

Doctor Recommender Wireframe

By Naveed Nadjmabadi

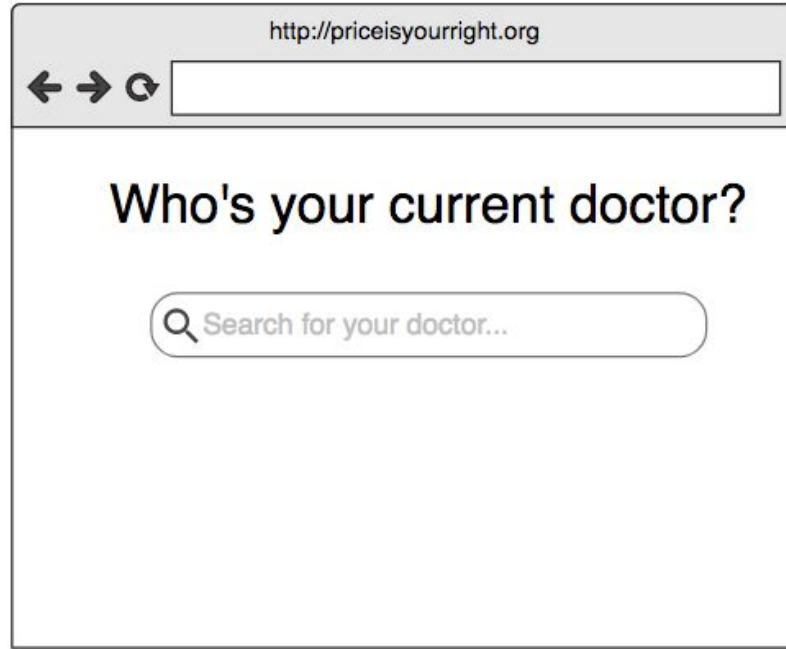
Data Analysis for Project

- <https://github.com/naveedn/priceisyourrightchallenge/blob/master/price-eda.ipynb>
- The above document shows the data analysis performed
- In addition, I built a prototype for project, created KNN (K Nearest Neighbors, think of Amazon's "similar products" recommender algorithm) ML model to find doctors who have done the most similar services as the currently selected one.
- By inputting who their current provider is, my app would tell you who is most similar to your current provider based on the services each doctor bills for.
- It also tells you how experienced your doctor is relative to their peers by determining the frequency of services performed (How often do they bill for procedure 1 vs procedure 2)
- Users can use this + costEstimates to determine what they are looking for

Wireframe Homepage

Simple search, like google. No clutter, just get to the point.

Would use auto-complete in search to provide suggestions for doctors (using providerName_Anchored field) for this



Once the user types in their provider (doctor)...

They are led to their doctor's profile page. You can search for a new one and go to a different page from search bar at top.

The blurb on the left-hand side is text designed to be read from a screen-reader for visually-impaired users. (Also useful for Search Engine Optimization)

The mockup tool I used was very limited, but ideally I would have a table of 5 most similar doctors on the same page. Here, a link is provided to a page where they can view that info.

http://priceisyourright.org

Dr. Susan J. Phipps M.Ed., LMHC

Doctor Profile

Dr. Susan J. Phipps is known to do hand and arm x-rays, as well as foot and leg x-rays. Among doctors in Massachusetts, she performs the arm x-ray procedure 45% more than her most-similar peers.

Her prices are within 10% of her 5 most similar peers, and she charges about 15% less than the average for the hand and arm x-ray procedures.

Breakdown of Services Provided:

Arm X-Ray

Experience: 5 hearts (all black)

Price: 5 hearts (4 black, 1 grey)

Leg X-Ray

Experience: 5 hearts (3 black, 2 grey)

Price: 5 hearts (3 black, 2 grey)

[Click here to see the 5 most similar doctors to Dr. Susan J. Phipps >>>>](#)

The radar chart shows what the doctor's expertise is in a visual fashion

Below the radar chart, each ServiceCode (CPT) the doctor bills for is ranked based on experience (how often do they do that service compared to others) and price (using CostEstimates)

If the user clicks the link to see most similar doctors..

Again, the mockup / wireframe tool I used was very basic (I couldn't add columns to the table, nor resize the size of the webpage), but this table would allow you to view each doctor most similar to your current one

If you click profile, you would get a page similar to the previous slide so you can get an understanding of what the doctor is known for.

If you click compare (which would be a checkbox), you could select each of the doctors you are most interested in, and clicking the "Compare" Button, which would take you to the next page.

Typing in the search bar and searching will take you back to the new doctors profile page

http://priceisyoumight.org

← → ↻

Q Dr. Susan J. Phipps M.Ed., LMHC

Top 5 Doctors Similar to Yours:

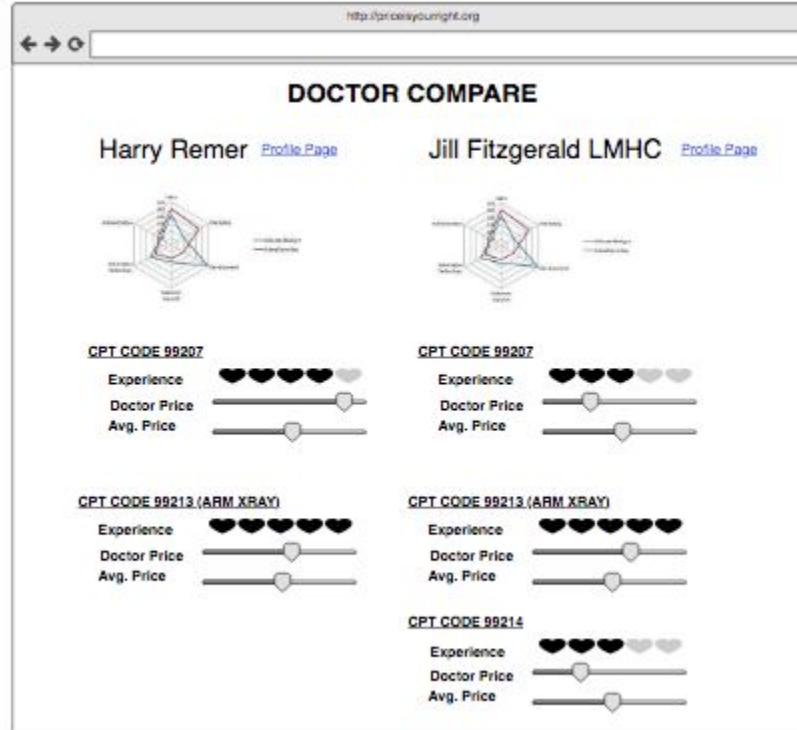
Rank by Similarity	Name	Profile / Compare
1	Christine M Senechal LICSW	profile compare
2	Harry Remer	profile compare
3	Life Guidance	profile compare
4	Jill Fitzgerald LMHC	profile compare
5	2 Thumbs Up Hand Therapy LLC	profile compare

Compare

Once the user clicks the “compare” button ..

Each doctor is laid out in a columnar fashion

The radar charts are presented side by side so you can see what areas they overlap, but also where each doctor is “pointier” (i.e. more experienced)



The Profile Page Link would bring you back to the second page in wireframe, allowing you deeper dive into an individual provider

In addition to the experience (NumberServices) + Doctor Price (CostEstimate for each CPT the doctor bills for),

we compare that doctors CostEstimate with all the other ones for that CPT, giving the Avg. Price

Sitemap

