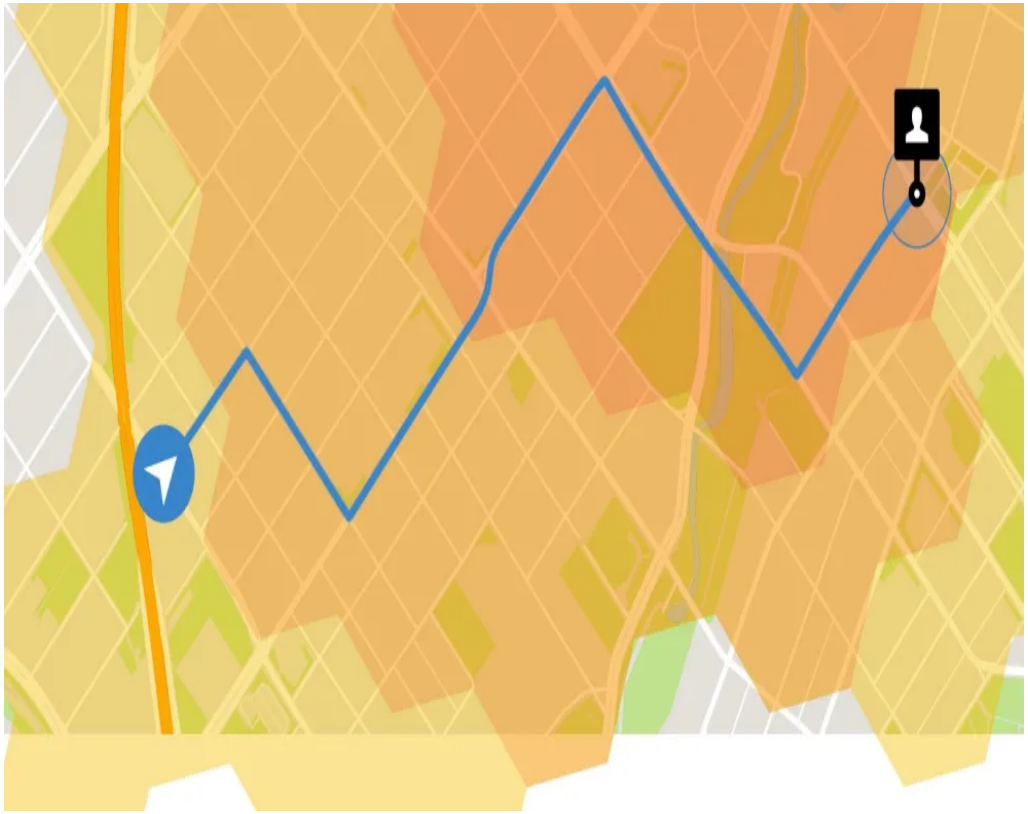
Rideshare Helper

The Next Essential App for Drivers

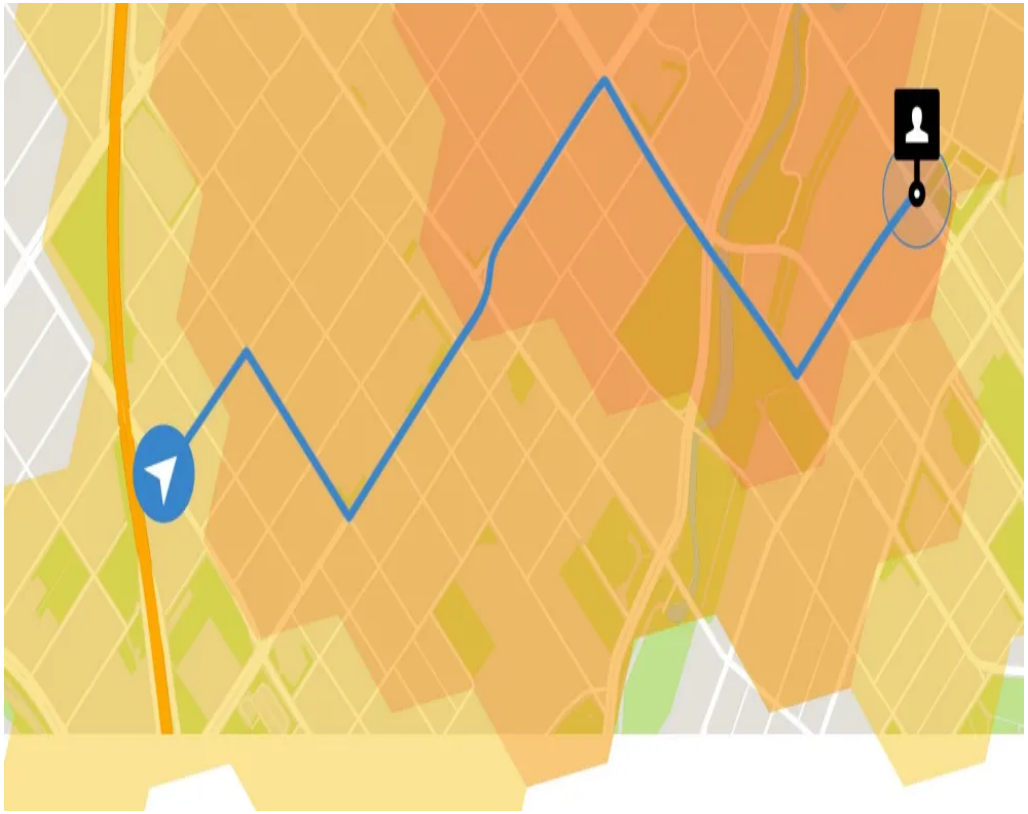
High Demand Pricing

- Uber: Surge
- Lyft: Prime Time



