**Team Eagle - Project 2**

**Project Title: Google Health Search Trends by US Metropolitan Area, 2005 –2017**

**Project Goal**

Our project topic will be Google Health Search Trends by US Metropolitan Area, 2005 – 2017. Google Trends data allows us to see what people are searching for at a very local level. The goal of this project is to track, and visualize the top searches for common health issues in the United States, from Cancer to Diabetes. A comparison page will be included were you can compare them with the actual location of occurrences for those same health conditions to understand how search data reflects life for millions of Americans.

**Research Question**

How does google search interest for top health issues change over time in US metropolitan area?

**Data Sources**

* + **Kaggle**: Health searches by US Metropolitan Area, 2005-2017
    - <https://www.kaggle.com/GoogleNewsLab/health-searches-us-county>
  + **CDC Data:** 10 leading causes of death per 100,000 population from 2005-2017
    - <https://www.cdc.gov/nchs/fastats/deaths.htm>

**Data cleaning**

* Python Jupyter Notebook

**The Project Includes:**

* Python Flask–powered RESTful API
* HTML/CSS, JavaScript, D3, Plotly
* SQL database (PostgreSQL)

**Possible Visualization & Comparisons**

* + Health Search Volume by Year (Single Line Chart)
  + Health Search Volume by Year and Condition (Multiple Line Chart)
  + Health search Volume by State and Region (Choropleth map)
  + Health Search volume by location, year and condition (Comparison dashboard includes menu, dropdown, gauge, bar chart…….)
  + Correlation Between Health Conditions
  + Correlation Between Health Conditions versus the Actual People dying through the years

**Team members**

* + Adedamola Atekoja (‘Damola)
  + Amanda Qianyue Ma
  + Amos Johnson
  + Ermias Gaga
  + Maria Lorena