

Factors that Impact the Cost of Health Insurance

by Mikaela Connell



Personal Attributes Analyzed

AGE

SEX

BMI

FAMILY
SIZE

SMOKING
HABITS

REGION

Business Problem

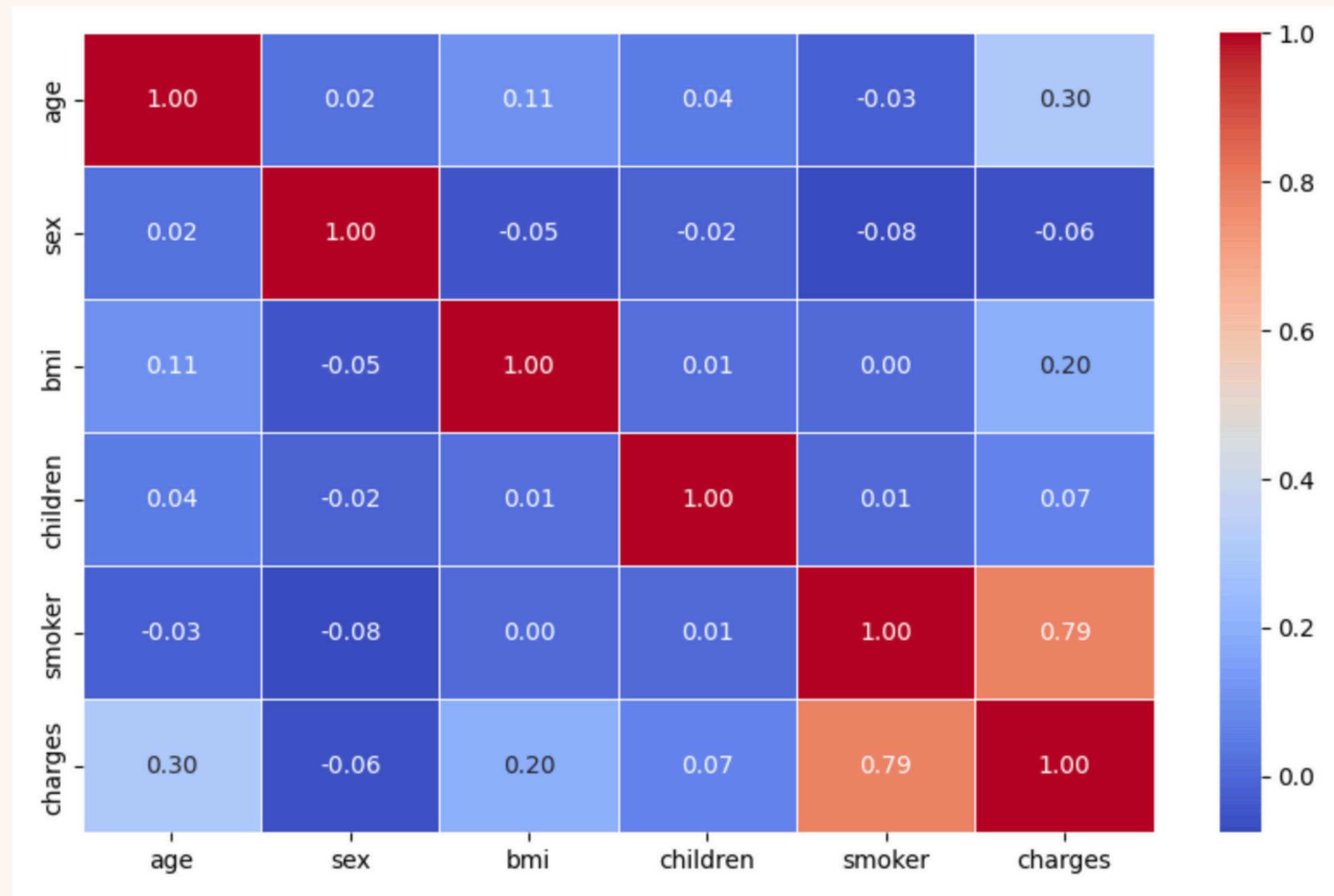
Business Problem:

