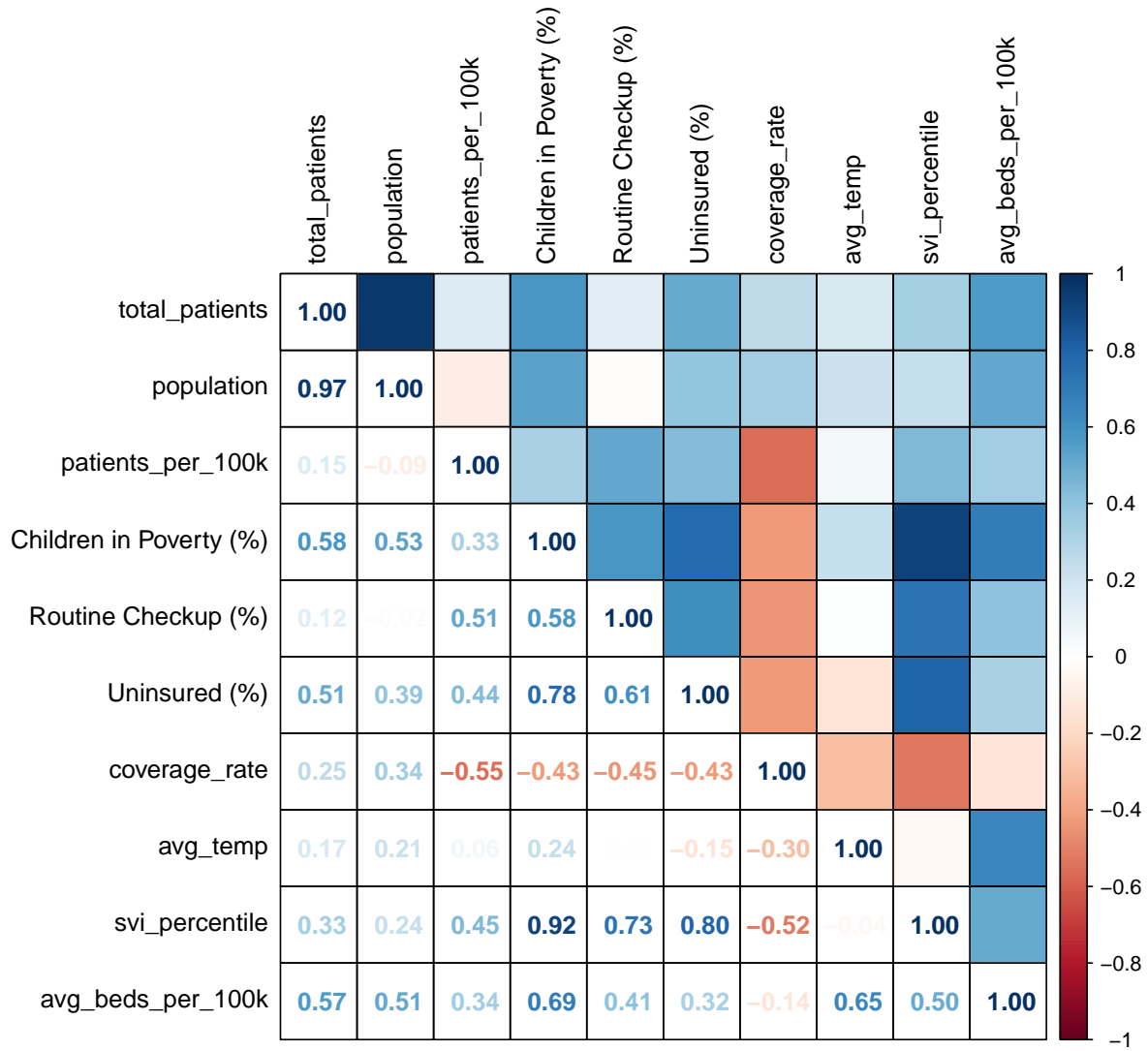# Week 5

Advay Vyas

5/6/25

Contents

Introduction

This week, we are going to conduct multiple linear regression and try to incorporate interaction variables and ANOVA for some additional modeling boosts. The (tentative) indicator variables are flu vaccination coverage rate and uninsured % (from Week 4), temperature (from Week 3), Social Vulnerability Index (SVI) and beds per capita (from Week 2). Since this is my last week until the break ends, I wanted to conduct a sort of final project that would try to tie everything together and hopefully show some real trends from the data that I've web scraped and cleaned.

The old model

A new correlation matrix

The new model

Adding flu vaccination coverage rate

Adding insurance coverage percentage

Adding temperature data

Adding SVI data

Adding beds per capita

ANOVA

Results

Analysis

Conclusion

Week 5

Looking forward

What a ride! For how short this was, it was honestly great.