Goal

Predict high demand pricing for drivers

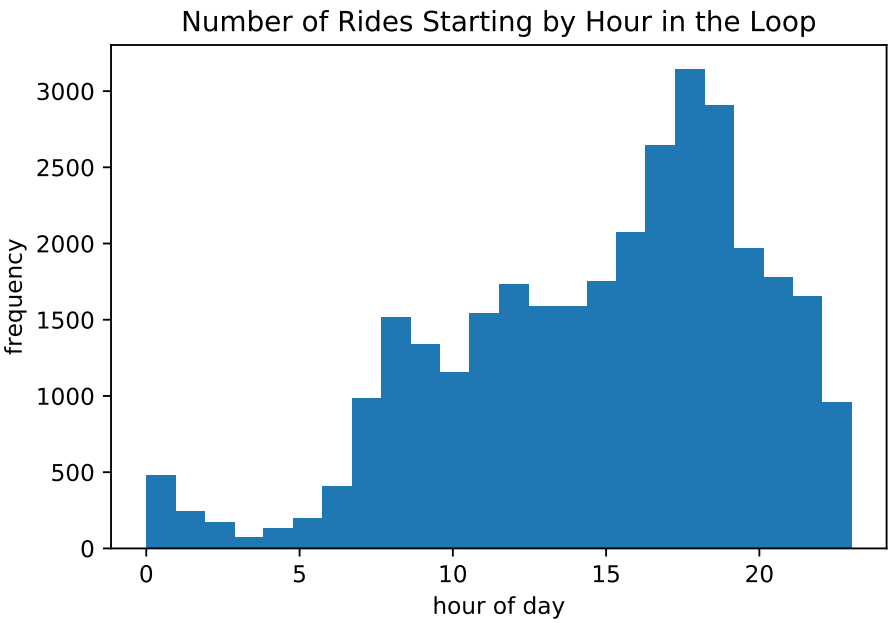


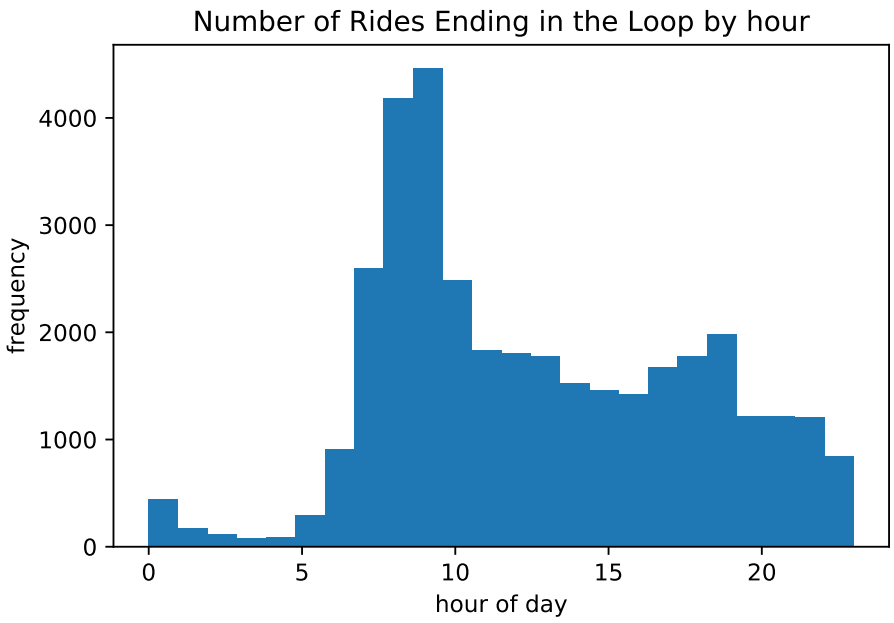
Tools

- **Data**
- City of Chicago
- Rideshare Trips
