Managing Skilled Nursing Facilities.

Skilled Nursing Facilities (SNF) in the United States provide less caretaking services like rehabilitation

services (example physical therapy). Patients, usually aged, prefer to choose skilled nursing facility post

discharge from the hospital. In the market of rising healthcare costs and regulatory pressure pushing

provider groups to change from pay-for-service to pay-for-value, provider groups are wanting to choose   
  
a narrow network (or do business with) of skilled nursing facilities which are low cost and high quality.

Your Task

Your task is to create a metric or algorithm to easily identify skilled nursing facility within a state or a zip

code which have better value (i.e. low cost and high quality). You can use SNF Compare data provided by

the Center for Medicare and Medicaid Studies (CMS) for this analysis.

**Data: https://data.medicare.gov/data/nursing-home-compare**

You should also give an easy reporting tool to not just pick the best nursing facilities from a list within a

state, city, or zip code, **but also create a 360-degree visual profile of a Skilled Nursing Facility (SNF).**

While analyzing this data if there are any other insights you come across or want to highlight, which will

help decision makers in understanding and reducing costs.

As this data is public, you can use Tableau Public or any other Visualization as a tool for this analysis and

visual representation. **https://public.tableau.com/s/**

Deliverable

● Slides/Document explaining algorithm **defining a value score** for a skilled nursing facility

● Slides/Document detailing your thoughts of how you chose a visual representation in Tableau

and why

● Tableau public dashboard URL

Thank you for your interest in the Data Scientist position. As Data Scientist, a key part of your role will be mining data for insights to relay to the client, helping the client understand what the data means. The purpose of this activity is to show us how you would go about analyzing a data set to tell a story in presentation form, as we often do for our clients.

**Please create a deck with a maximum of 3-5 slides** (no need for a title slide) and email the deck over when you're done. If you would like to share your work to show us how you went about your analysis feel free to do so, however, this part is completely optional and we are primarily looking at the deck.

**We will be assessing your deliverable on**

* **Flow of Narrative/Point of View:***State a hypothesis and confirm or refute it. One question you might think about answering is how the individual variables affect the overall score and what levers should a Nursing facility pull to become “Efficient”?*
* **Depth of Data Analysis:***Instead of just providing us with descriptive analysis, think about showing off more advanced types of analysis like correlation, regression, etc.!*
* **PowerPoint Skill:***This is not about making the most beautiful slides - we want to see slides that are easy to follow with clean, clear figures and data visualizations.*

Rather than focusing on analyzing all the data we’ve provided to you, we would like to see you come up with a clear message or POV.

The slides should be adequate as “stand alone” client material, After the team’s review, we will contact you about potential next steps.

Please return the assignment in a week. Feel free to reach out if you have any questions in the meantime.

Thank you,

Symphony Analytics Team

For any questions on the assignment, please email:

vamsi.sadineni@symphonyhealth.com