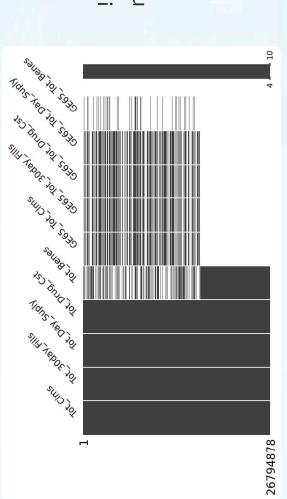
Healthcare and Medicare Data

From Claims to Clarity: Visualizing Medicare Patterns & Provider Impact



Evaluation and cleaning the data

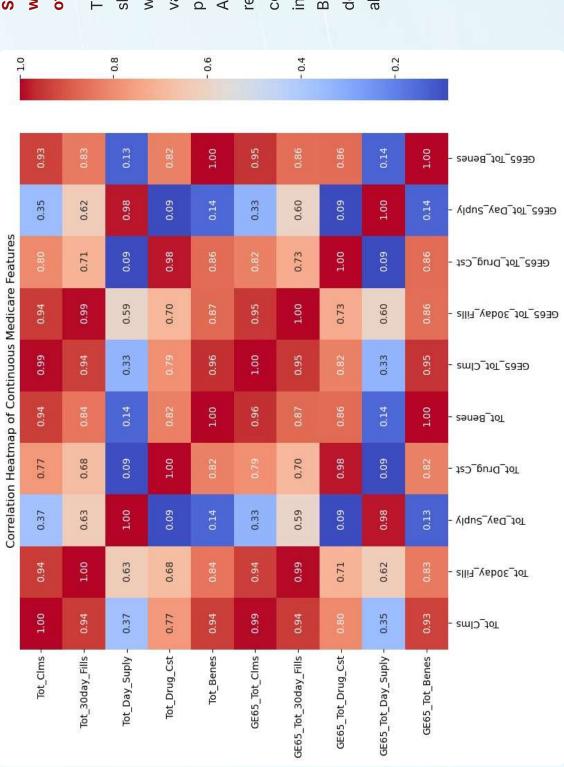


!pip install missingno import missingno as msno msno.matrix(df[continuous_cols], figsize=(12, 6))

I will focus on the First Four Columns but will cleanup the "Total Benefits" to use for some visuals.

Patterns at a Glance:

