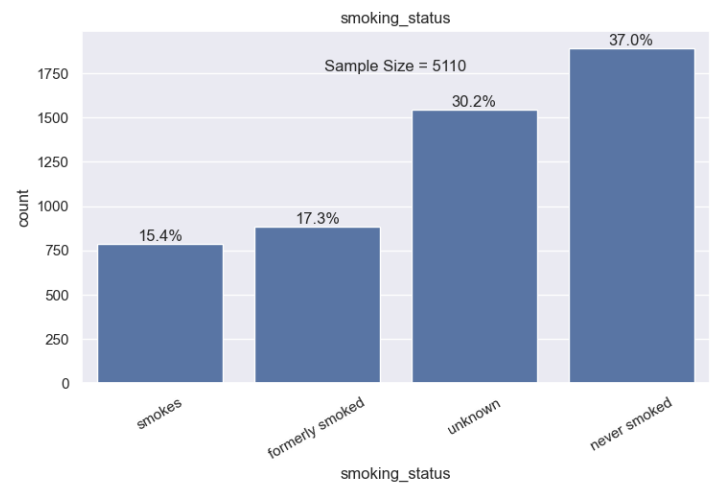
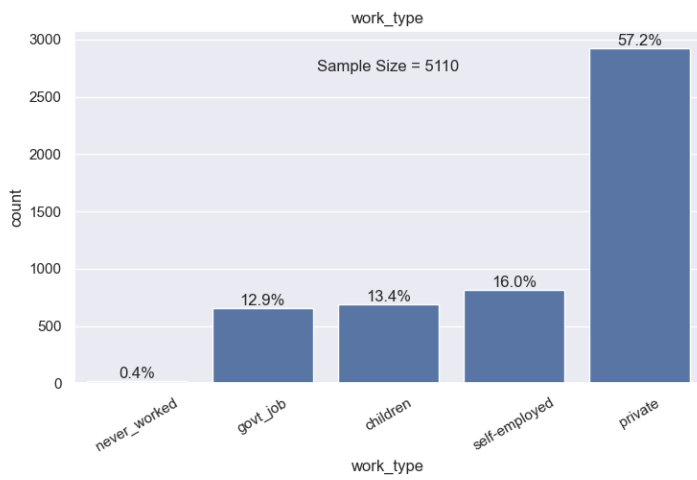
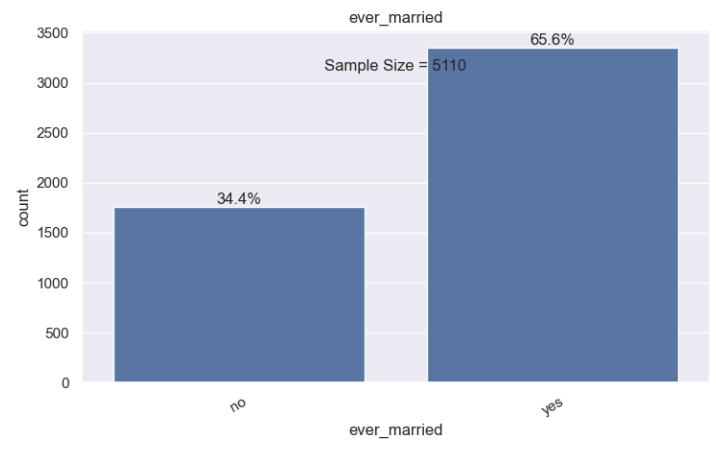
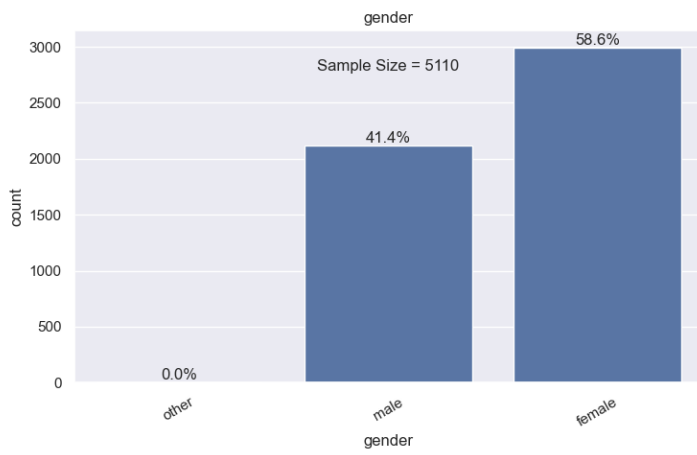


