



Finding the safest restaurants in LA County

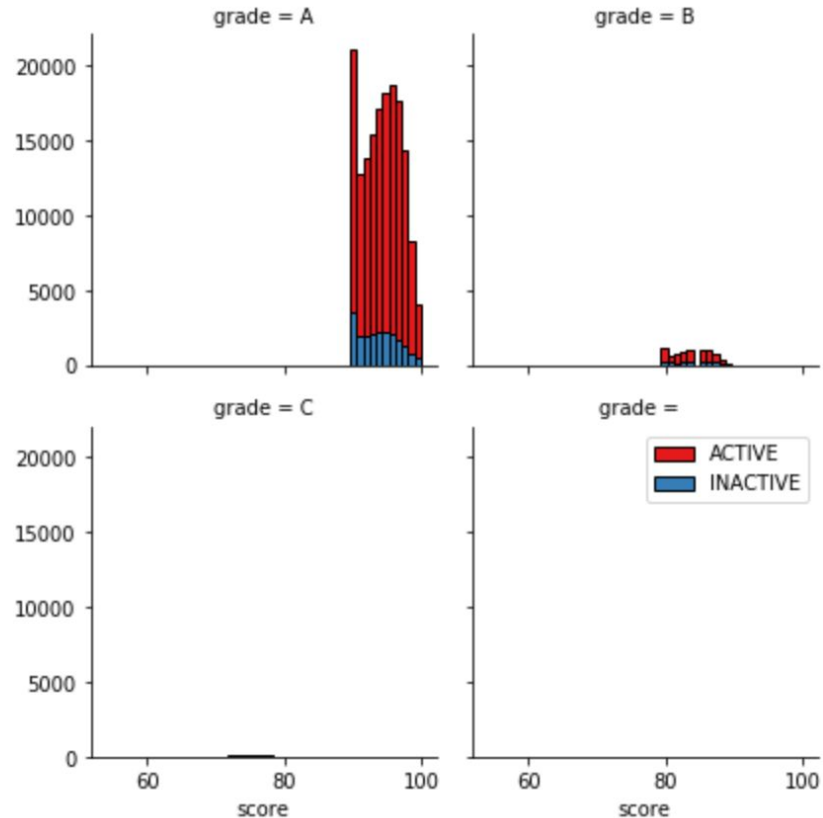
- I am desired to go to graduate school in Los Angeles
- I love the city and would like to explore more safe restaurants in the area
- With this project, people will easily find safe restaurants in LA county
- This project is valuable for both locals and visitors

Data Acquisition and Cleaning

- A dataset of LA County Restaurant inspections and violations on Kaggle that was last updated 2 years ago
<https://www.kaggle.com/meganrisdal/la-county-restaurant-inspections-and-violations>
- In total, 392830 rows and 20 columns in the raw dataset
- Duplicated, description features were dropped
- Cleaned data contains 15 features

The meaning of grades:

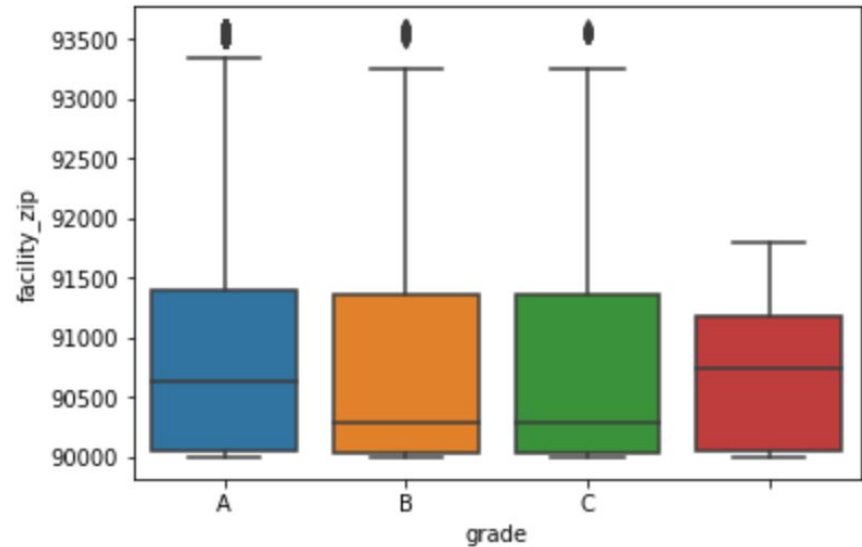
Most restaurants graded with A remain active



