

Summary



Goals

What we want to achieve?



Original Assumptions

What we think we will find?



Trends

What we found?



Discussion

If given more time what would we have done?

Goals

Generate as many insights as we could from the Data given by using a multitude of grouping and classification techniques

- Trends by Location
- Trends by Time of year (Winter vs. Summer)
- Trends by Time by time of Day (Night and Day)
- Trends by speed and grouping of speed datapoints
- Trends by communication connection quality (Outages, received vs. sent)
- Trends by Altitude
- Trends by Population Density

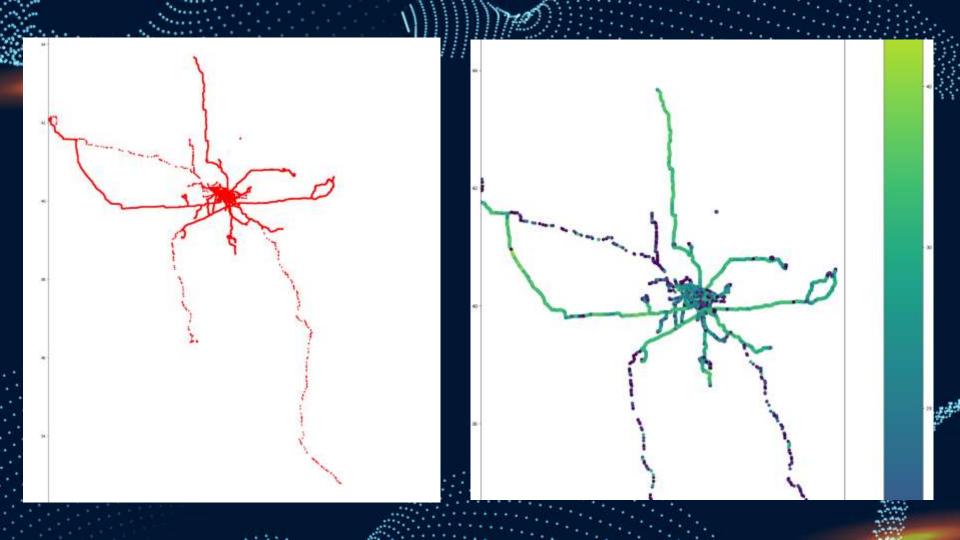
Original Assumptions

- People will be driving slower during the winter months as opposed to warmer months (also night vs. Day)
- The feature Speed would be normally distributed from Start to End
- People would be traveling faster on Highways than local roads
- Sensor outages were a result of bad weather
- Change in altitude would affect the average speed
- There would be changes in distance traveled and average speed compared to week days and weekends
- Traffic or accidents on roadways would lower average speed

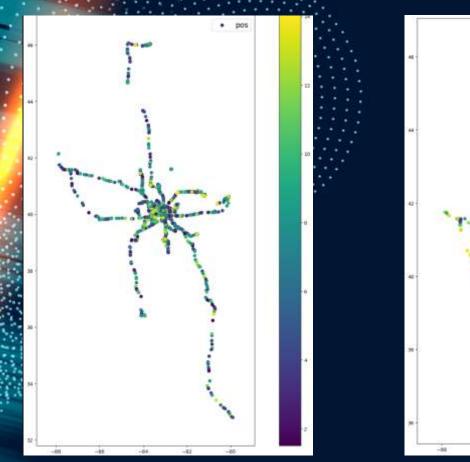
Trends

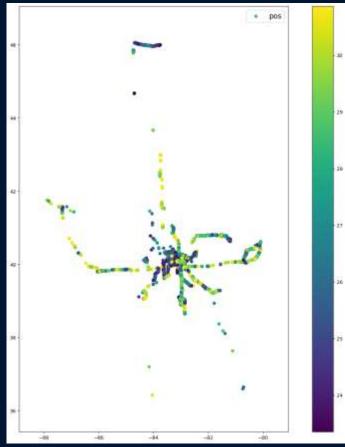
What we discovered?

