eIQ Mobility Data Science Challenge: Prediction

March 2019

Task

Your task is to build a prediction model that estimates trip duration given pickup and drop-off locations (latitude and longitude), and pickup time for a ride hailing company. The compressed data file includes two CSV files: `eiq_data.csv` and `eiq_test.csv` with the following fields:

- `id`: unique identifier per trip
- `pickup_datetime`: datetime for pickup
- `pickup_longitude`: longitude of pickup
- `pickup_latitude`: latitude of pickup
- `dropoff_longitude`: longitude of drop-off
- `dropoff_latitude`: latitude of drop-off
- `trip_duration`: trip duration in seconds

Instructions

Please use the `eiq_data.csv` to construct your training and validation sets. Run the model using the inputs in `eiq_test.csv`, and save your prediction results in a file named `candidate_test.csv` with the following headers:

- `id`: unique identifier per trip
- `trip_duration`: trip duration in seconds

Please put the requested output file, a small writeup explaining your approach, and all the *.py or *.ipynb files you created in a compressed folder and send it to emre@eiqmobility.com.

You can use ipython notebooks for coding and explanation (i.e. no need to send a separate writeup if you choose to use ipython notebooks).

You have 24 hours to complete the challenge. Your assignment will be evaluated based on the mean absolute error of the predictions, code clarity, and clear explanation of methodology.

Feel free to reach out to Emre at (412) 478-5384 or emre@eiqmobility.com with questions.