horizontal line

**Your Company**

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Project Portfolio

**14th July 2022**

# SHOWCASING SKILLS

This project portfolio's central ambition is to showcase all of my skills in web and mobile design, data analysis, and data science. My portfolio will show my ability to understand programming languages Python and SQL; and my ability to interpret statistical data.

# GOALS

1. Build a mobile and web-based application with python
2. Visually display the data of a clinical study from statistics class example
3. Present data with jargon relating to statistics.

# SPECIFICATIONS

This Project Portfolio consists of data visualization for two separate studies. The first study is Super Market Sales Data, and the second is Medical Market Data.

# MILESTONES

## Developing Utilization of PANDAS

Opposite to Excel, using Pandas to:

1. Expanding the size of rows
2. Transforming complex data with ease (changing dimensions of an array)
3. Automating tasks

I can use data frames similar to excel worksheets. I use the pivot method in code to reshape and aggregate data frames.

## Data Visualization Execution

I can demonstrate how to extract meaningful data for different purposes with these examples.

For instance, I use the Medical Market Data to estimate the market share of one physician relative to another. As long as the medicare payer mix is relatively consistent between the providers in a particular area, then it can give a good approximation. Because I can sort from high to low on the number of beneficiaries that each physician treats and get a ranking of who has the highest and lowest volume of physicians. The other thing I can do is if I know the medicare payer mix, and if it's reasonably consistent between providers in your community, then I can do what I call grossing it up to figure out the total number of patients is.

For example, if you know that medicare is 50 off your pair mix, if you divide that number of the patients by 0.5 then you get your total number of patients.

So again, assuming that this is consistent you know in your market.

https://data.cms.gov/data-api/v1/dataset/673030ae-ceed-4561-8fca-b1275395a86a/data

