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Project 3 ASU AI Course: Graphing Page

[Summary stats: dataframe info](#) ▾[Summary stats: shape and value_counts](#) ▾

The Request: Create the python code to create an interactive scatter chart with the linear regression line overlay in streamlit. There should be two selectionbox's where the x and y columns from df_initial can be selected. The chart would then update to show a scatter plot and regression line for the selected x and y columns. use sklearn for the regression.. Add the regression equation and a computed R squared value as chart annotations. Use R2 as the R squared label.

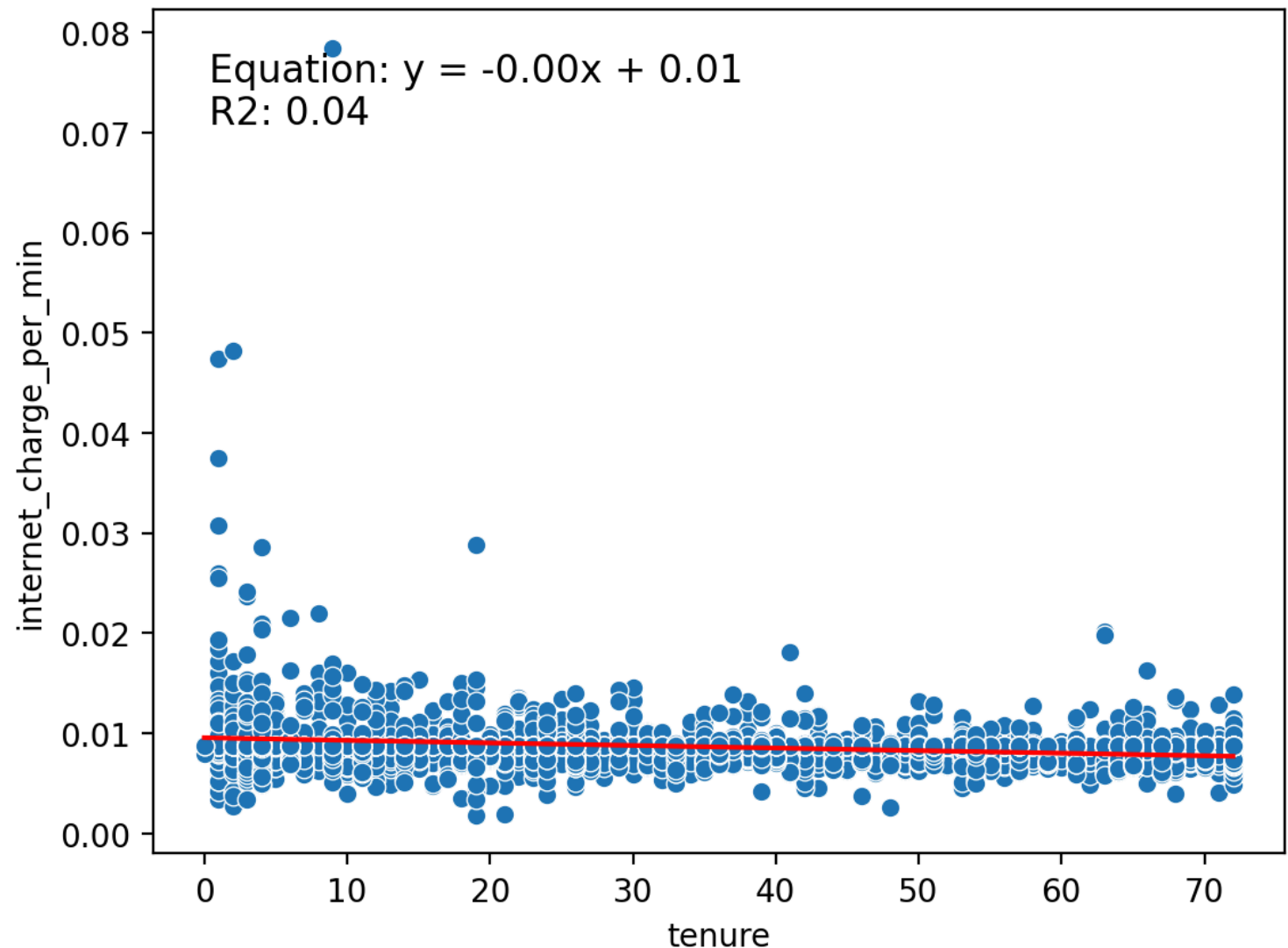
Interactive Scatter Plot with Regression Line

Select the x-axis column

tenure ▾

Select the y-axis column

internet_charge_per_min ▾



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Interactive Scatter Plot with Regression Line

