**February 8, 2016**

**Springboard Data Science Course Feb 2016**

**Capstone Project**

**Initial Project Ideas**

**Feedback from Community; Short blurb at high level**

Three potential ideas for Capstone Projects (Titles and Blurbs):

**Project 1. January Effect**

* Description: January is traditionally a time when people take stock of life, make resolutions and assess future prospects. In short, behavior changes. Similarly, investors behave differently in January than they do at other times of the year. Since the 1925 market data has indicated from mid-December and the month of January stocks outperform compared to the rest of the year.
* Goal: To identify that the January Effect is indeed true as well as to see which months would be the best time to buy and which would be the best months to sell.
* Data: The [data](https://www.quandl.com/browse?filterBy=All&idx=database-browser_stock-data_united-states_stock-prices-current-and-historical) that will be used is from the Quandl stock data with a focus on US markets. (need to review with Vishwajit on which data base to use)

**Project 2. Renal Failure and relationship with other diseases.**

* Background: Since the advent of processed foods and sugars there has been a large increase in renal failure. Renal failure is the inability for the body to filter waste products and excess water from the blood.
* Goal: To see what other diseases are contributing factors to renal failure and which age groups are usually affected.
* Data: The [data](http://archive.ics.uci.edu/ml/datasets/Chronic_Kidney_Disease) is taken from the UCI Machine Learning repository.

**Project 3. Mortgage rates**

* Background: Buying a house is usually the biggest purchase anyone will make in their life time.
* Goal: Which months would be the best time to buy a house with respect to US region.
* Data: The [dataset](https://www.quandl.com/data/FMAC?keyword=) will be used from Quandl using a Freddie Mac database