

# Travel Recommender System

## The Why and What.

Many international students come to the US every year for education.  
Most use public transportation until events like internship, lifestyle, residential changes.  
Whether buying a car makes sense and helps to save cost and time implications for a student?  
We decided to build an interactive dashboard viz that quantifies a student's travel location data history.

## The Techniques.

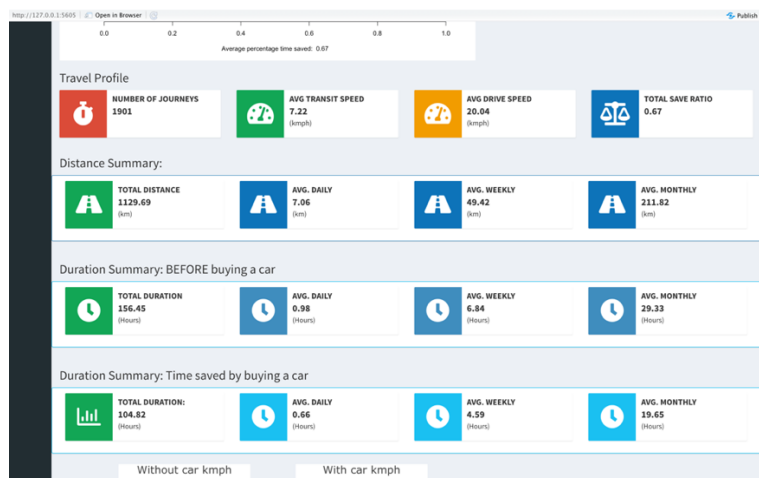
Data wrangling, clean-up and transformation to usable format  
Pattern analysis  
Creation of a unique 7-point bidirectional window to classify journeys  
Clustering and regression

## The How.

Use individual's location history to analyze travel behavior and draw insights  
Algorithm will provide a dashboard view of:  
Distance travelled  
Time spent in travelling  
Frequent trips  
Hypothetical time saved with car  
Assist in making informed decision about the need for car purchase

## Insights.

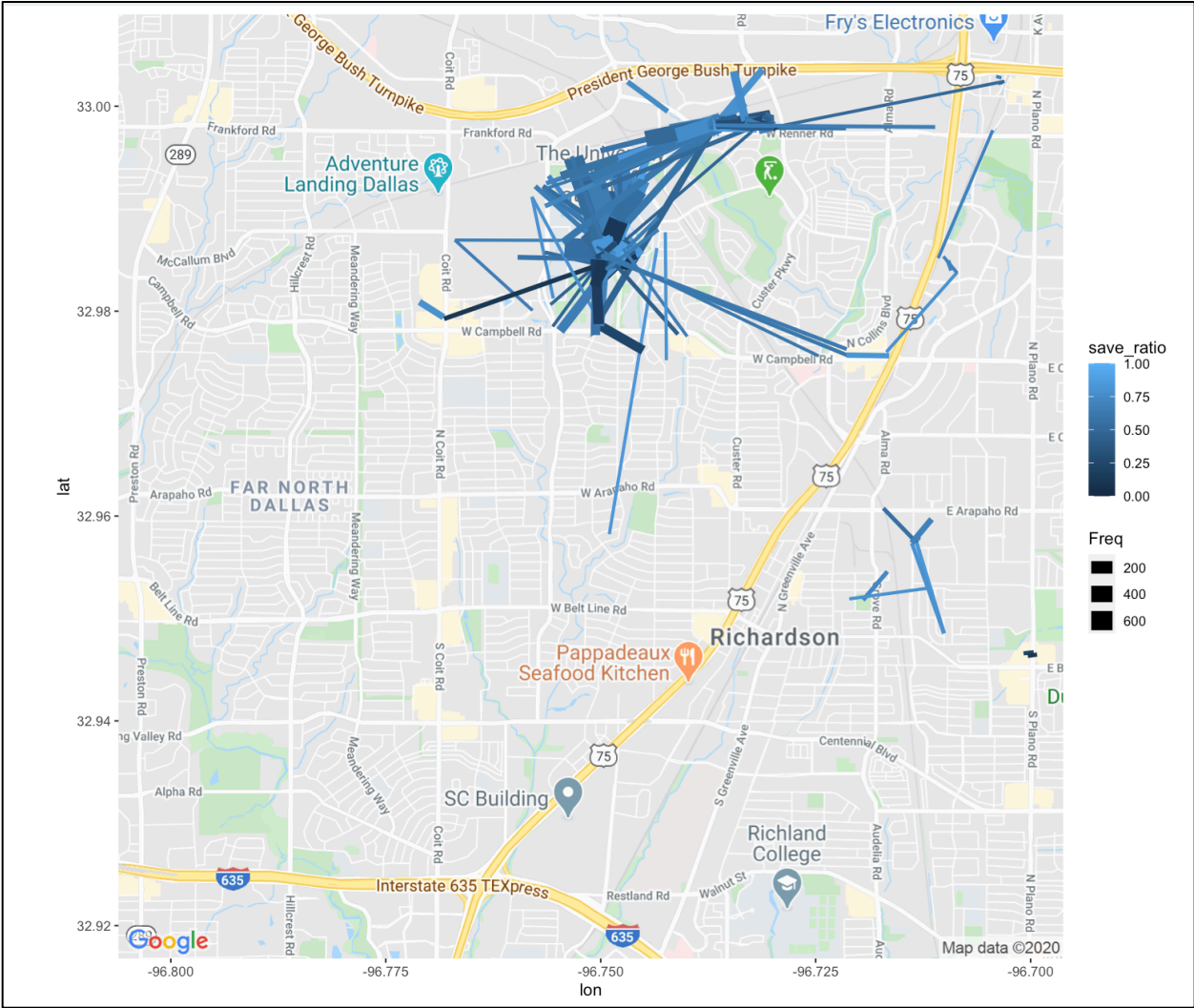
Quantifying journey data allowed us to capture insights on distance travelled, time spent on road and time that could be saved by each student.  
For example, for a particular student, we were able to see the time saved could essentially be 60% if a car is used instead of using public transport.



### Snippet of dashboard

Displays the travel profile and the metrics captured with the travel location data.  
Estimates prefacto and postfacto value changes before and after buying a car.

# GOOGLE MAPS (ROAD MAP) LAYOUT OF ALL THE JOURNEY'S MADE



# TRAVEL PROFILE (DISTANCE AND TIME METRICS)