Select X-axis column

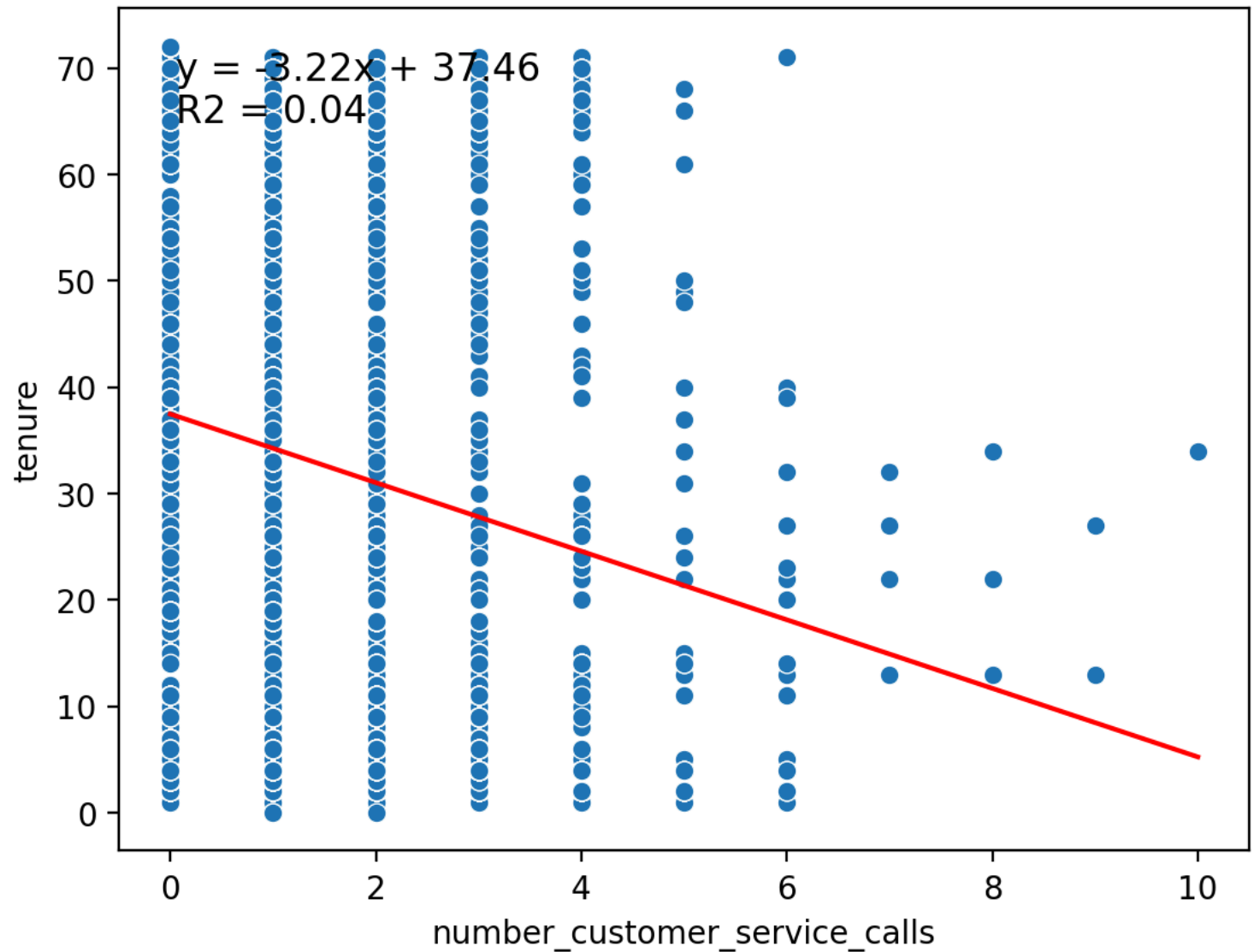
number_customer_service_calls

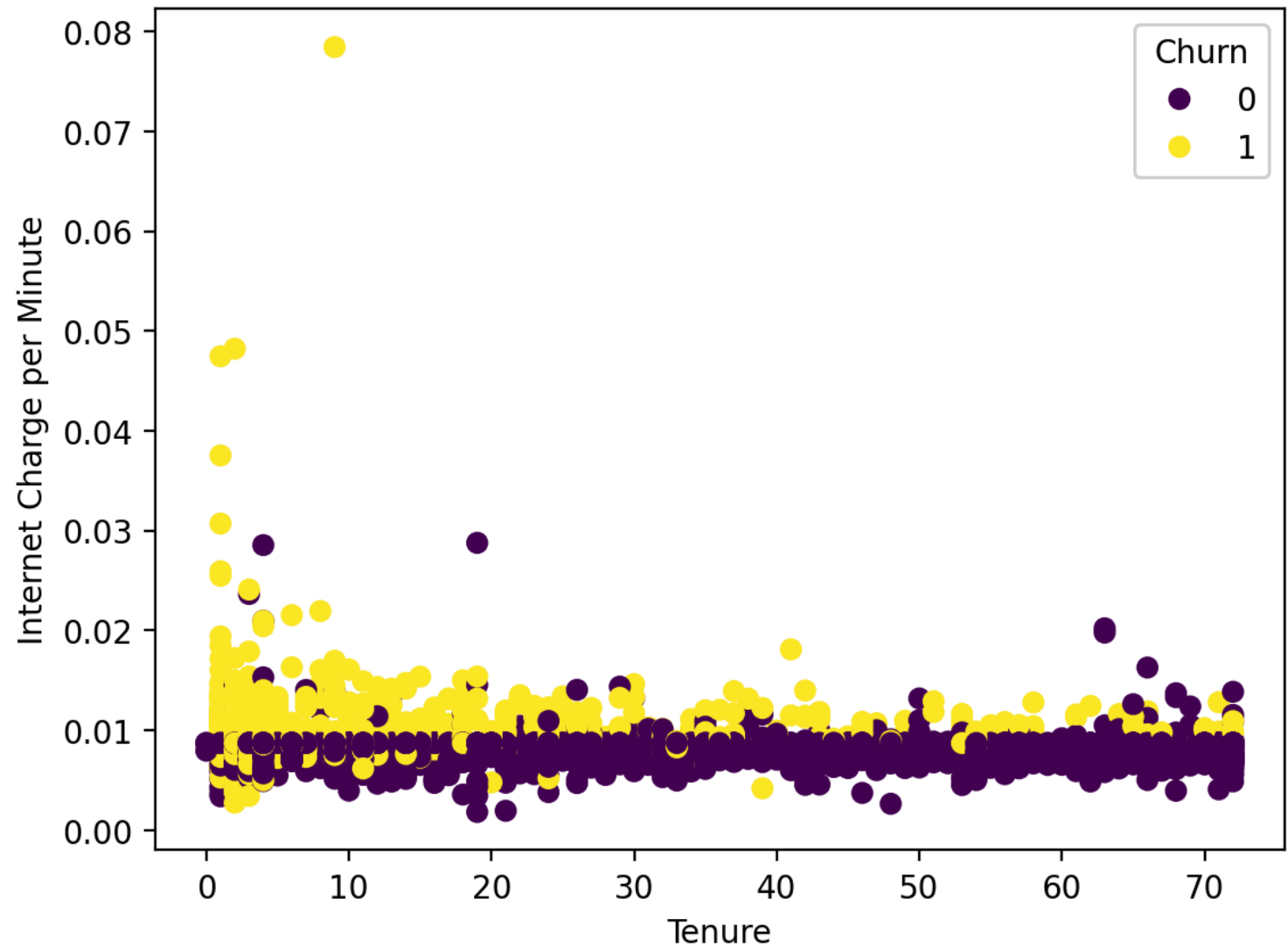
▼

Select Y-axis column

