***Executive Summary***

***Chronic Disease in U.S***

 A chronic illness ranks among the most prevalent and costly medical conditions in the United States. More than 40% of the population suffers from one chronic disease or another, leading to hospitalization and ultimately impacting quality of life. Chronic disease is the leading cause of mortality and disability.

***Motivation***

Chronic disease is one of the top contributors to public health issues. Data analytics  
presents an invaluable opportunity to drive deeper into understanding its perplexing subject.  
My motivation is leveraging data analytics to prevent chronic disease or at least reduce the rate, ultimately striving towards a future where chronic disease can be controllable.

Having an education in Nursing, I always wonder why most people suffer with one or other chronic disease.

**Minimum Viable Product (MVP)**

I will be creating a PowerPoint presentation that includes introductions, summaries, visualizations, and conclusions. Also I will be using Tableau to create dashboards.

***Data Question***

* What was the prevalence of diagnosed diabetes among adults aged 18 years and older between 2019 and 2022?
* What is the average hospitalization rate for chronic obstructive pulmonary disease across all diagnoses over the past five years?
* What is the relationship between the prevalence of kidney disease and diabetes?
* What is the correlation between chronic diseases and obesity?
* How do behavioral habits vary between genders in relation to obesity?

***Schedule***

1. Get the Data (04/14/2024)
2. Clean & Explore the Data (04/16/2024)
3. Create Presentation of your Analysis (04/18/2024)

* Should be a presentation, but could include a Jupyter Notebook or dashboard in Excel, Tableau, or PowerBI

1. Internal demos (04/19/2024 )
2. Demo Day!! (04/26/2024)

***Data Sources***

* <https://catalog.data.gov/dataset/?q=chronic+disease&sort=views_recent+desc&ext_location=&ext_bbox=&ext_prev_extent=>
* <https://data.cms.gov/search?keywords=chronic%20disease&sort=Relevancy>
* <https://data.world/us-hhs-gov/8e0ede43-eaa4-4a93-9f30-fb36b8245685>

***Known Issues and Challenges***

Data is presented in columnar format however data value are horizontal/rows wise, so it is going to lots of data moving and formatting to get most out of these datasets.