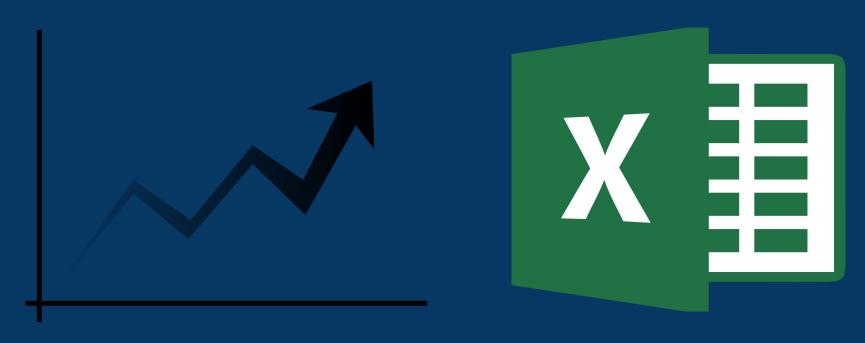
Background

TRADER JOE'S

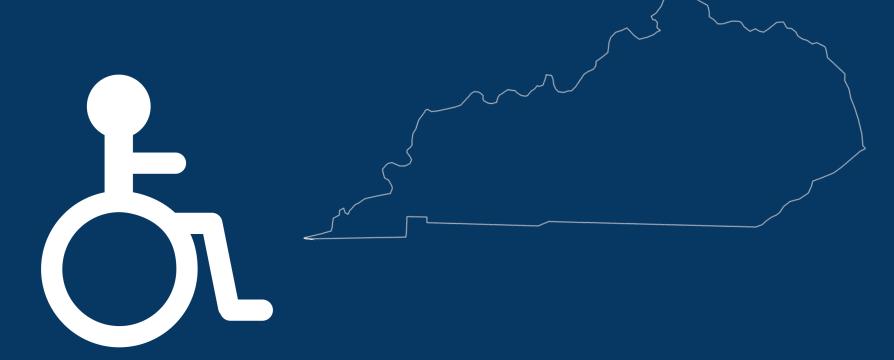


Paul Priest - 2022
Code Louisville

Discovering Python



Kentucky-bound



US Government Drug Spending:



A Visual Exploration

2012-2020

Medicare Part D

Adults 65 years or older



Medicaid

Available to low-income households

> 50 % under age 21



Questions

• Spending differences

• Trends over time

Cost distribution





Tools:

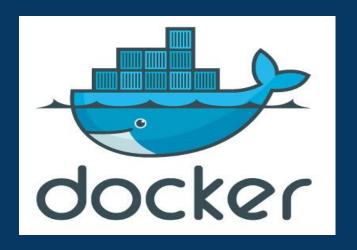


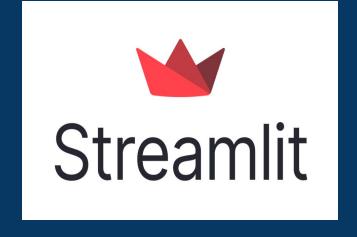
Jupyter Spank

>>print("Hello world!")

output: Hello World!

Tools:





Cleaning the data

• Excel to CSV

Wide to Long



Removing duplicated/missing values

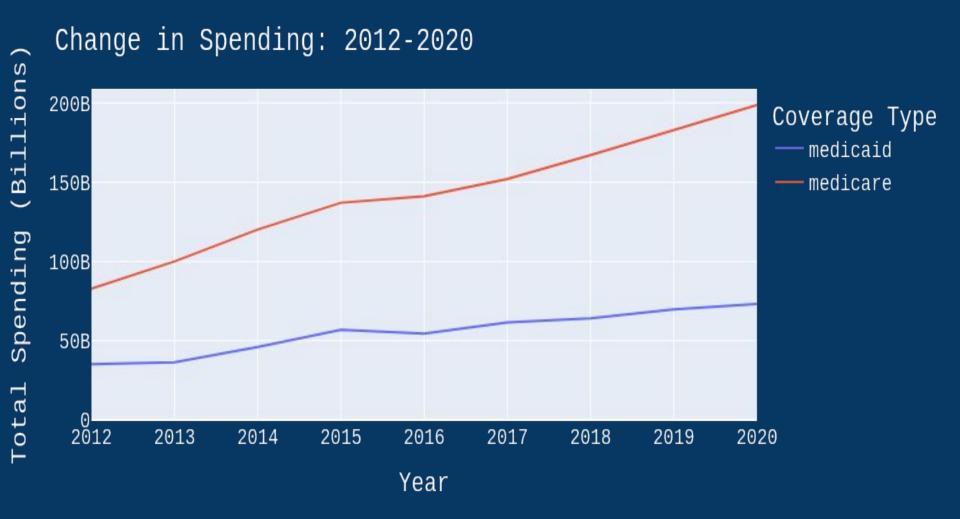
Medicaid	51 million	70 million	37 %
Recipients			

