Project Proposal

Problem Statement:

Nowadays with the convenience of aire plane, people travel internationally for business or vacation. Travel businesses adjust their price based on current demand throughout the whole year. Knowing the demand ahead could help price setting.

Goal:

Time series forecast on international traveling demands by seasons or month.

Dataset:

Monthly international travel counts by US citizens from National Travel & Tourism Office
https://travel.trade.gov/view/m-2015-O-001/index.html (2014 & 2015)
https://travel.trade.gov/view/m-2016-O-001/index.html (2015 & 2016)
https://travel.trade.gov/view/m-2017-O-001/index.html (2016 & 2017)

Approach:

- Data wrangling on three files then combine into one dataset
- Visualize data for story telling and exploration
- Apply inferential statistics and do analysis
- Create the final model with supervised machine learning approach

Potential Challenges:

- Manipulate and engineer the raw data into one desired dataset
- Find the best algorithm to train the model

Deliverables:

Google Doc, PPT