Team ?? ; Divya T, Joyce W, Noreen M and Ed M.

Uber drivers and Uber passengers have a question: What is the best time of the day to be an Uber driver? Also, as a passenger with a flexible arrival time what would be a good time to schedule an Uber trip?

Uber has an upfront pricing model, or "Upfront Fares". This model requires passengers to input their destination address before requesting a car. Then based on the trip duration, Uber will provide an upfront fare price. If you happen to request a car during a surge pricing period, the price you will be quoted will include the extra surge. In other words instead of seeing that your ride will have a 2x on a typical $12 fare, you will simply see a fare quote for $24.

Project Uber goal is to create a model to predict cost of an Uber Trip. The prediction of the actual cost is somewhat challenging so to help determine what is a good or bad time to start the trip, the system will use a multiplier to represent Ubers “Surge pricing”. Project Uber should web app that will predict what would be a good time (date and time) to go active as a Uber driver and would be a good time(date and time) to schedule a Uber car.

The higher the multiplier favors are the driver, the lower the multiplier favors the passenger.

Project Uber will evaluate New York City (NYC) history to learn how to predict the multiplier.

Project Uber (PU) top level requirements:

PU shall produce a multiplier number in a range from 1.0 to 10.0 with resolution in hundredths.

PU shall predict a multiplier from the present date and time up to a week later.

PU shall be accessible from a web browser.