- Per Capita Income
- Community Areas Map

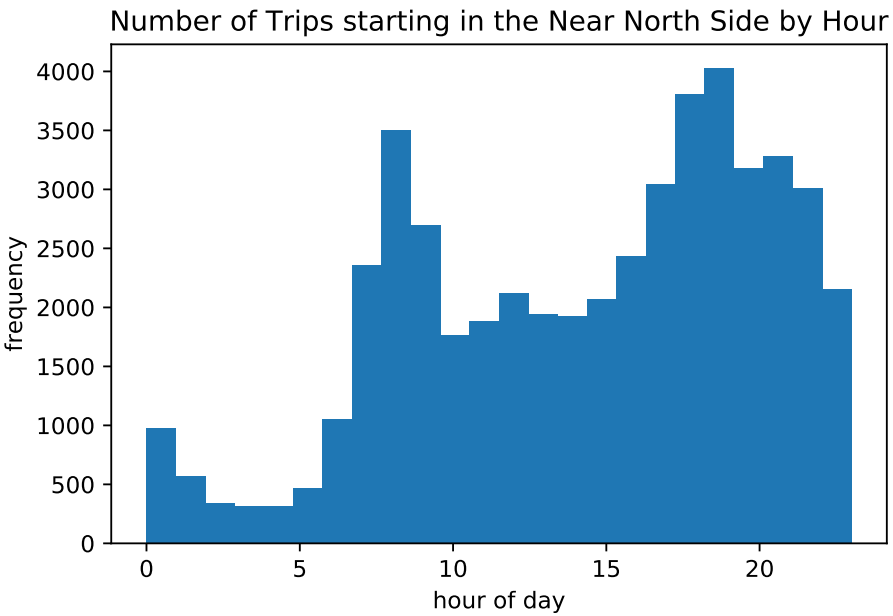
- **Techniques**
- Linear Regression (feature engineering)
- Random Forest Classifier (predictions)