- *Individuals* in the US aiming to reduce the total costs spent on healthcare
- *Insurance companies* looking to predict which individuals are more likely to have higher costs

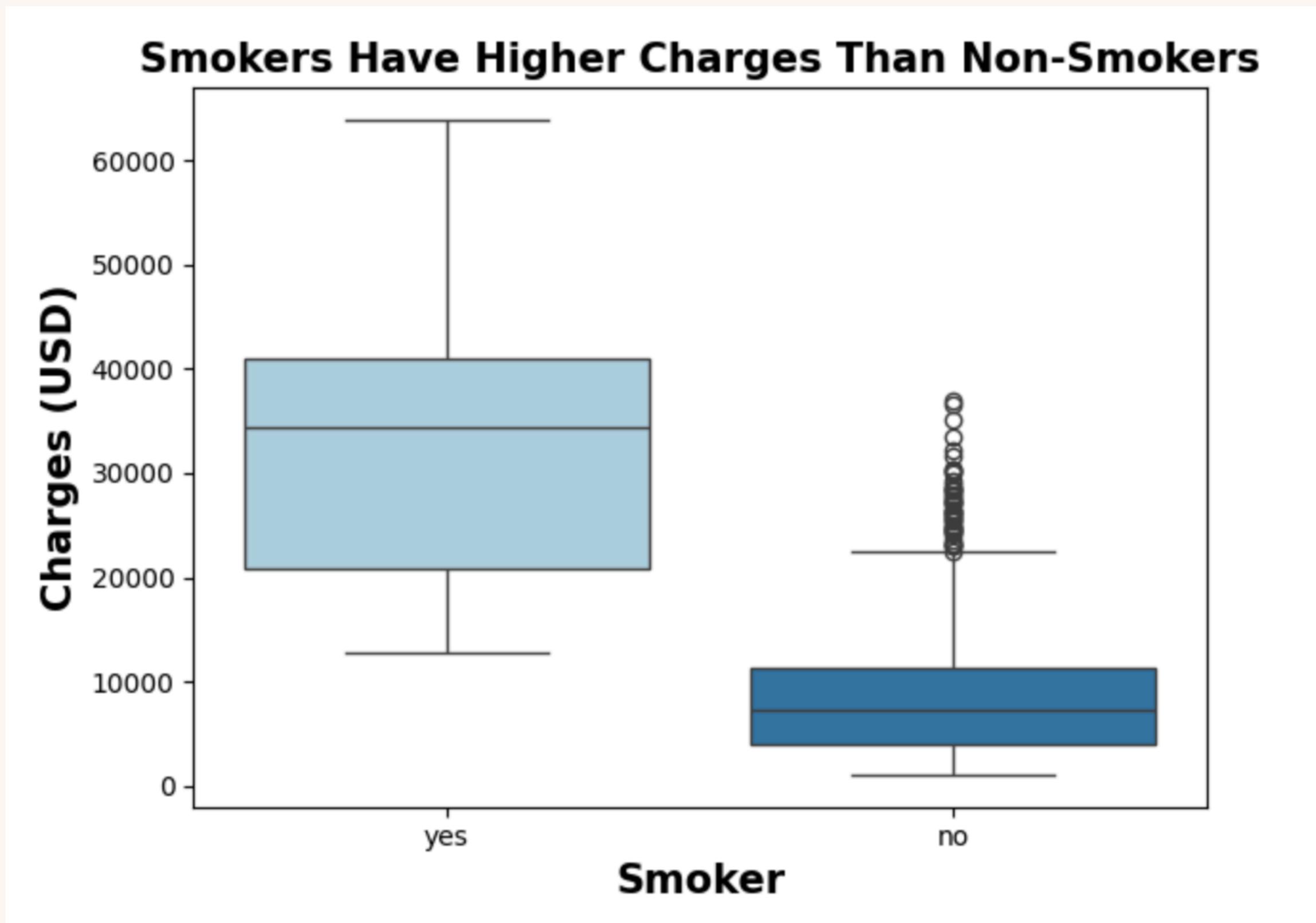
Constraints: The dataset lacks time-wise data