Among all the cities, Los Angeles has most restaurants graded as A. The city contains 33.33% of 'A' restaurants in the LA county

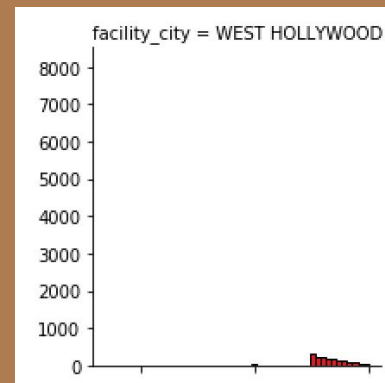
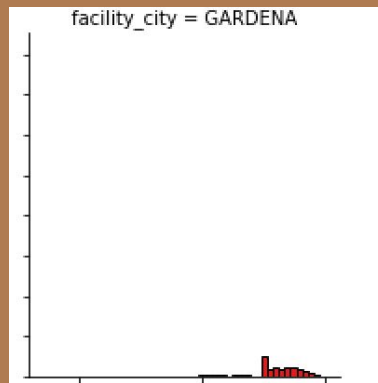
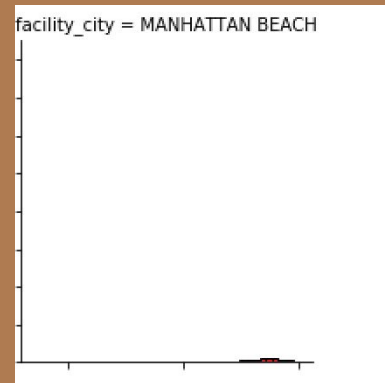
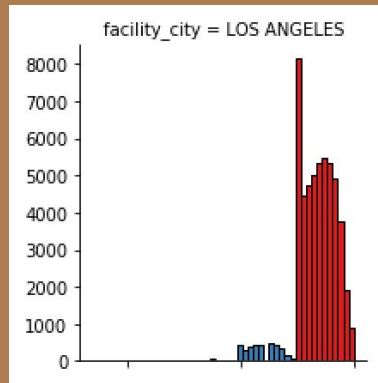
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Out[7]: grade facility_city
        grade facility_city
        LOS ANGELES      0.333333
        CARSON            0.185185
        CERRITOS          0.074074
        WEST COVINA       0.074074
        ALHAMBRA          0.037037
        ARCADIA           0.037037
        GARDENA           0.037037
        MONTEREY PARK     0.037037
        RESEDA            0.037037
        ROWLAND HEIGHTS   0.037037
        SIGNAL HILL       0.037037
        STEVENSON RANCH   0.037037
        WHITTIER          0.037037
        A LOS ANGELES     0.275771
        GLENDALE          0.023713
        TORRANCE          0.021782
        BURBANK           0.019630
        SANTA MONICA      0.019089
        NORTH HOLLYWOOD   0.017329
        VAN NUYS          0.016298
        WHITTIER          0.014659
        POMONA            0.013931
        INGLEWOOD         0.012243
        LANCASTER         0.012193
        DOWNEY            0.011785
        WEST COVINA       0.011272
        NORTHRIDGE        0.011238
        GARDENA           0.011222
        PALMDALE          0.011090
        WOODLAND HILLS    0.009986
```

The relationship
between
restaurant's
location (zip code
and grade



I explored the grades of restaurants in each city.

Among 443 cities, Los Angeles has most high-graded restaurants.



I focus on restaurants
in the city of Los
Angeles.

From the regression,
we can tell restaurants
with lower zip codes
tend to be safer.