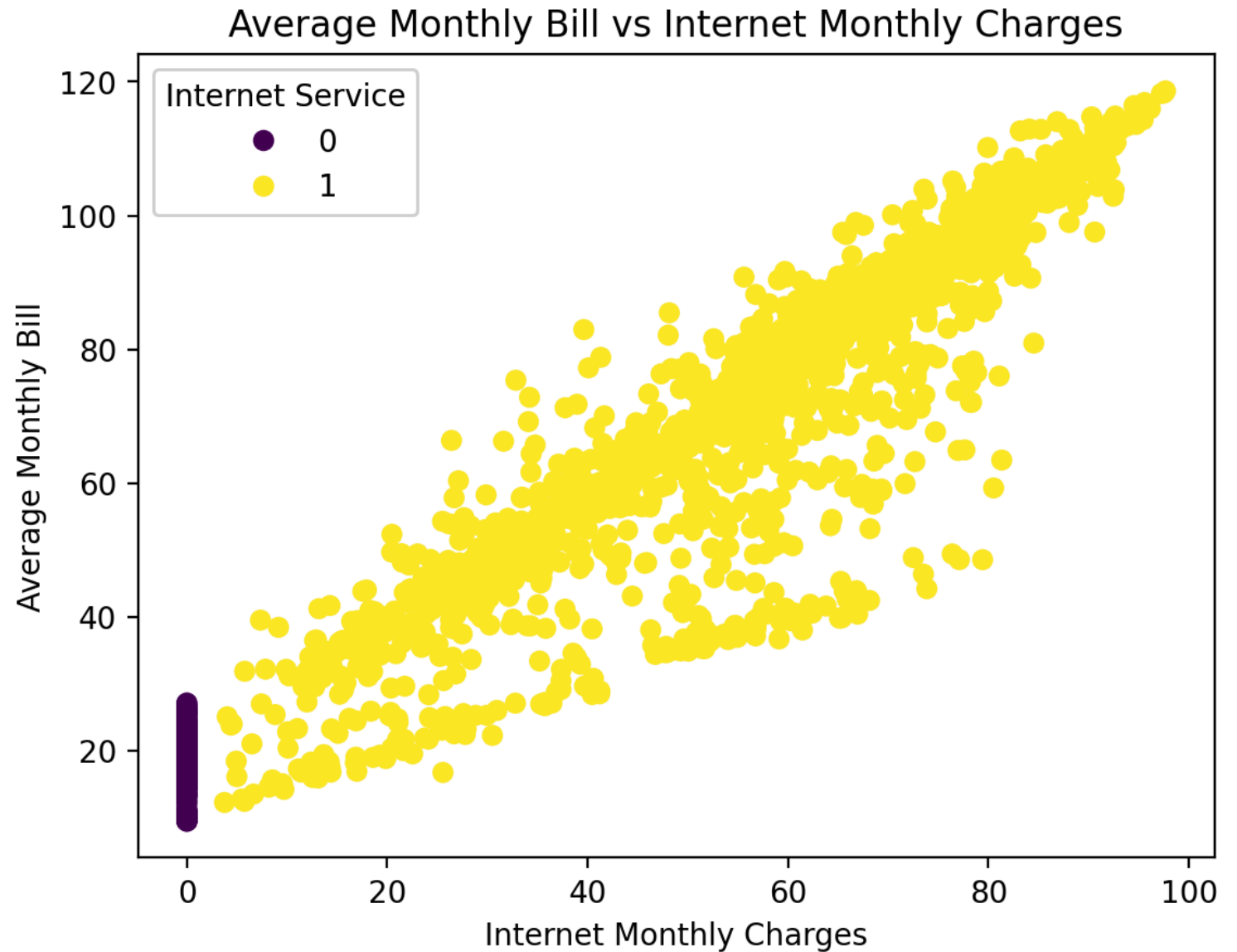
tenure

▼

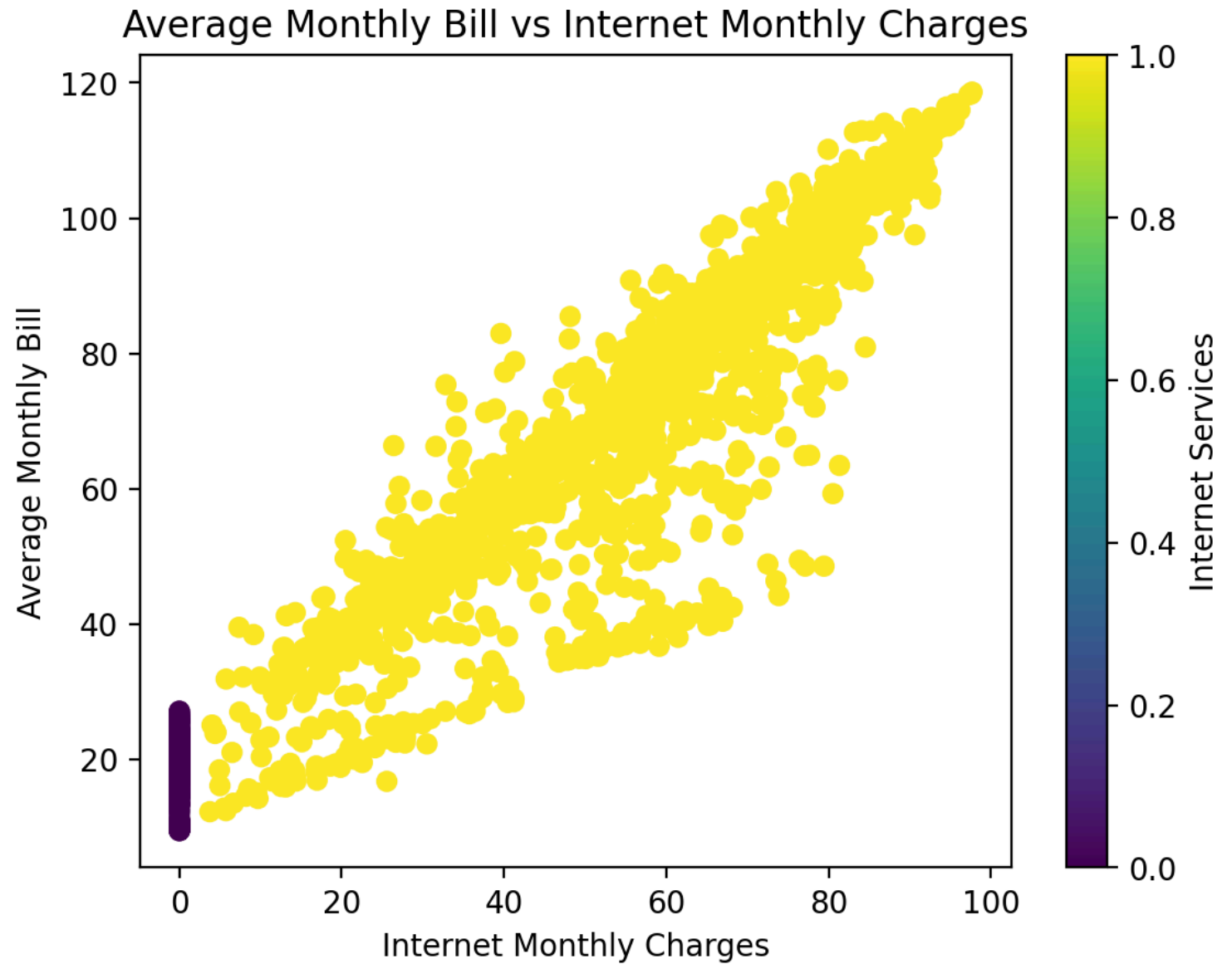




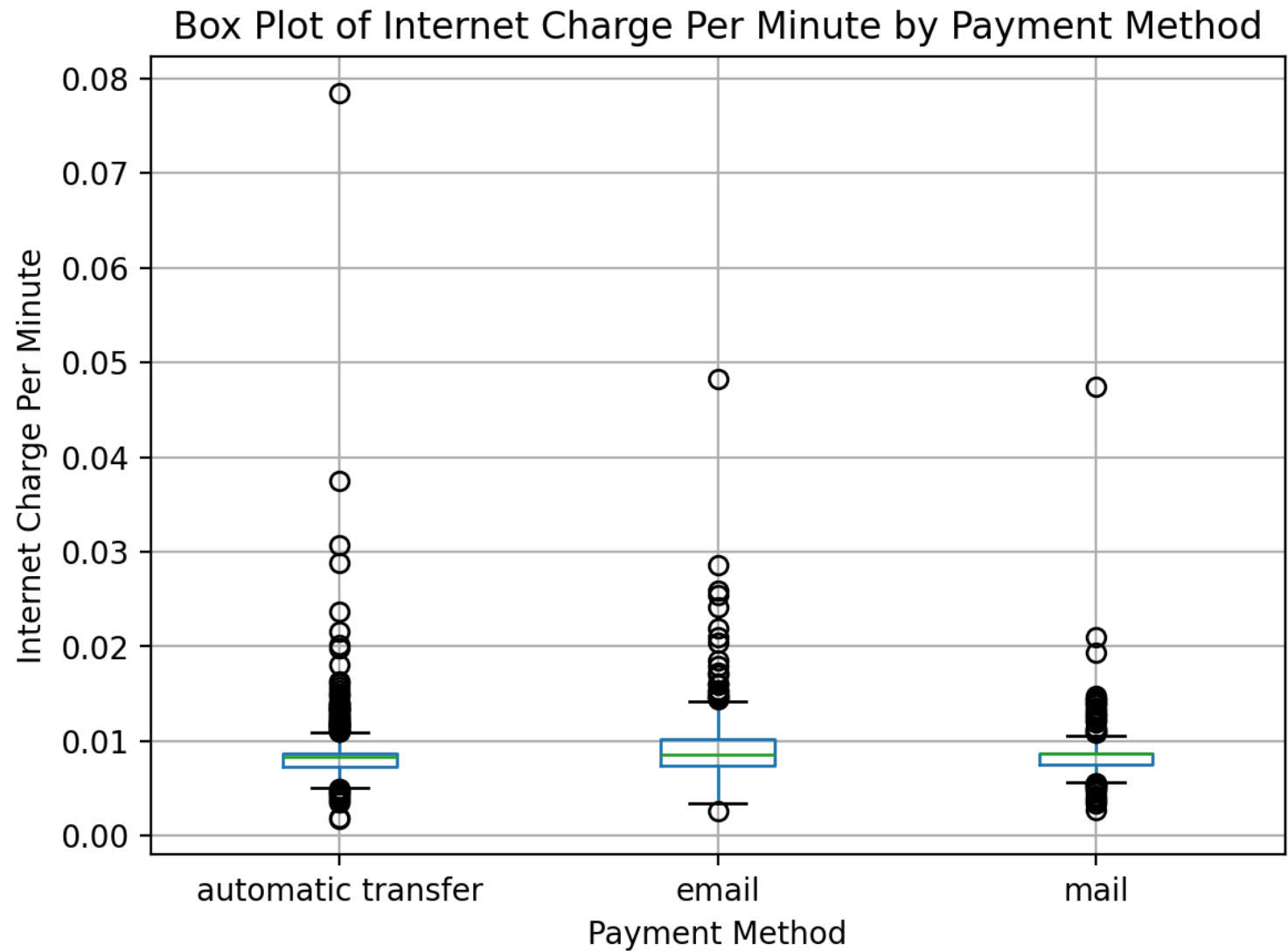
The Request: Plot avg_monthly_bill