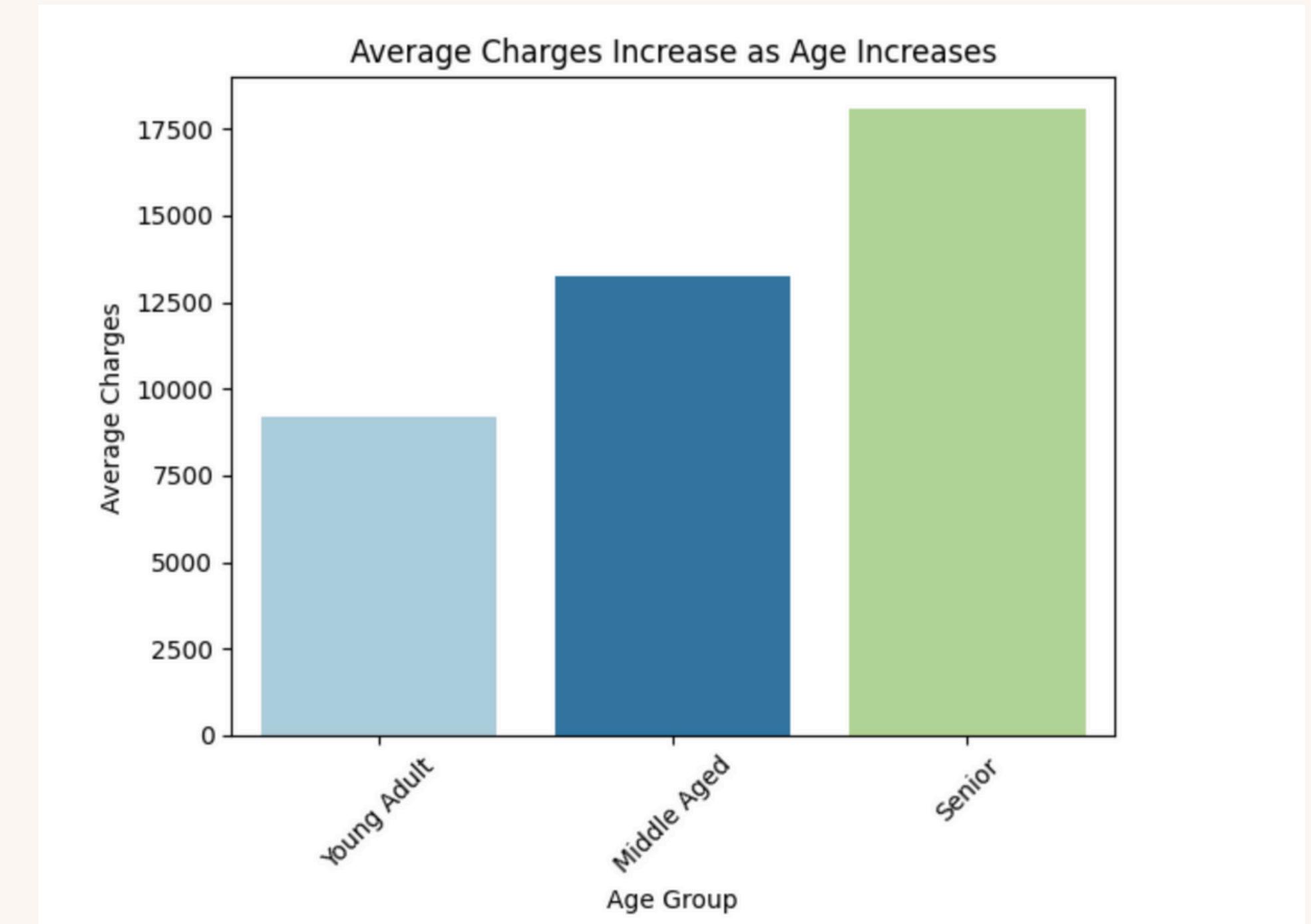
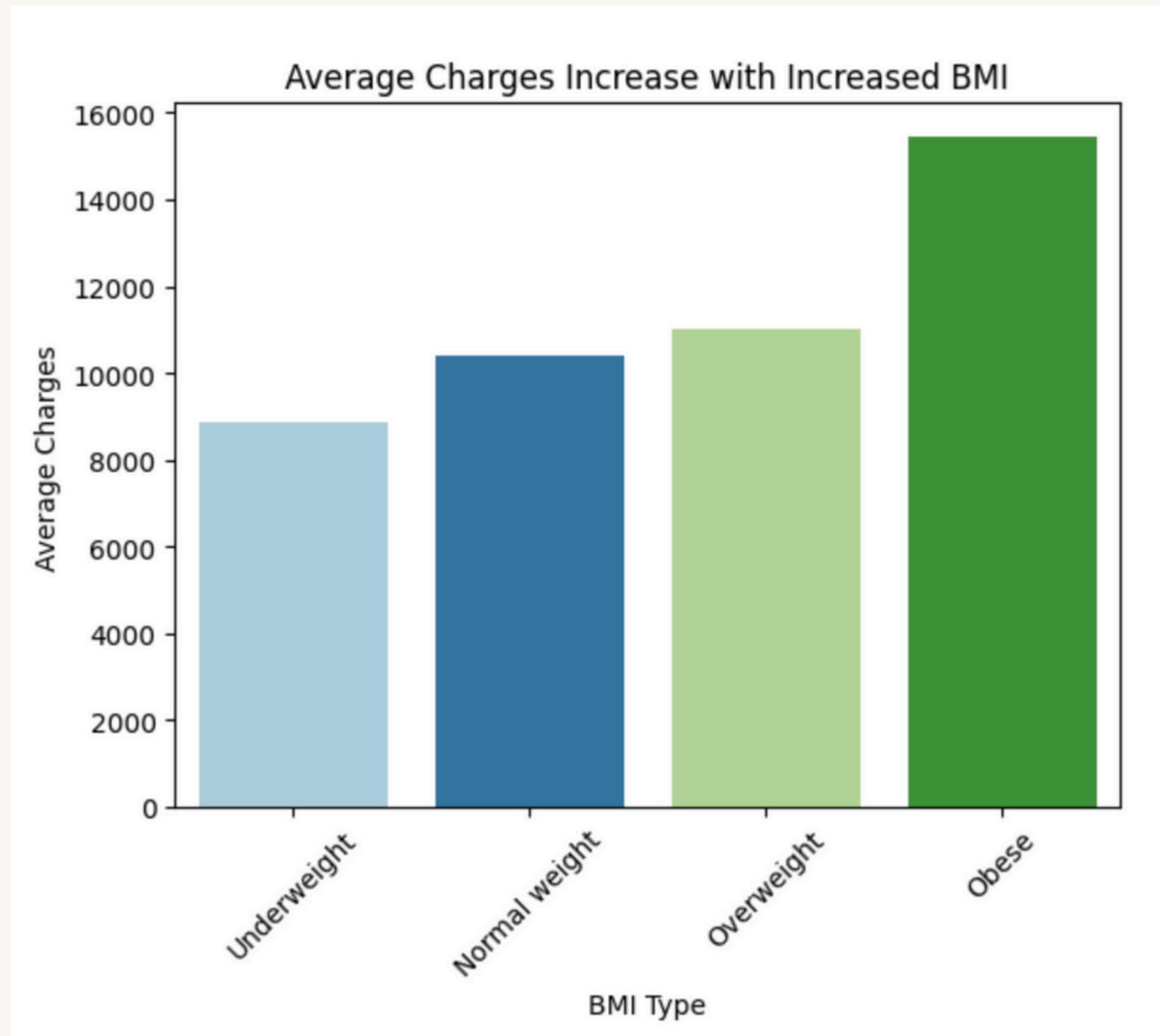
Correlation Heatmap



Smokers vs. Non-Smokers



BMI Types & Age Groups



Summary

- Individuals in the US that identify as smokers, $BMI > 30$, or $age > 50$ are shown to have higher incurred charges for health insurance
- Region, number of children, and sex did not have a strong correlation with the amount of charges incurred



References

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