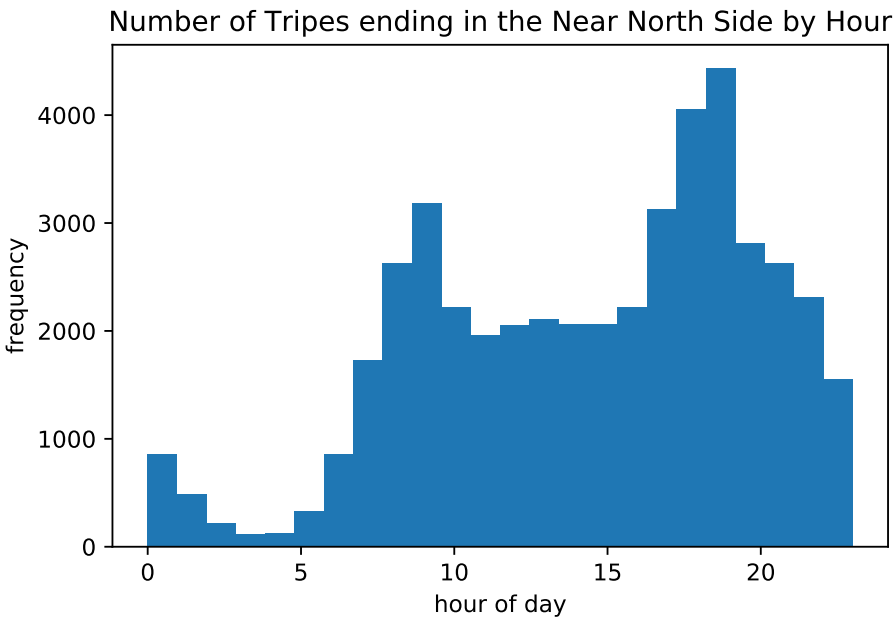
Hourly Patterns: The Loop



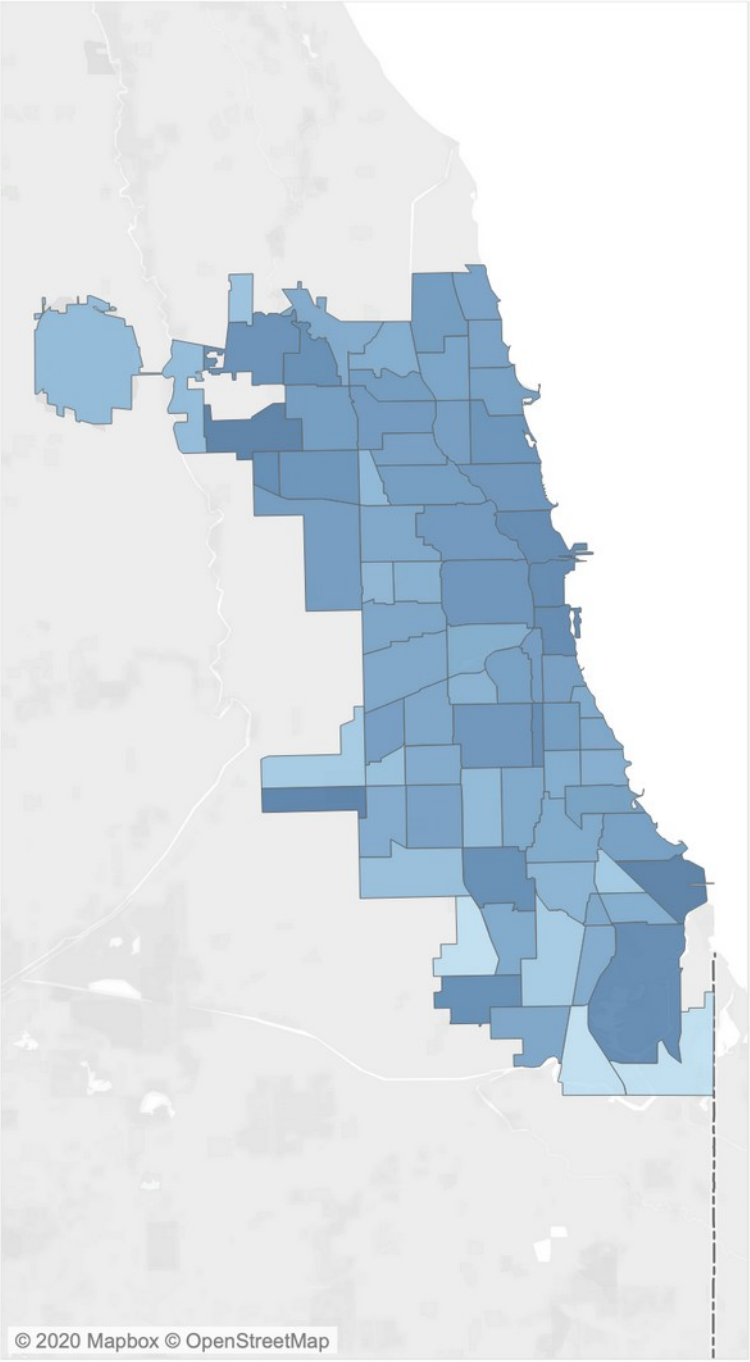


