

Idea 1: Predicting the likelihood that President Donald Trump will be re-elected in the next presidential election of 2020 using Institute for Supply Management (ISM) index, job growth database, change in unemployment database, and Twitter database. This project will focus on analyzing the first three listed database to see how Trump has been doing during his current term to get a sense of his reelection rate. Then we will extract information on Twitter to determine whether there are more people approve what he has been doing than those who don't based on words that were used in their tweets.

Idea 2: Build a restaurant recommender engine for dietary-restricted customers. This project is inspired by two of my very close friends who recently found out that they are allergic to multiple ingredients including gluten, soy, and dairy. They have been using several engine search in hope to find some restaurants that could have dishes for dietary-restricted customers. Unfortunately, my friends ran into a dilemma: any restaurants that they found on these engine searches would only have 1 dish and thus could not satisfy their needs. What I'm proposing to do is to build a restaurant recommender engine with some filters such as:

- + The restaurants need to have dietary-restricted dish(es) for each sub-category on their menu
- + If their menu has less than 2 dietary-restricted dishes then the restaurants should not show up on the result lists of the engine.

Idea 3: Analyze the news dataset in hope to use it as feature to predict the stock movement. This project is inspired by the Kaggle competition:
<https://www.kaggle.com/c/two-sigma-financial-news>