Single Countplot Barchart



Single Countplot Barchart Google Gemini Response

The data suggests the following insights:

- There is a higher proportion of female participants (58.6%) compared to males (41.4%). This suggests that the target audience of the product or service being investigated may lean towards females.
- A majority of the participants (65.6%) have been married at some point in their lives.
- The majority of participants (57.2%) are employed in the private sector.
- A significant number of participants (37%) have never smoked.

Based on these findings, actionable insights for marketing can be formulated:

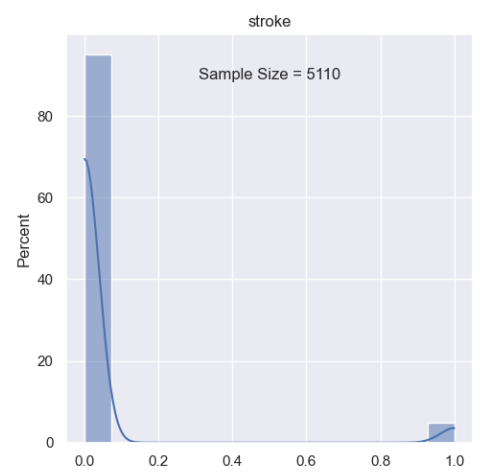
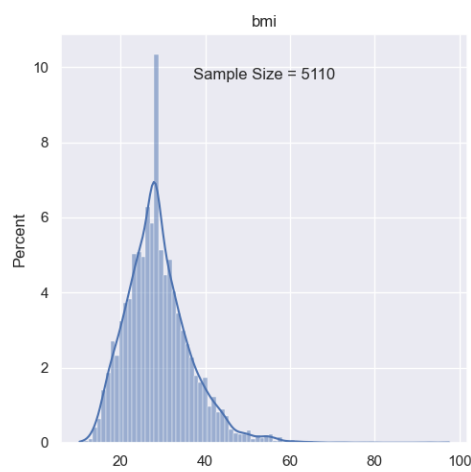
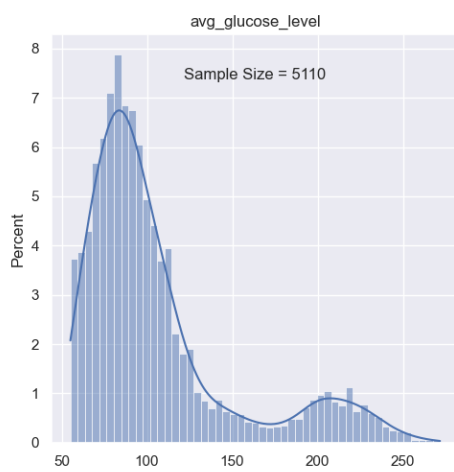
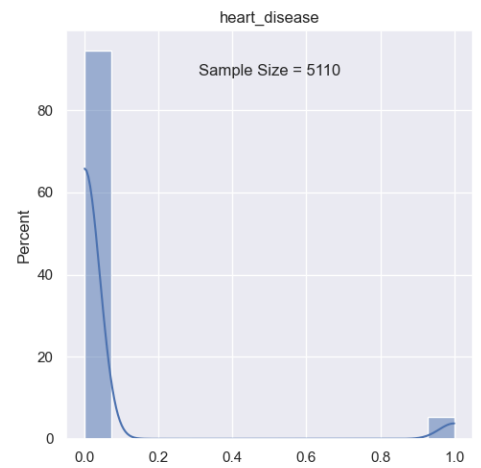
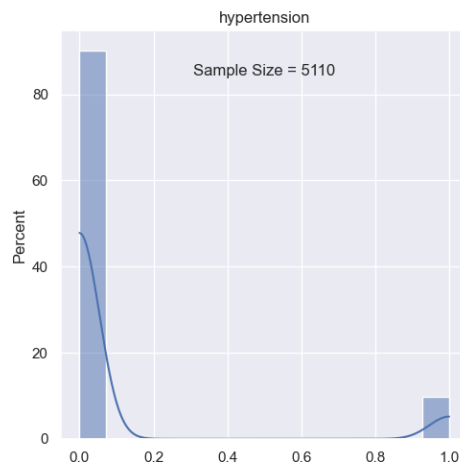
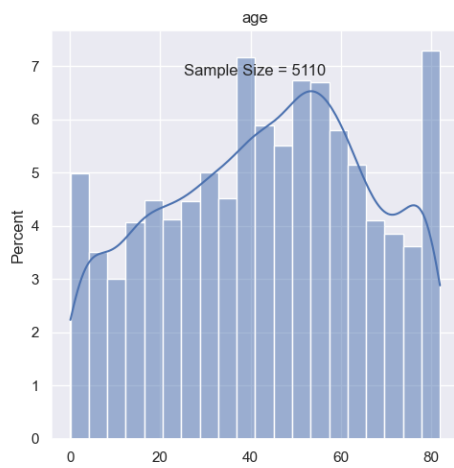
- **Target marketing campaigns towards females.**
- **Consider incorporating messaging or campaigns that cater to the needs and interests of married individuals.**
- **Focus on marketing strategies that resonate with individuals employed in the private sector.**
- **Highlight the benefits of a healthy lifestyle, particularly in relation to smoking cessation.**

