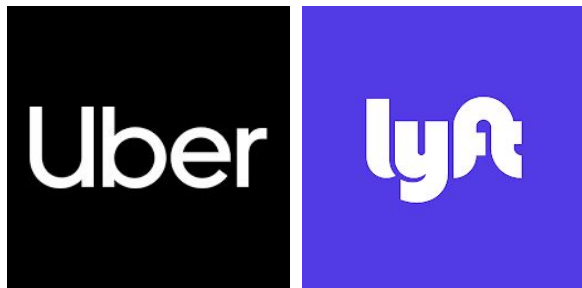


# Capstone: Sprint 2

Garrett Ard

*A non-technical overview of the problem statement, your proposed solution, and an estimate of the potential impact of your solution.*



Uber and Lyft drivers can gain from insights to increase earnings and efficiency.

Predicting conditions that will activate the Surge Multiplier

Leading to reduced traffic when rideshare demand is high

*An overview of the dataset and preprocessing procedures*

- Cab\_Rides dataset - Price, Time\_Stamp, Distance, Surge\_Multiplier
- Weather dataset - Temperature, Rain, Wind

*A few important findings from EDA*

time\_stamp conversion needed for cab\_rides.csv  
dataset

`temp` - highest number of rides completed were  
completed in ~40-41(°F) weather.

`wind` - most rides completed were completed in  
~10mph wind speed

Time Series - Moving Average  
cab\_rides.csv dataset

- `time\_stamp`
- `location`

*Next steps for advanced modeling and productizing work*

### Advanced Modeling

- decide on model
- preprocessing