

Here are the 3 initial Capstone project ideas. However after discussion with my mentor, I am most likely going to execute project#1

1) Energy Trade volume prediction between United States, Canada and Mexico

Statistical tables containing crude oil and natural gas export/ import data starting from 2000 till Dec 2014 from the National Energy Board, Statistics Canada, United States' Energy Information Administration will be assessed to predict the export/ import scenario in 2015 (time series modeling) and then will be compared with the 2015 published data to see any anomaly and the reason behind such anomaly and the factors responsible for such anomaly related to global drop in oil prices.

2) San Francisco crime classification (Kaggle data)

This dataset contain incidents derived from SFPD Crime Incident Reporting system. The data range from 1/1/2003 to 5/13/2015. All categories of the crime incident is to be determined from timestamp of the crime incident, detailed description of the crime incident, day of the week, name of the Police Department District, how the crime incident was resolved and the location of each incident.

3) Exploring Earth surface temperature change (Kaggle data)

The data containing land average temperature and its uncertainty, land maximum temperature and its uncertainty, land minimum temperature and its uncertainty, land and ocean average temperature and its uncertainty will be assessed to conclude whether climate change is the biggest threat of our age or it's a myth based on dodgy science.