A Heatmap Exploration of Medicare Data

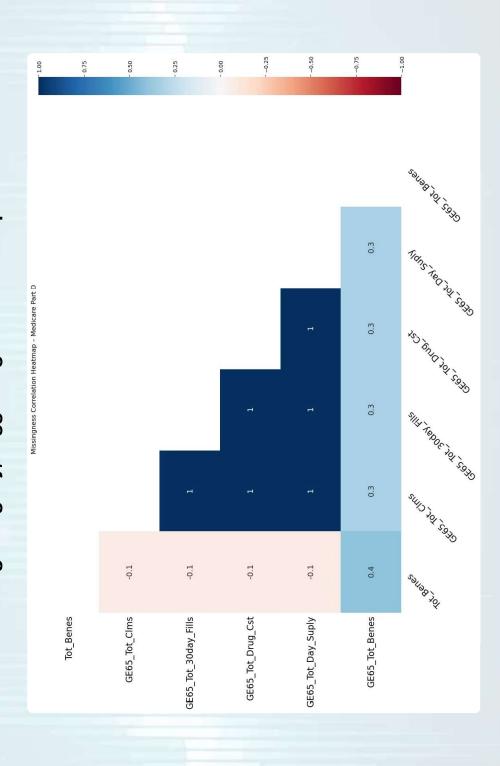


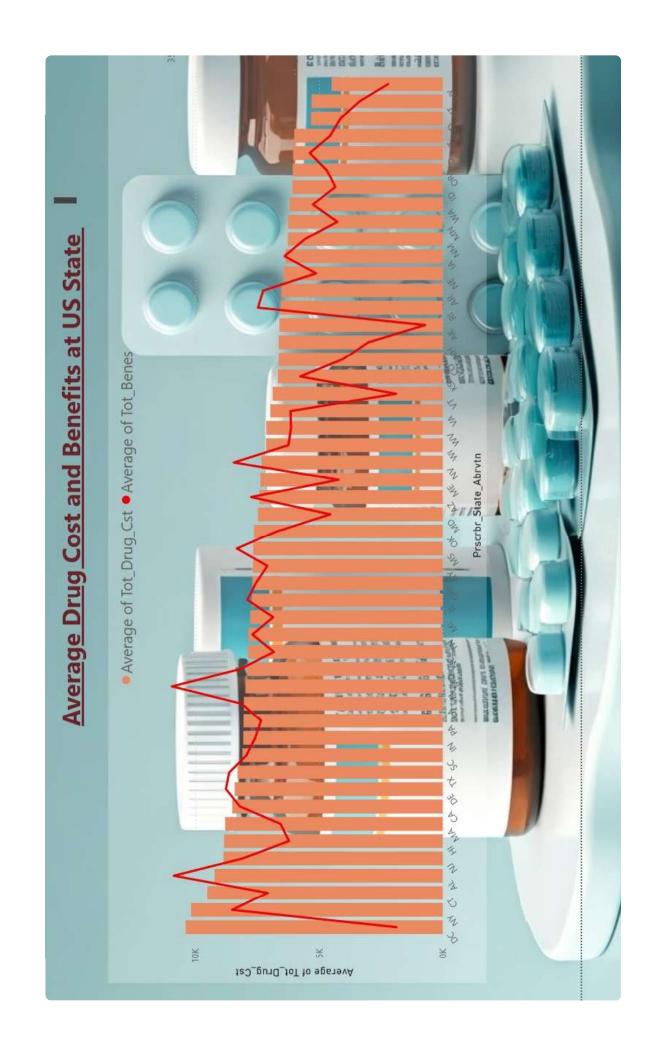
Several trends emerged with some expected, others more revealing.

The GE65-titled columns show a strong correlation with the four key variables I initially planned to focus on.
Across those four, the relationships are consistently strong, including with the Benefits column, which demonstrates notable alignment.

Heatmap of Medicare Part D Variables Visualizing Data Gaps:

GE65 variables show perfect alignment, and potentially redundant or policy-driven. GE65 Benefits diverges slightly, suggesting a distinct cost pattern.





Quick Look of "Claims vs. Benefits" and Top Drugs



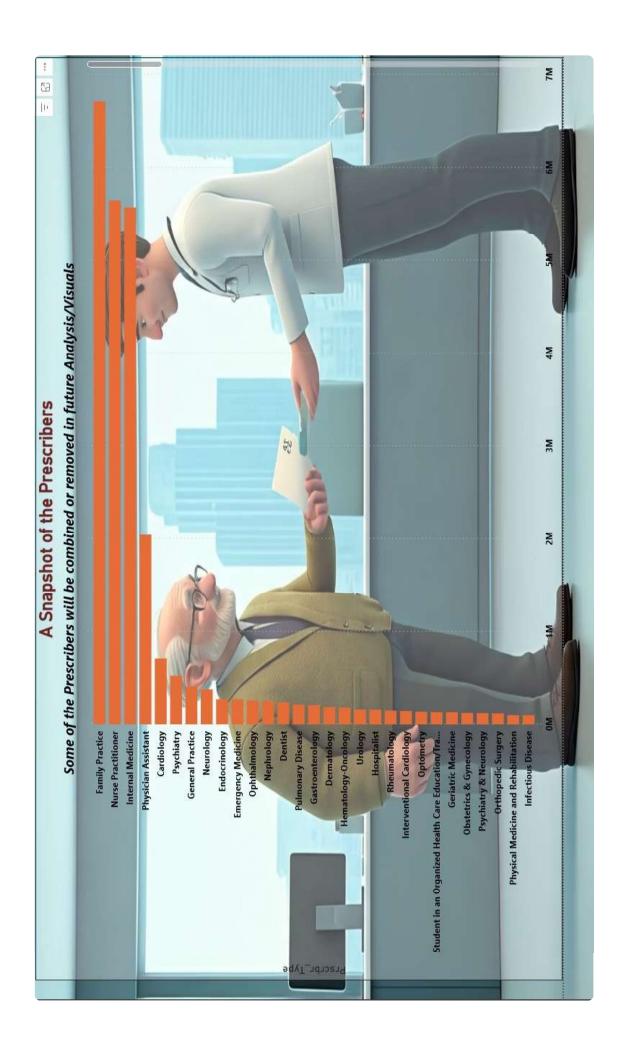
Initial findings show a strong, direct correlation between total benefits and total cost.

To explore this further, I filtered out the top 10 drugs, see chart on top right right. After rerunning the correlation analysis, the relationship becomes more nuanced and slightly less linear. However, a meaningful correlation still persists, suggesting consistent cost dynamics even beyond high-volume prescriptions.

Tot_Clms

Tot_Benes





MORE TO COME.....

