Check-In #1 Topic Selection

Presented by Jack Wang

1

RGR stock price predictor

- **Data Collection:** Yahoo Finance and Twitter
- **MVP:** A time series regression model that predicts the stock price of the next day
- **Stretch goal:** set up a pipeline that emails me the predicted stock price of the next day
- **Observations:** the closing stock price of RGR each day

I will use the historical stock price of RGR from Yahoo Finance and also the data from Twitter to build a time series regression model that predicts the stock price of RGR in the next day so that I can trade the stock based on the model's prediction.

Additional Notes

- I need to research on time series regression model and how to implement NPL to it
- I can use Twitter and news scraper to implement sentiment analysis to my model. I would need to check if there is some good sentiment package out there.

2

Ski Resort Recommender

- **Data Collection:** Ski resort satisfaction survey, ski resort data, and ski resort visitor data
- **MVP:** A recommender system that recommends resorts to skiers/snowboarders.
- **Stretch goal:** set up a website takes in data from users (a survey) and provide user the idea resort
- **Observations:** resort visitor

I will use ski resort visitor survey data to create a recommender system to provide user their ideal ski resort.

Additional Notes

- The difficult part would be data collections, the data are probably not public. I might need to contact the resorts to request the data.
- The alternative proposal is to build a regression model that predicts the visitor counts for next week/month of a specific resort (Mammoth) based on the weather and also twitter NPL.

LA housing price estimator

3

- **Data Collection:** housing price from LA county assessor & information
- **MVP:** An estimator that estimates the market value of properties in LA county
- **Stretch goal:** most import features in terms of increasing properties value
- **Observations:** a sold house in LA county

I will use the housing data obtained from public record to build a model that predicts the market price of properties in LA.

Additional Notes

- Model optimization will be the main goal
- I want to build the model on App so users can enter the address and information of their houses and get the market price
- I will need to be creative and research on feature engineering to get a precise model

Feedback?

Thank you!

Credits

Special thanks to all the people who made and released these awesome resources for free:

- Presentation template by SlidesCarnival
- Photographs by Unsplash