Bad Restaurant Alert

Project Overview

Goal of This Project

- There are so many recommenders for good restaurants but not bad ones.
- There is a demand for people to be aware of bad restaurants and help certain restaurants to improve.

Data Source

- Yelp and other restaurant websites and other websites
- What features we can get from them:

Users:

- Reviews,
- Friends on yelp,
- Yelp elite or not,
- Wishlist,
- Rating distribution,
- Review votes voted by people.

Restaurant:

- Number of reviews,
- Type,
- Hours,
- Location,
- Price level,
- Basic business info (parking)

Method

- Evaluate the yelp users, including users in the elite program vs not elite program
- Evaluate the restaurant based on the users' comments trend in certain period of time and users' wishlist
- Make recommendation based on nearest neighborhood method/support vector machine
- Use cross validation to evaluate results.

Expected Results

- For each user, give them suggestions to not go to certain places
- For restaurant, give why it is not good and what to improve

Reference

https://www.yelp.com/

https://www.kaggle.com/adamschroeder/crime-in-new-york-city?scriptVersionId=1 420702

https://maps.nyc.gov/crime/