versus internet_monthly_charges. Color the points by internet_service. Add a legend for the color for internet_service.



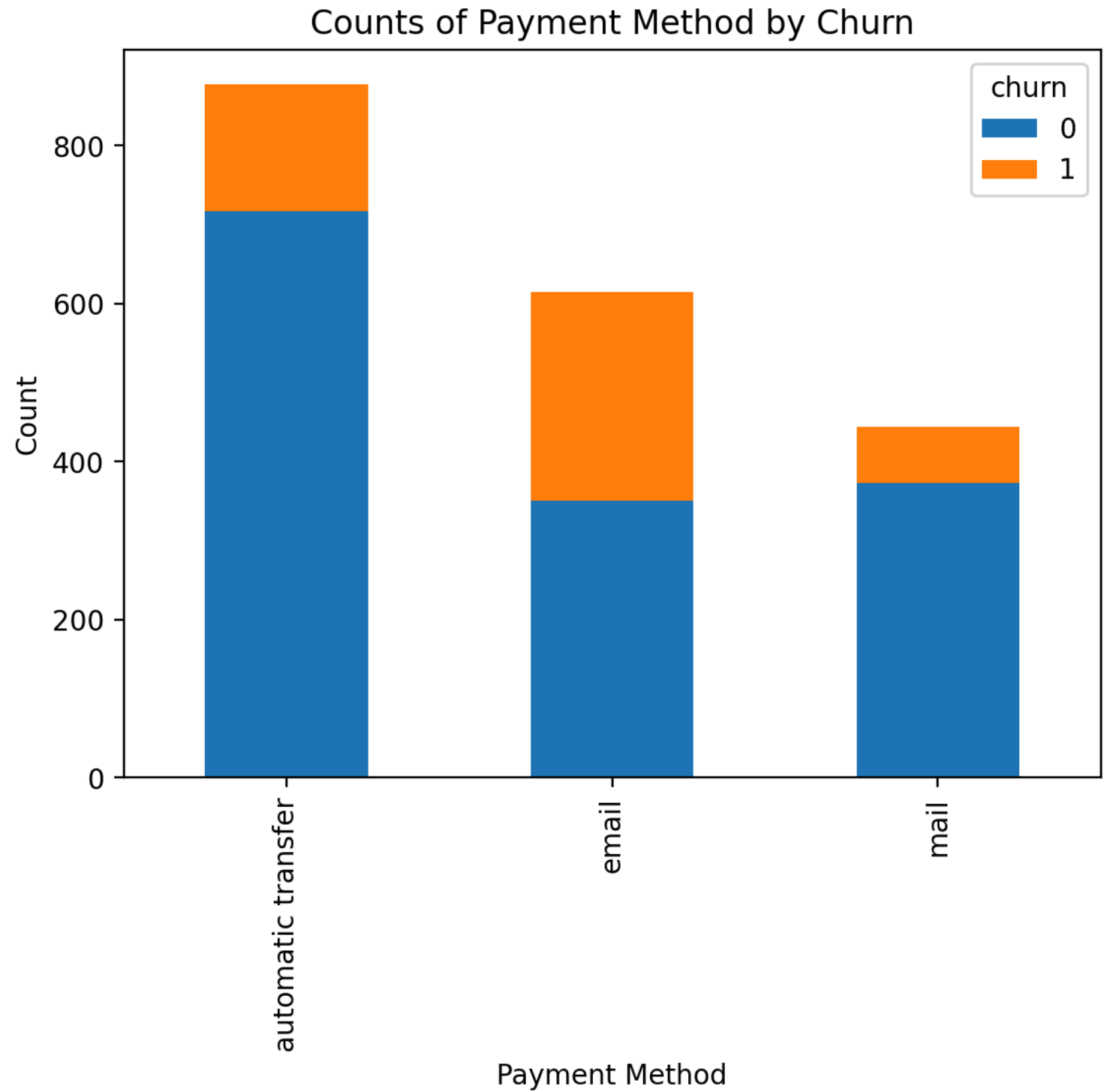
The Request: Plot `avg_monthly_bill` versus `internet_monthly_charges`. Color the points by `internet_service`. Add a legend for the color for `internet_service`.