It's important to note that these are just preliminary insights. Further analysis and market context are needed to develop a comprehensive marketing strategy. For example:

- **Market context:** What is the product or service being marketed? Who are the competitors? What are the current market trends?
- **Further analysis:** Are there any other factors that may influence consumer behavior, such as age, income, or location?

By considering these additional factors, you can develop a more effective and targeted marketing strategy.

Single Histplot



Single Histplot Google Gemini Response

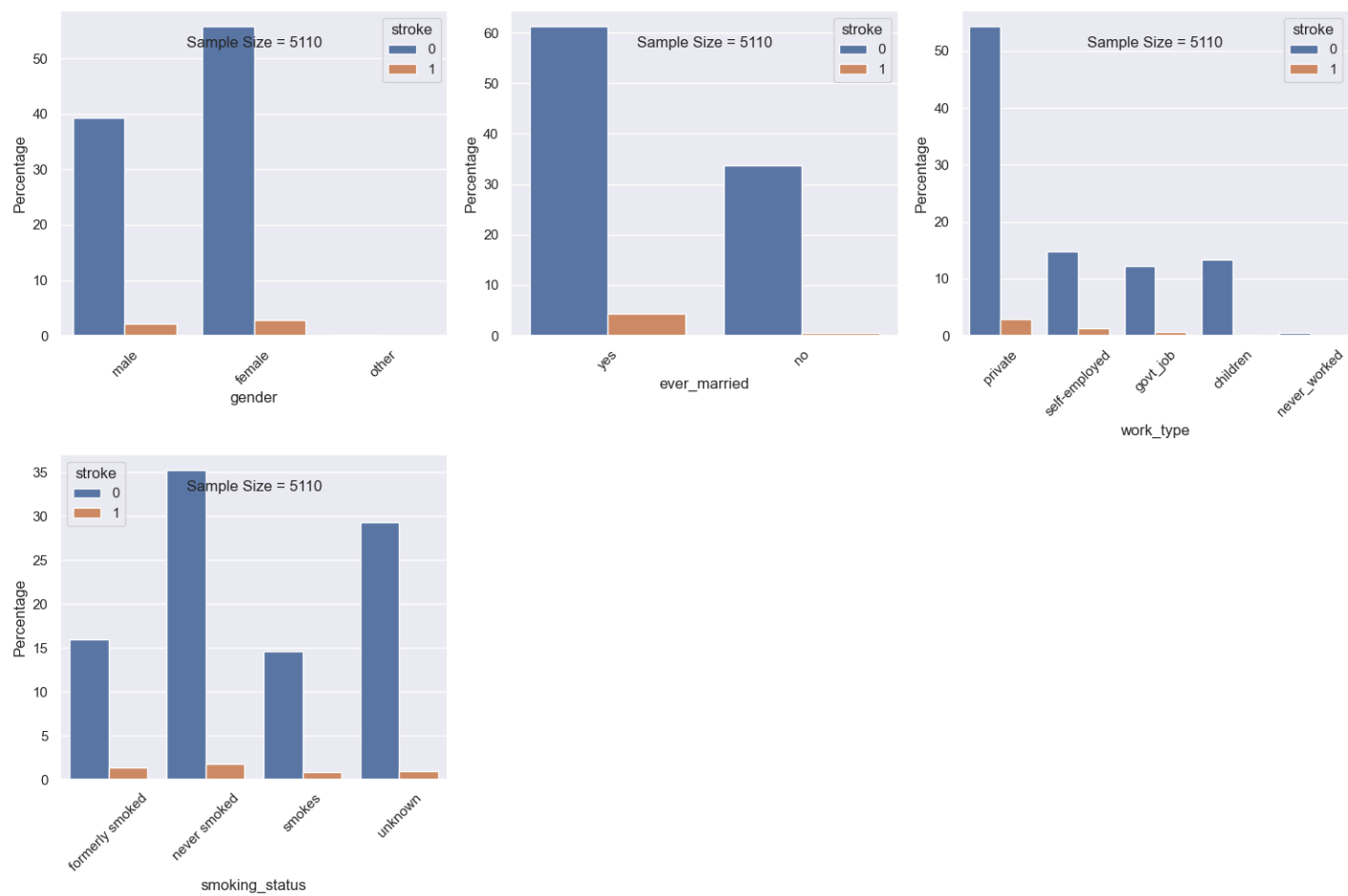
The data shows that the majority of the sample is relatively healthy, with a low incidence of hypertension, heart disease and stroke. The average glucose level is also relatively low. The majority of the sample is between 40-60 years of age with a bimodal distribution in age.