Hourly: Near North Side

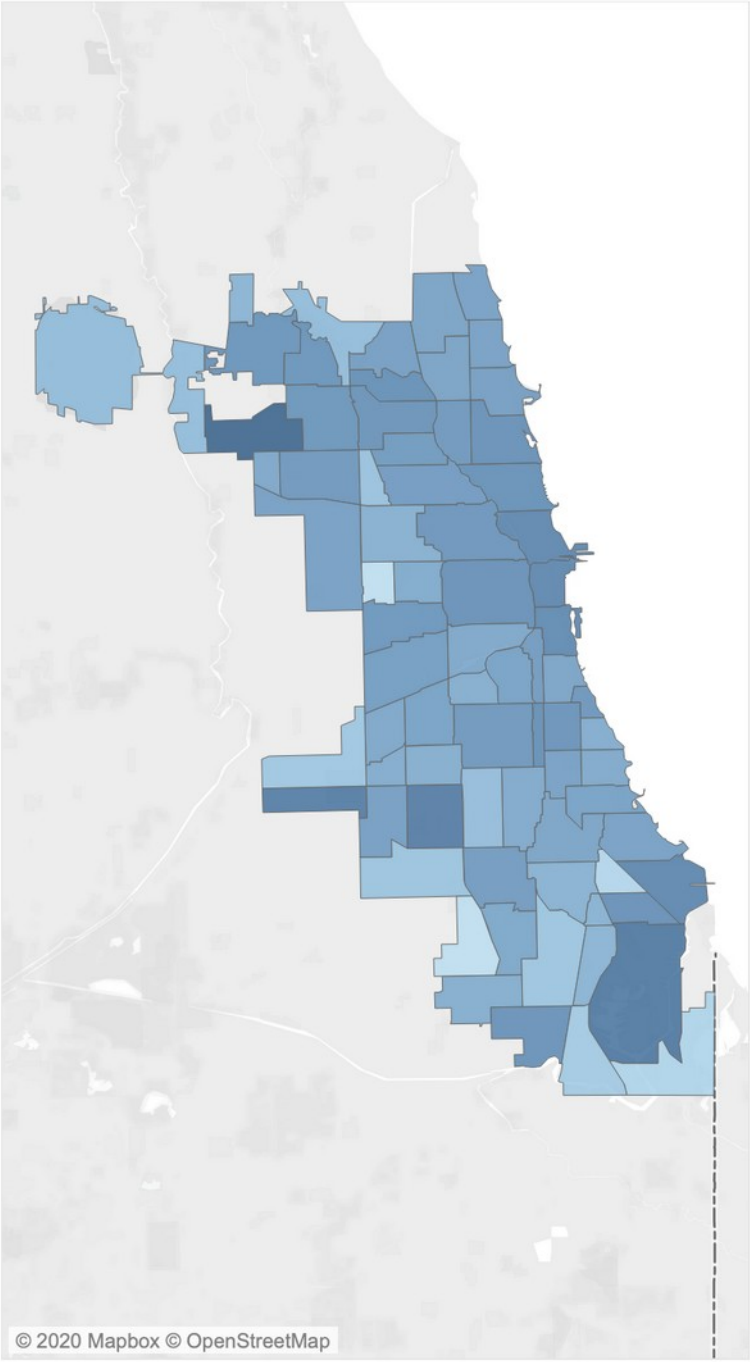




