

Hellometer Take Home Assessment

Problem Setting

We have deployed one of our cameras on a fast food location and now have data for about 3 weeks. The data includes time stamps of when a customer entered the store, a Total Time To Service (TTS), and a “Day Part” corresponding breakfast (1), lunch (2), afternoon (3), dinner (4), evening (5), late night (6) . You are tasked with building a web app to be used by the owner/manager of the fast food restaurant so they can better understand their service times.

The data is formatted as a CSV file with the following headers (Only the bold column titles are relevant). Note that “first_seen_utc” is in unix epoch time.

```
customer_number,day_part,first_seen_datetime_local,first_seen_datetime_utc,first_seen_local,first_seen_utc,id,location,model_id,tts
```

This assessment is pretty open ended by design. We are interested in how you approach problems which are similar to those that you will encounter in the role. You are free to use any programming language or framework.

Tasks

The following tasks are meant to get you thinking about how to solve the problem. You are not required to complete any of these tasks but you are welcome to give them a try.

- 1) Plot all of the data in a graph and make it interactive so that the user can select different slices of the data (for example 1 week at a time)
- 2) Create a multiple graphs to gain a better insights into the data and find patterns:
 - a) Number of customers be hour
 - b) Average Time to Service per hour
 - c) Average Time to Service per daypart
 - d) Distribution of time to service.
- 3) Come up with a few insights you saw in the data and write a short report (1 page max)
For example: Outliers, correlations between tts and day part, etc.

When you are done with the assessment, upload the code to GitHub or GitLab and email me the link to alberto@hellometer.io. If you deploy it publicly using heroku or some other service include the link for that as well (Optional). You have until Friday at 5 pm PST but don't spend all week on this. I suggest working on this around 4 hours. If you need more time or any accommodations don't hesitate to reach out to me.

Good Luck!