Jesse's Capstone Project Ideas

1.) Wine Quality: https://data.world/food/wine-quality

This dataset includes information about ratings for red wine and white wine based on many features such as citric acid, residual sugar and many more chemical factors. The idea for me is to map a correlation between the many chemical factors to the ratings. This would be useful to determine what would be an award winning wine based on chemistry. After my analysis I should be able to bring much clarity to what would be the best approach to making a new wine to sell.

2.) Tennis Major Tournament Statistics:
https://data.world/uci/tennis-major-tournament-match-statistics

This dataset presents information about each and every individual match in the men's and women's league for all ATP tennis tournaments in the 2013 year. It has information such as who played against who in a match, number or double faults, aces won per player, unforced errors per player, and many more. The idea behind this dataset was to try and find a way to predict the winner of a tennis match while watching the match evolve. Unfortunately, this dataset doesn't contain information about each and every set within a tennis match so it would be only possible to come up with absolute analysis. For example, instead of coming up with information like "If a player makes 'x' amount of unforced errors within the first 'y' amount of sets, they will have a 'z%' chance of failure", only information like the following is possible "There is a correlation with a player committing 'x' amount of unforced errors and 'y%' of failure no matter which set they are on."

3.) Using news to predict stock market movements:
https://www.kaggle.com/c/two-sigma-financial-news

The title says everything that this dataset is about. The datasets presents information about sentiment measures, headline tags in news, price of stocks, volume traded of stocks, and many more items. This challenge would be useful to investigate what is it that stock market traders trade on. What kind of news triggers traders' buying and selling. Ultimately, the biggest question is, can the stock market be predicted?