

Data Engineer Take Home Task

Helpshift, Inc.

The Dataset

You are given a CSV file with a bunch of restaurant names and their open hours. The format of the file looks like:

```
"Restaurant Name", "Restaurant Open Hours"
```

Restaurant open hours are represented by a string that looks like:

```
"Mon-Thu, Sun 11:30 am - 9 pm / Fri-Sat 11:30 am - 9:30 pm"
```

There are cases where there are no ranges or repetitions in the open hours. Take a look at the actual data to understand the format.

The Problem

1. Write a function called `get_open_restaurants` which would accept a datetime and would return a list of restaurants that are open at that instant.
2. Analyse the dataset and come up with interesting insights, eg.
 - a. Which restaurants are open the longest?
 - b. When do people of the city go for breakfast, lunch, dinner?
 - c. Which restaurants are open for the shortest duration?
3. Use meaningful visualisation to support your analysis.

Language and Tools

You are free to use any programming language to solve the problem. Feel free to tweak the problem statement (1) as per the semantics of the language.

Deliverables

We expect you to send us

- A README file describing the solution to (1) and build/running instructions
- All the code required to solve the problem (1) and any further analysis
- Your analysis of the dataset
- Visualisations if any