

# Restaurant Inspections

## Goals

**Client Facing:** An app which helps people assess the cleanliness of restaurants via visualizations of the restaurant's inspection history & relevant statistics.

**Business Facing:** A interpretable model which can be used to understand how different factors contribute to the overall inspection grade so restaurant owners can pass inspections the most efficiently.

## Data Source



Information is displayed already in table format which could allow for easy scraping.

**Potential Impact:** Minimize the severity of foodborne outbreaks by informing the customer base of unsafe food practices in restaurants so they can make a better informed decision before eating out.



A food can be contaminated by a pathogen



Two or more people can be infected by consuming the contaminated food



# Dungeons and Dragons

## Potential Data Sources:





### Brainstormed Ideas:

- AI Dungeon Master (diving into LLM territory ?).
- Recommender system for best move/turn depending on what your goal is.
- Dice roll probability analysis (explore how different character stats could affect outcomes so you min-max your build).

- <https://open5e.com>  
A JSON API for the D&D 5e game system
- DnD character sheets from Kaggle
- Dice rolls could be simulated using random library
- <https://github.com/oganm/dnddata>

World of Warcraft has an amazing simulator for your character (Raidbots), but D&D might be too situational.

Run **SimulationCraft** in the cloud to optimize your World of Warcraft character.

 <b>TOP GEAR</b> Find the best gear and talents for your character	 <b>DROPTIMIZER</b> Find your best drops
 <b>QUICK SIM</b> Run a quick sim to get your DPS and detailed stats	 <b>ADVANCED</b> Run (almost) any raw SimulationCraft script



# Hotel Financial Consultant

## Data

- Information from booking websites, frontend and backend.
- Financial data already stored in excel sheets.
- Florence tourism information from Statista.com.

## Goals

- Research what contributes most to the success of a Bed and Breakfast.
- Forecast future business.
- Real world practice on a non-technical audience.