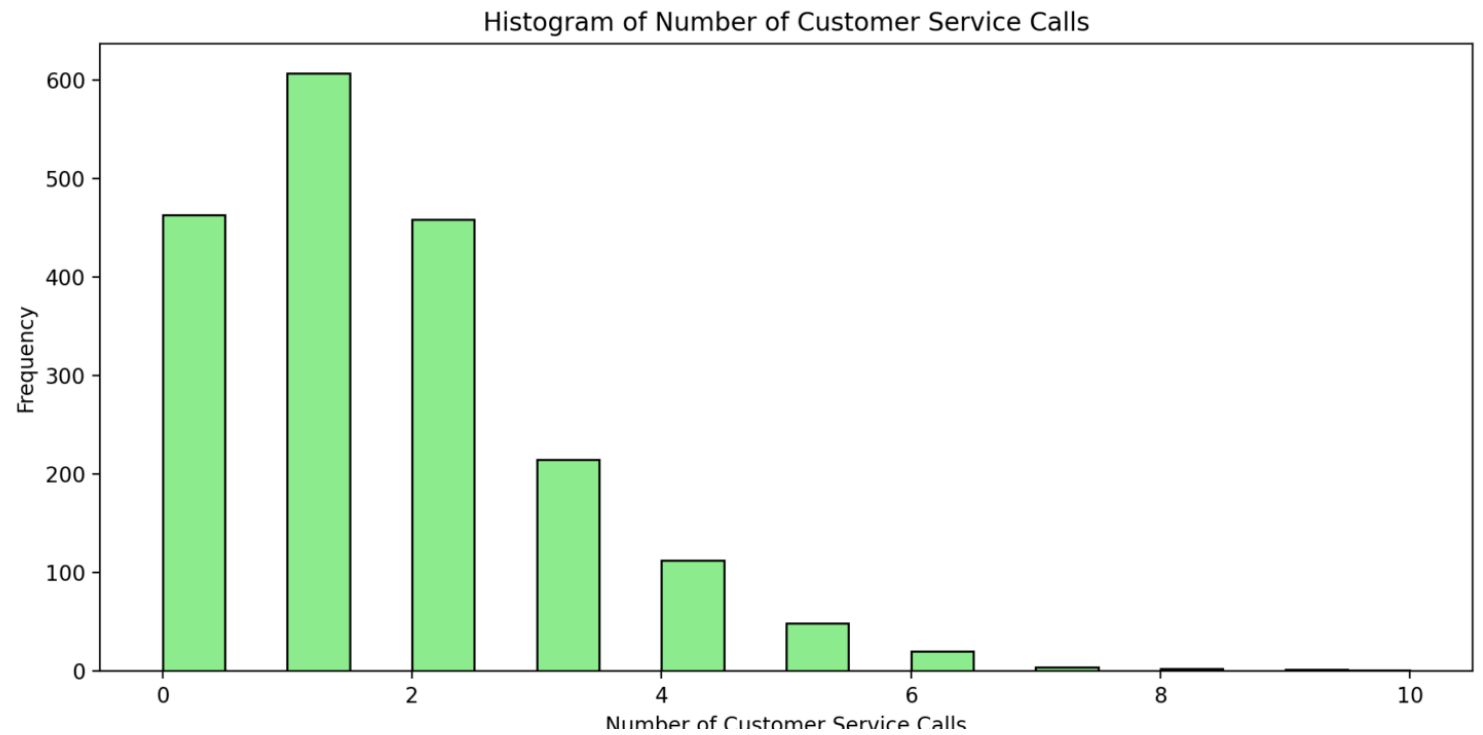
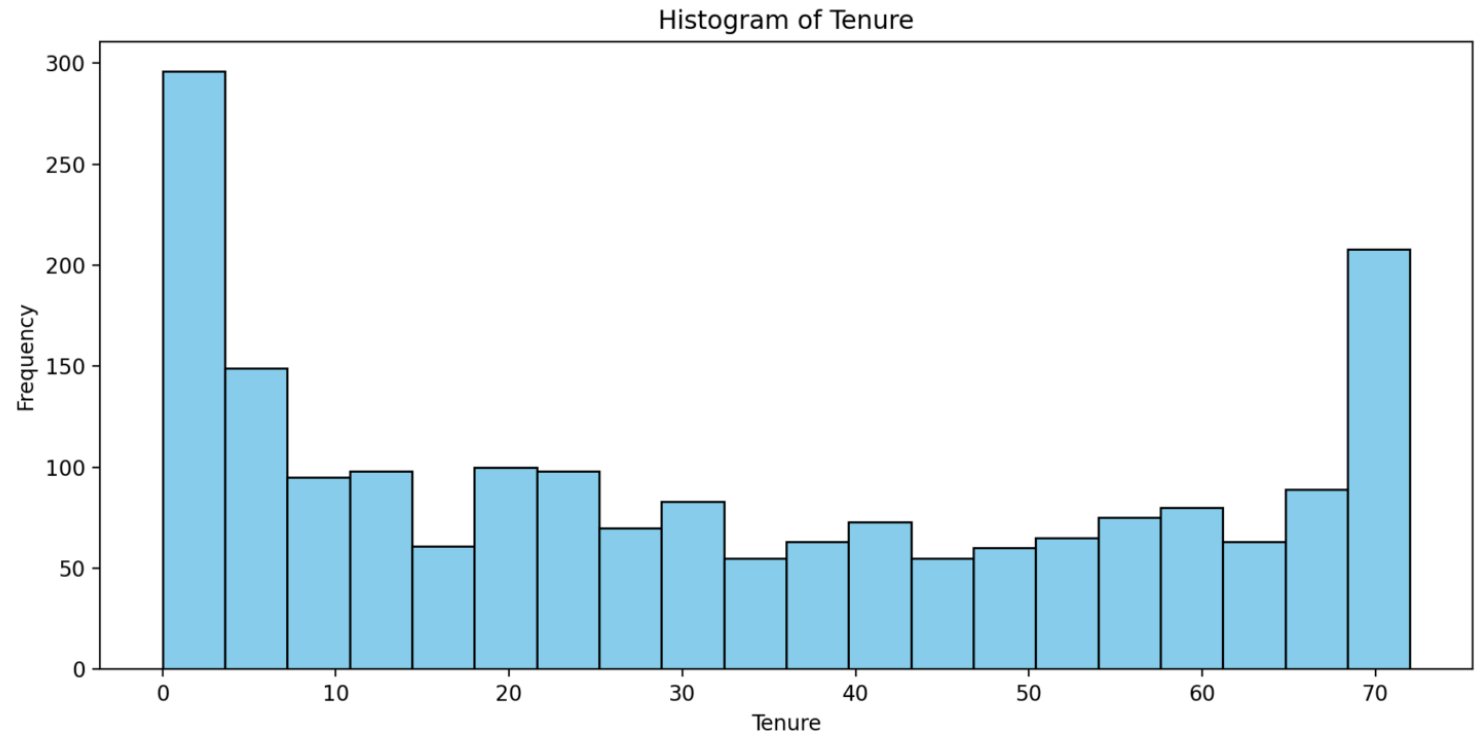
The Request: Create a box plot of internet_charge_per_min with payment_method on the x-axis

