**New York- Restaurant Inspection Score/Grade Prediction**

**Restaurant Inspection Score Data**

Restaurant Inspection process - <https://www1.nyc.gov/site/doh/services/restaurant-grades.page>

[NY OpenData](https://opendata.cityofnewyork.us/) this source provides all the Open Data about NY; Open Data is free public data published by New York City agencies and other partners.

1. [Restaurant Score - Graded By DOHMS](https://data.cityofnewyork.us/Health/DOHMH-New-York-City-Restaurant-Inspection-Results/43nn-pn8j) This dataset contains every sustained or not yet adjudicated violation citation from every full or special program inspection conducted up to three years prior to the most recent inspection for restaurants and college cafeterias in an active status on the RECORD DATE (date of the data pull). When an inspection results in more than one violation, values for associated fields are repeated for each additional violation record. Establishments are uniquely identified by their CAMIS (record ID) number. Keep in mind that thousands of restaurants start business and go out of business every year; only restaurants in an active status are included in the dataset.

Records are also included for each restaurant that has applied for a permit but has not yet been inspected and for inspections resulting in no violations. Establishments with inspection date of 1/1/1900 are new establishments that have not yet received an inspection. Restaurants that received no violations are represented by a single row and coded as having no violations using the ACTION field.

Because this dataset is compiled from several large administrative data systems, it contains some illogical values that could be a result of data entry or transfer errors. Data may also be missing. Our data collection and cleaning process will ignore non relevant and missing data,

1. [NY CITY Locations](https://data.ny.gov/Government-Finance/New-York-State-ZIP-Codes-County-FIPS-Cross-Referen/juva-r6g2) this set of data will provide A listing of NYS counties with accompanying Federal Information Processing System (FIPS) and US Postal Service ZIP codes sourced from the NYS GIS Clearinghouse
2. **Yelp Data**, with yelp API we are collecting all location details, this will help us to plot the data in NY MAP.
3. NY Neighborhood data -<https://geo.nyu.edu/catalog/nyu_2451_34572>
4. NY Demographics Data – <https://en.wikipedia.org/wiki/New_York_City>
5. NY Population Data - <https://en.wikipedia.org/wiki/New_York_City>
6. NY Cuisine Data – https://en.wikipedia.org/wiki/Cuisine\_of\_New\_York\_City