2020

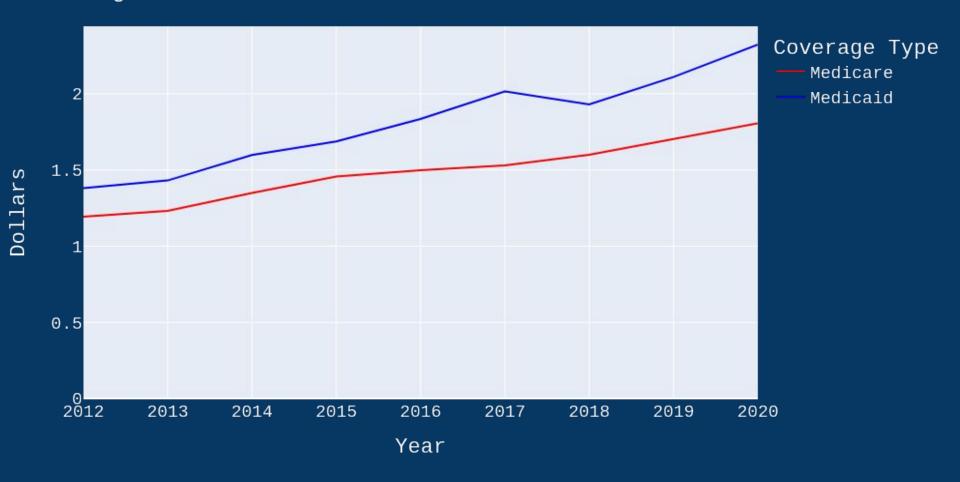
% Increase

2012

- https://www.federalregister.gov/documents/2012/03/23/2012-6560/medicaid-program-eligiblity-changes-under-the-affordable-care-act-of-2010
- https://www.medicaid.gov/medicaid/quality-of-care/downloads/beneficiary-ataglance-2021.pdf
- https://www.kff.org/medicare/state-indicator/total-medicare-beneficiaries/?currentTimeframe=0&sortModel=%7B%22coIId%22:%22Location%22,%22sort%22:%22asc%22%7D https://www.cms.gov/newsroom/press-releases/national-health-spending-2020-increases-due-impact-covid-19-pandemic#:~:text=Medicare%20spending%20totaled%20%24829.5%20billion.growth%20of
- %202.1%25%20in%202019.
- https://data.cms.gov/summary-statistics-on-use-and-payments/medicare-medicaid-spending-by-drug/medicaid-spending-by-drug



Change in Mean Dose Cost: 2012-2020



Histogram of Log Spending by Drug

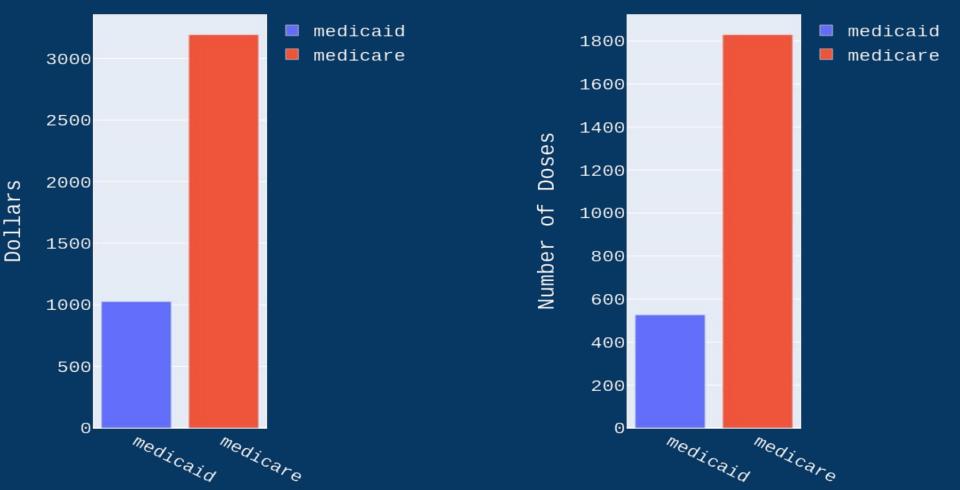


Change in Total Annual Doses: 2012-2020



Spending per Patient 2020

Doses per Patient 2020



Medicare

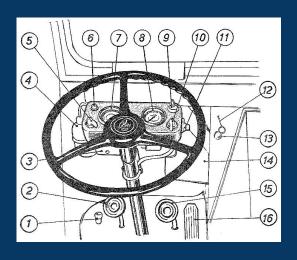
Medicaid

```
Tiblood sugar
control control
high blood to bronchitis &
```

Challenges

• Dashboard/Visualization

Data cleaning



Reproducibility

Personal Lessons

Containerization with Docker



• Feature Engineering



• Functional vs. object oriented

Future Analysis

Census Data

• State Medicaid Data



Drug Manufacturers

Thank you!



- Staff
 - Brian Luerman, Emily Sullivan, Jenny Terry, Don Hansen
- Mentors
 - Jenna Williams, Jeff Dillon, Steve Watkins
- Students:
 - Duane, Jimmy, Vicky