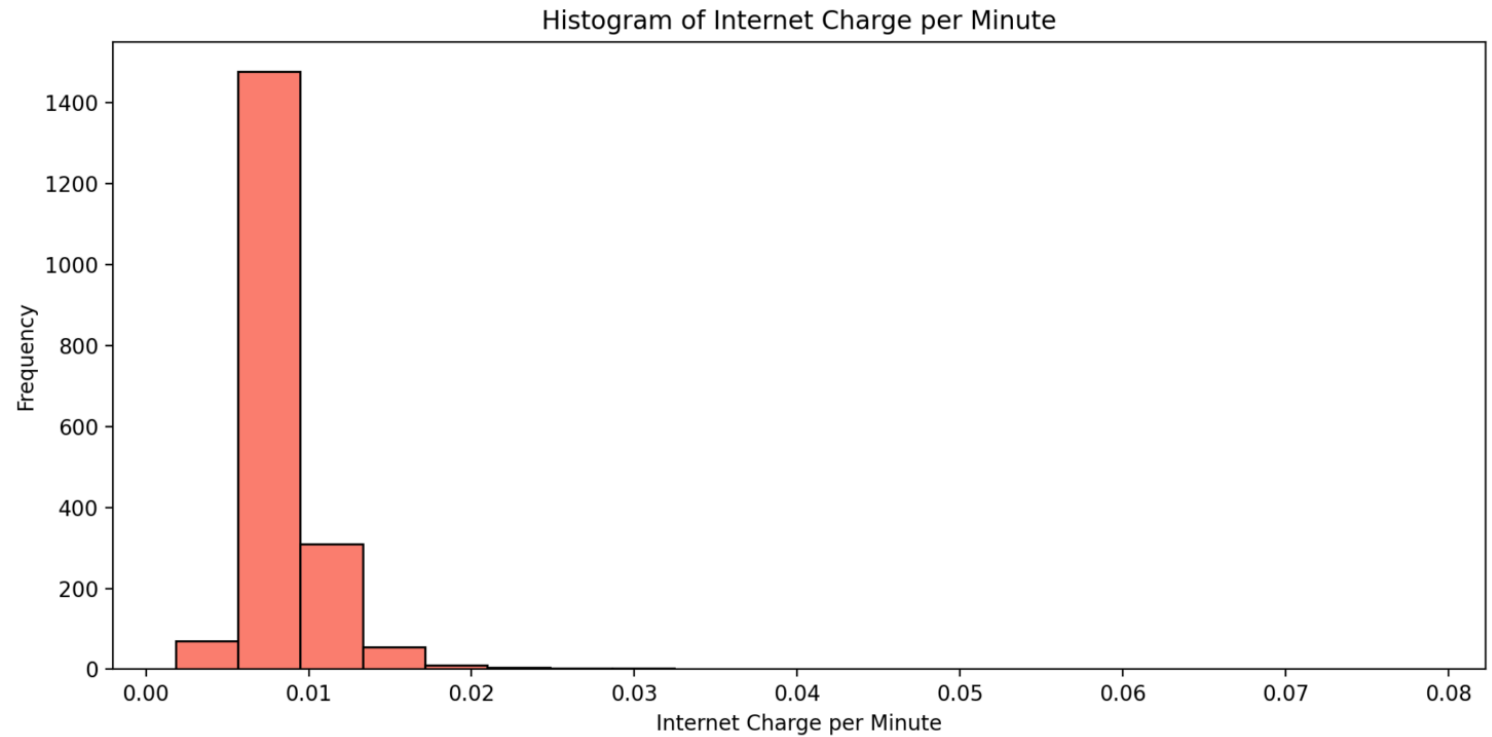


The Request: Generate a stacked bar chart of counts of payment_method. The bottom part of the stacked bar should be for churn=0 versus the top of the stacked bar should be for churn=1.

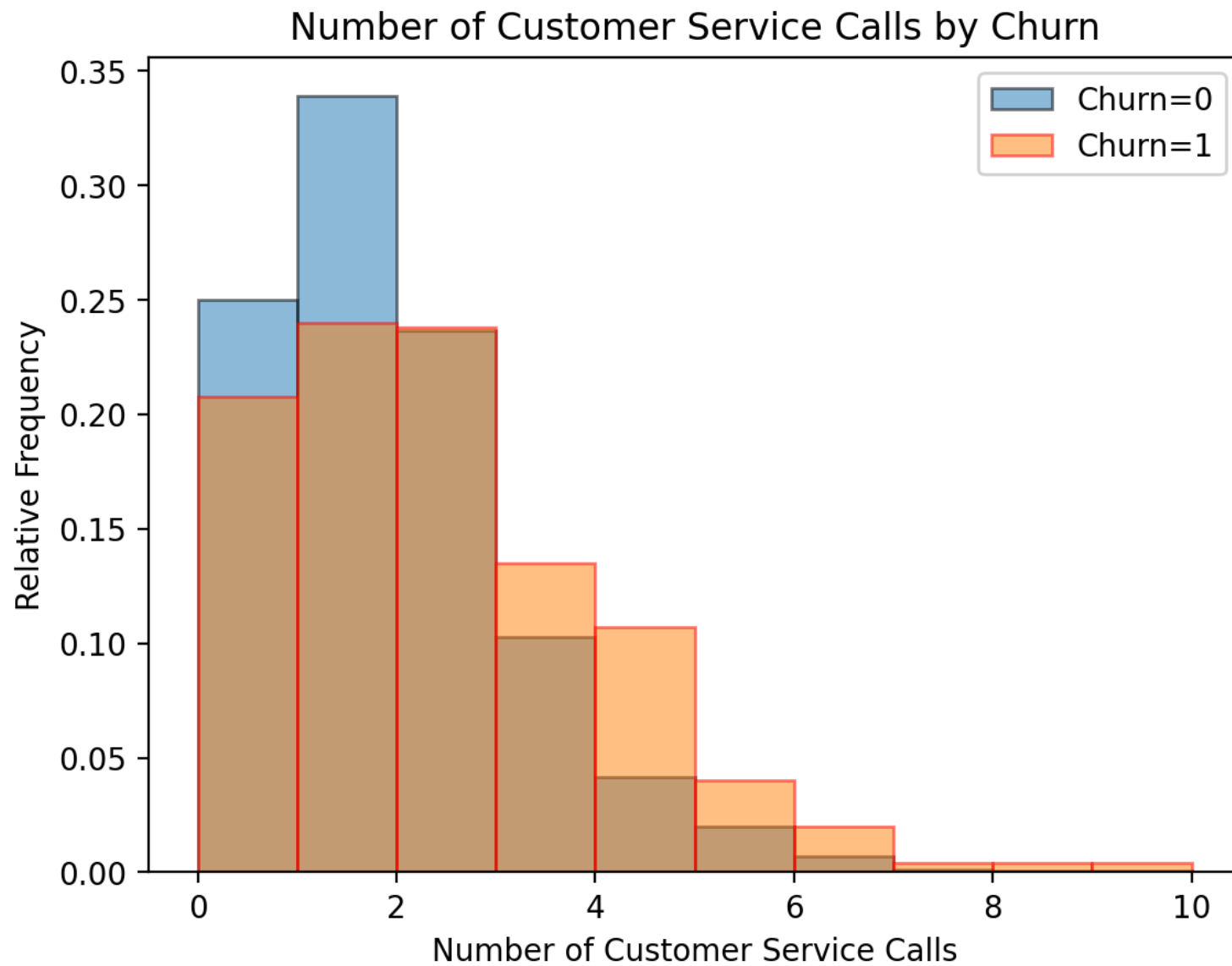


The Request: Create histograms for tenure, number_customer_service_calls and internet_charge_per_min





The Request: Create overlapping histograms for `number_customer_service_calls` for `churn=0` versus `churn=1`. Since there are many more data rows where `churn=0`, convert the data to relative frequency.



The Request: Create histograms for tenure, number_customer_service_calls and internet_charge_per_min. For the internet_charge_per_min, limit the x axis to 0.03.

