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CS 448B

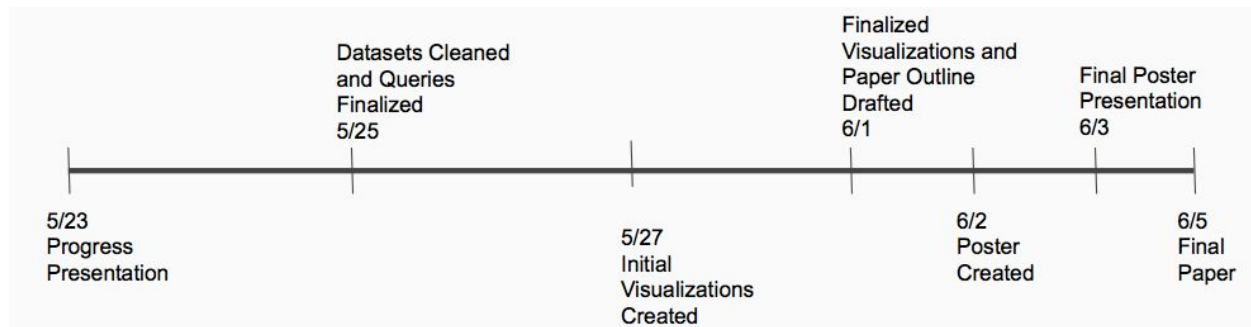# CS 448B Final Progress Report

Literature Review

Many sites and tools exist that try to provide insights from salary data. One such approach taken by job sites like Glassdoor, is to aggregate salary info about specific occupations, allowing the user to query based on city and position. Glassdoor also provides information about different companies with the position, as well as what those companies tend to pay. However, Glassdoor's info does not provide any insight into patterns in salary data, such as historical trends. Our work will aim to provide the same information offered by Glassdoor, but will further supplement it with visualizations of the same data, as opposed to Glassdoor's text-based listings, as well as further data about historical trends.

Other tools like PayScale focus exclusively on visualization of job data. For example, PayScale has visualizations for the most common job by state, degrees that lead to the highest pay, and many more. However, PayScale's visualizations, while interactive, are the same for every user. We intend to visualize only relevant data to our user, based on the user's specific location and occupation. Our tool will include the more general information found on PayScale, but only as a way to provide context for more specific information for our user.

There are not as many visualizations for cost/standard of living. CityLab created an interactive map to show the gap between minimum wage and cost of living by county, which is similar to what we aim to do. However, we intend to provide a more customizable visualization, incorporating tax costs and allowing different yearly salaries in showing expendable income by county.

A variety of different sources provide analysis of salary and job data. Our tool will aggregate different methods that already exist in separate tools into a single tool, as well as provide some novel analysis of salary versus standard of living, location.

Project Plan

Datasets Cleaned
and Queries
Finalized
5/25

Finalized
Visualizations and
Paper Outline
Drafted
6/1

Final Poster
Presentation
6/3

5/23
Progress
Presentation

5/27
Initial
Visualizations
Created

6/2
Poster
Created

6/5
Final
Paper

5/25
- Serena - Finalize all datasets to use
- All - Finalize components in visualization and attribute queries

5/27
- Haiyin & Lorena - Create initial visualization
  - Using D3 and Github Pages

5/27 - 6/1
- Haiyin & Lorena - Revise Visualization

6/1
- Haiyin & Lorena - Complete finalized visualization
- Serena - Complete outline of final paper based on created visualization

6/2
- All - Create final poster visualization information

6/3
- All - Give final poster presentation

6/5
- Serena - Finalize paper of visualization
  - Haiyin & Lorena - Review paper for submission