****Actionable Insights:****

- * The majority of the sample is relatively healthy, so marketing campaigns could target this group with products or services that promote healthy living.
- * There is a smaller population of patients with hypertension, heart disease, and stroke. This segment could be targeted with marketing campaigns for preventative care and treatment options.
- * The bimodal distribution in age could mean that there are two distinct groups in the sample. For example, the older group may be more interested in preventative care, while the younger group may be more interested in fitness and nutrition.
- * There is an opportunity to promote healthy lifestyle choices, especially in the younger group, to prevent future health issues.

****Note:**** The data in the chart is only a sample and may not be representative of the general population. More information is needed to draw any firm conclusions.

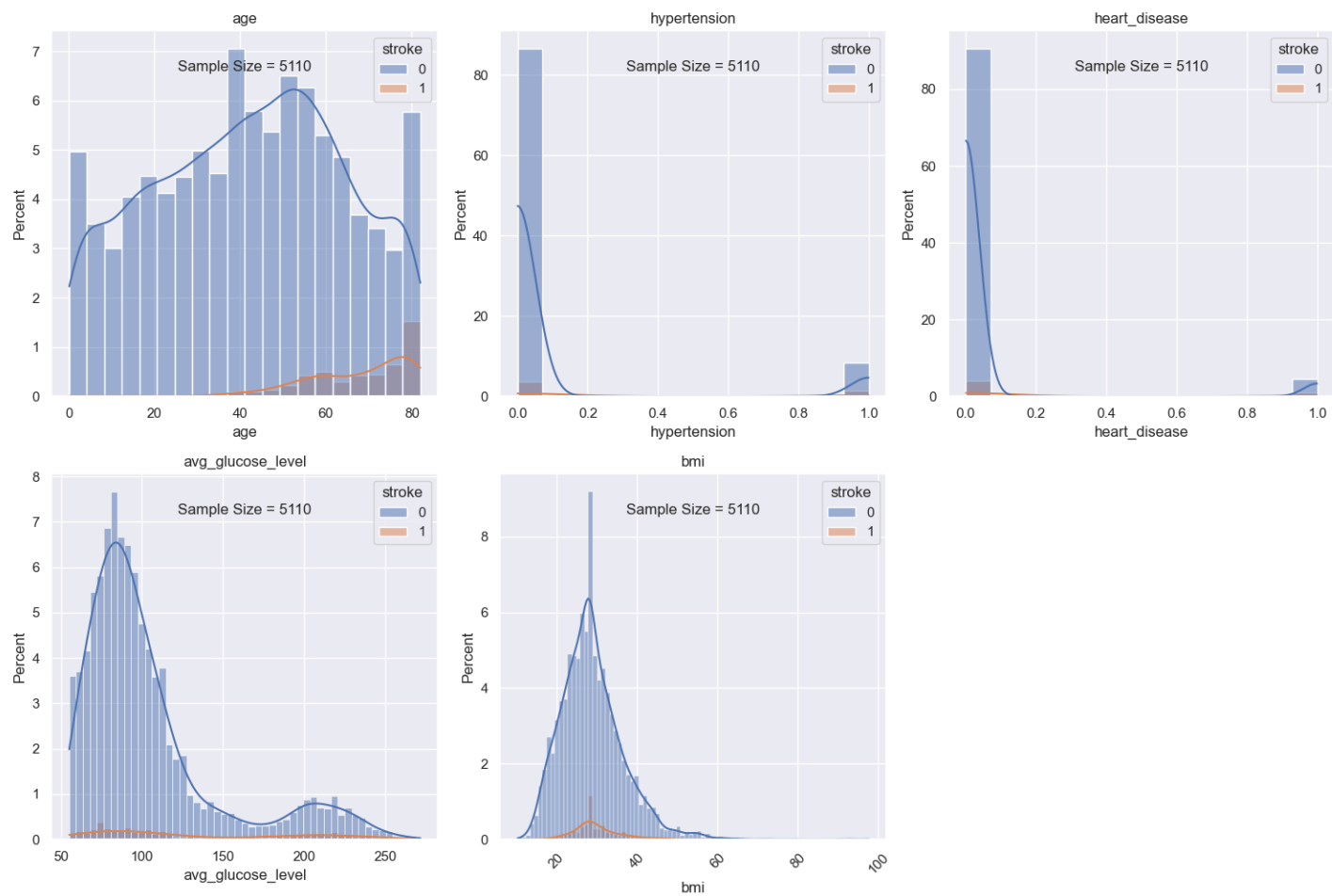
Multiclass Countplot Barchart



Multiclass Countplot Barchart Google Gemini Response

The data suggests that females are more likely to have a stroke than males. The data also suggests that people who have never smoked are more likely to have a stroke than people who have smoked in the past or who are currently smokers. However, it is important to note that this is just an observational study, and it is not possible to determine cause and effect from this data.

Multiclass Histplot



Multiclass Histplot Google Gemini Response

The chart shows the distribution of age, hypertension, heart disease, average glucose level, and bmi for people who had a stroke (stroke=1) and people who did not (stroke=0).

