**Capstone Ideas**

1. **Climate Model Simulation Crashes Data Set**

***Goal:*** This dataset contains records of simulation crashes encountered during climate model uncertainty quantification (UQ) ensembles. The goal is to use classification to predict simulation outcomes (fail or succeed) from input parameter values, and to use sensitivity analysis and feature selection to determine the causes of simulation crashes.

***Data Source:*** <http://archive.ics.uci.edu/ml/datasets/Climate+Model+Simulation+Crashes>

1. **Mental Health in Tech Survey**

***Goal***: This dataset is from a 2014 survey that measures attitudes towards mental health and frequency of mental health disorders in the tech workplace.

The goal is to determine how the frequency of mental health illness and attitudes towards mental health vary by geographic location. The study will give an insight about the strongest predictors of mental health illness and attitude of co-workers towards a colleague with mental health problems in the workplace.

***Data***: <https://www.kaggle.com/osmi/mental-health-in-tech-survey>

1. What's On The Menu?

***Goal:*** This dataset is split into four files- Menu, MenuPage, MenuItem, and Dish.

The goal is to determine how the median prices of restaurant dishes have changed over the time. In other words, are there any particular types of dishes (eg:alcoholic beverages, seafood, breakfast food) whose price changes have been greater than or less than the average change over time. It will also help in predicting about a dish's price based on its name or description for instance if french or Italian words more likely to predict a more expensive dish or not.

***Data***: https://www.kaggle.com/nypl/whats-on-the-menu