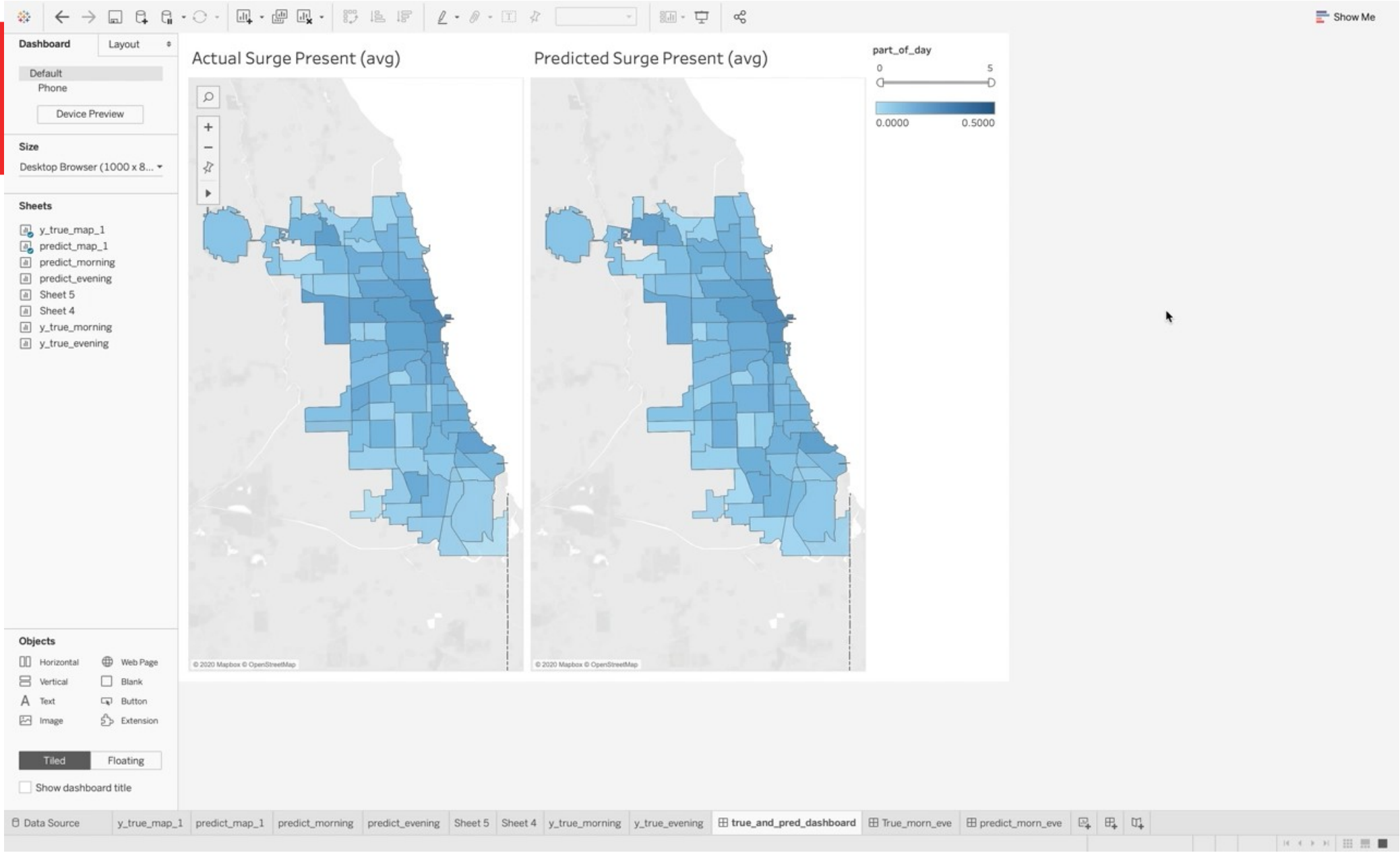
Actual Surge Present (avg)



Predicted Surge Present (avg)