****Key Insights:****

* ****Age:**** The distribution of age is similar for people who had a stroke and those who did not. There is a slight increase in the proportion of people who had a stroke in the older age groups.

* ****Hypertension:**** The proportion of people with hypertension is significantly higher among those who had a stroke.

* ****Heart disease:**** The proportion of people with heart disease is significantly higher among those who had a stroke.

* ****Average glucose level:**** The distribution of average glucose level is similar for people who had a stroke and those who did not. However, there is a slight increase in the proportion of people who had a stroke in the higher glucose levels.

* ****BMI:**** The distribution of BMI is similar for people who had a stroke and those who did not. However, there is a slight increase in the proportion of people who had a stroke in the higher BMI categories.

****Actionable Insights:****

* ****Target older adults:**** The data suggests that older adults are at a higher risk of stroke. Marketers could target older adults with educational materials and campaigns about stroke prevention.

* ****Focus on hypertension and heart disease:**** The data clearly shows that hypertension and heart disease are strong risk factors for stroke. Marketers could partner with healthcare providers to offer

screenings for these conditions and provide information on how to manage them.

* **Promote healthy lifestyle choices:** The data suggests that high glucose levels and BMI are associated with an increased risk of stroke. Marketers could promote healthy eating habits and physical activity as part of a stroke prevention campaign.

It's important to note that these are just preliminary insights based on the limited data provided. Further analysis with a larger dataset is needed to draw more definitive conclusions.