

DSI Clinic: Becker Friedman Institute

Project Goals

This project extends the recent BFI working paper "The Rise of Healthcare Jobs" by developing an interactive Data Studio dashboard that enables users to explore healthcare employment across 130 Metropolitan Statistical Areas from 1980–2022. Built as a web-based interactive visualization platform (using Streamlit), the dashboard will provide journalists, researchers, and policymakers with the ability to filter by region, compare metropolitan trends, and analyze correlations between healthcare employment and broader socioeconomic shifts.

General Meeting Agenda

- Stand-up: Provide a concise update on your assigned task and raising any outstanding issues, blockers, or problems (2 minutes per student)
- Discussion: Focus on solving or determining a path to solution for the raised issues, blockers, and problems
- Planning: Setting out and assigning tasks for the following week

Weekly GitHub Repository Workflow

- Receive your tasks in the mentor meeting
- Pull repository to have the most up-to-date version
- Create a new branch for your week tasks
- Develop code that fulfills your task
- Commit your code to your task branch
- Create a pull request (PR) for your branch by (or on) the night before the mentor meeting

Week 6: Nov 5

Notes

- **Participants:**
Jonatas Marques, Shumaila Abbasi, Cynthia Zeng, Jack Luo, Nandi Xu, Ryan Lee, Abigail Hiller
- **Updates**
 - Nandi
 - Goal from last week: Make UI better (faster, better colors)
 - Color scheme = orange-red
 - Titles of dropdown are descriptive
 - Now uses less detailed shapefile (for speed)
 - Added regression-scatterplot feature to analyze relationship between two variables of choice
 - Ryan
 - Added descriptions and captions for charts
 - Added querying for graphs (users can find specific data)
 - Can download graph data as csv
 - Wants to add more descriptions on how to use search features
 - Run accessibility check
 - Interface follows users' settings (light mode vs dark mode)
 - Supplementary graphs have dark mode hard coded
 - Shumaila
 - Merged her supplementary datasets with bfi data
 - Suggests code saves data as a csv/excel
 - Clinic suggests against having code in repo, code should directly get data from source
 - Can make clean data available elsewhere ie Box link
 - Reviewed and revised charts to see which were not needed/helpful
 - Added regression lines
 - Still working on code to clean data (not pushed yet)
 - Cynthia
 - Merged her supplementary datasets with bfi data (pushed to github)
 - Supplementary datasets have unique APIs (instead of direct webscraping)
 - Working on learning those APIs (new to using APIs)

Tasks

- 4 weeks remaining
 - Start closing scope of end-of-quarter deliverable
- Nandi and Ryan should work on integrating
 - Want to try different page formats
 - Will explore options
- Cynthia and Shumaila
 - Work on integrating both codes to have single code that does all the work of merging datasets