part_of_day
4 to 4


Show Me
Dashboard
Layout
Default
Phone
Device Preview
Size
Desktop Browser (1000 x 8...
Sheets
y_true_map_1
predict_map_1
predict_morning
predict_evening
Sheet 5
Sheet 4
y_true_morning
y_true_evening
Objects
Horizontal
Web Page
Vertical
Blank
Text
Button
Image
Extension
Tiled
Floating
Show dashboard title
Actual Surge Present (avg)
Predicted Surge Present (avg)
part_of_day
0
5
0.0000
0.5000
© 2020 Mapbox © OpenStreetMap
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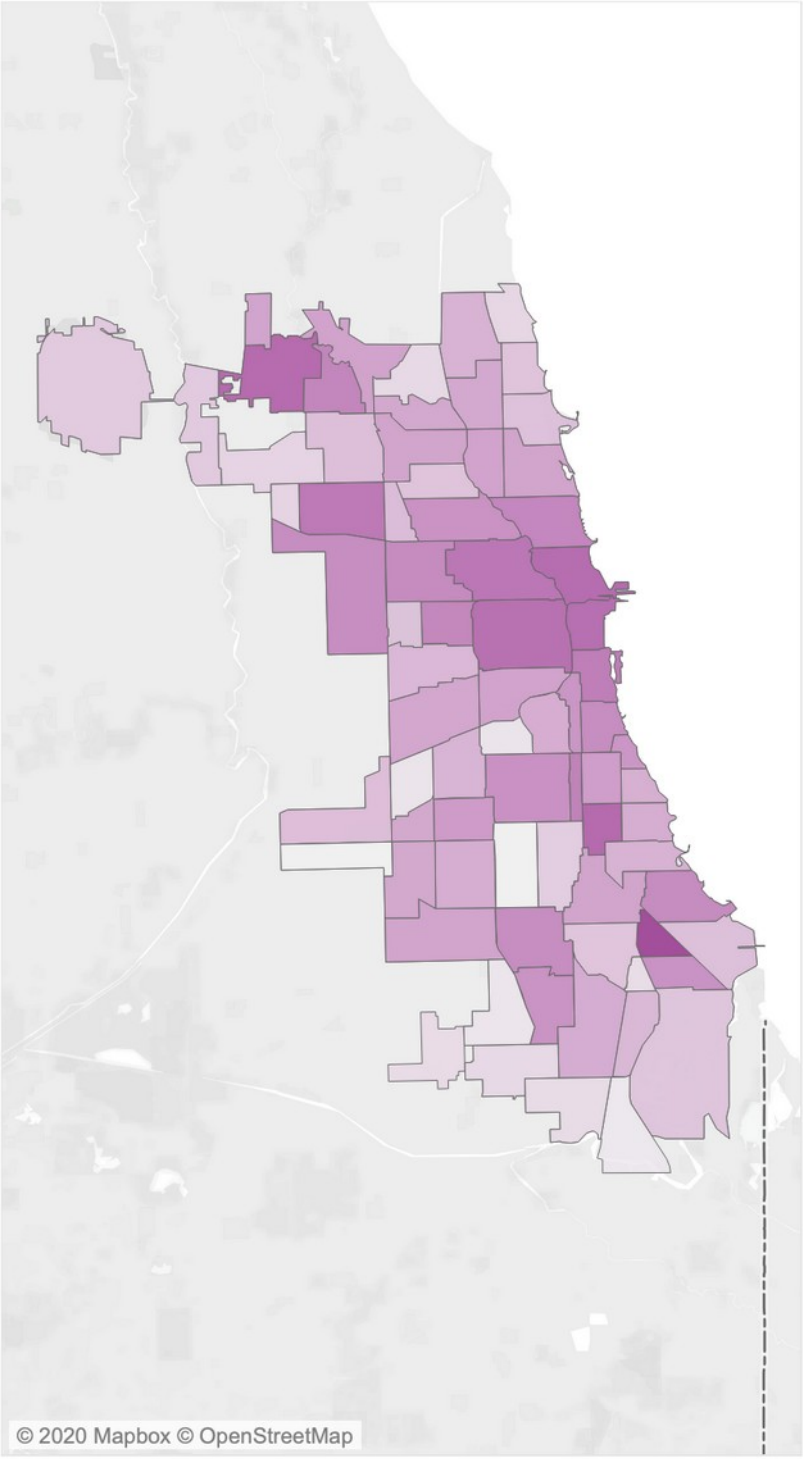
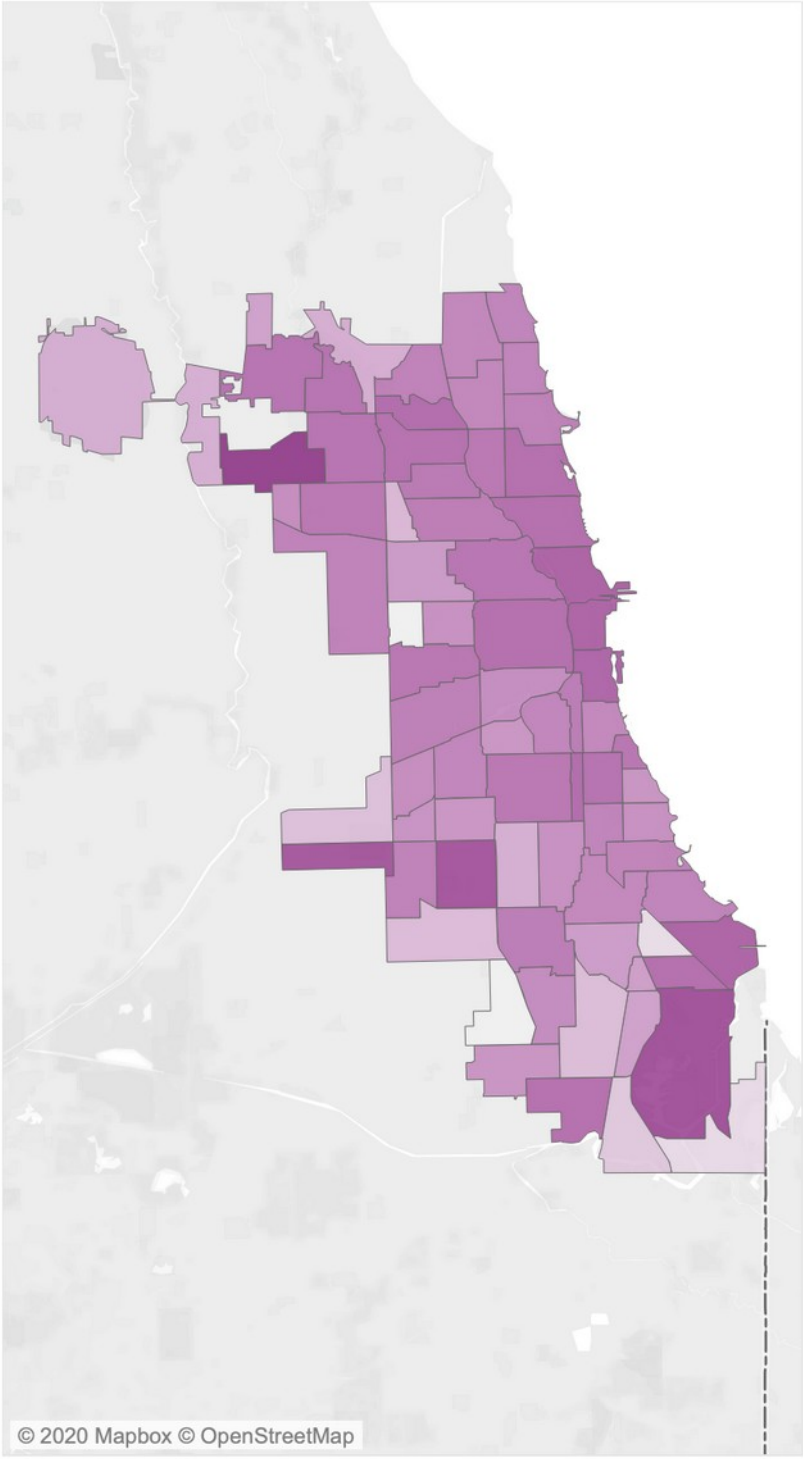
Data Source
y_true_map_1
predict_map_1
predict_morning
predict_evening
Sheet 5
Sheet 4
y_true_morning
y_true_evening
true_and_pred_dashboard
True_morn_eve
predict_morn_eve

4am - 12pm Predicted Probability (avg)



4pm - 8pm Predicted Probability (avg)



part_of_day
1 to 2

predict_proba_y_hat

0.0000 0.5000

part_of_day
4 to 4

Questions?