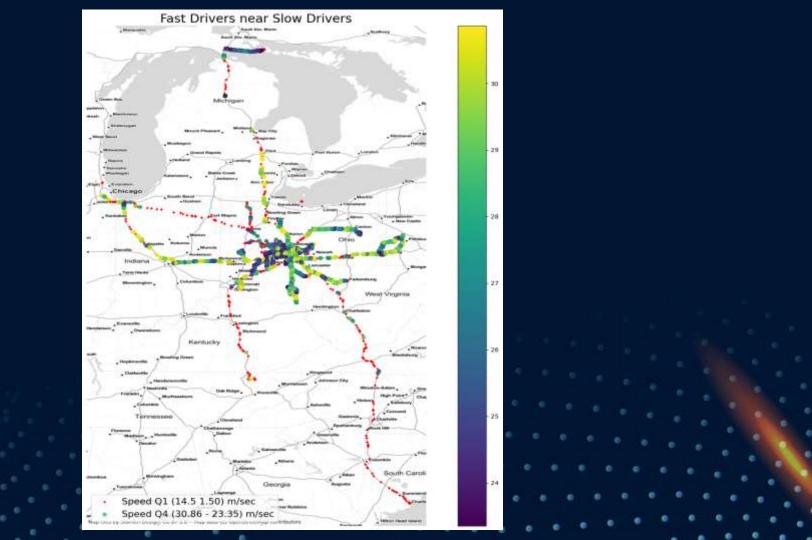


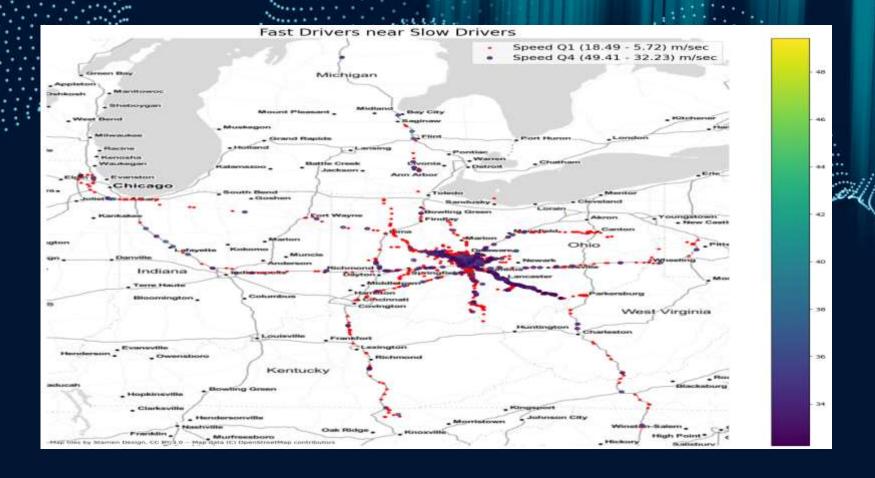


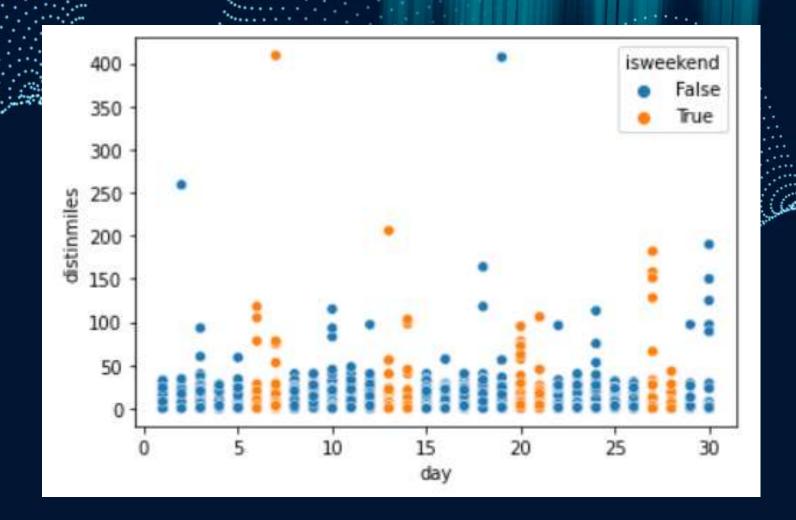
Sunday Q1 and Sunday Q4

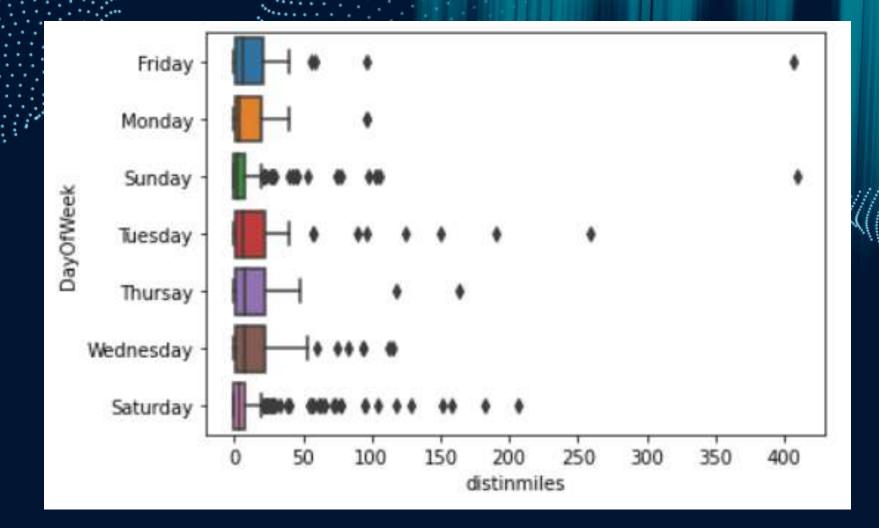


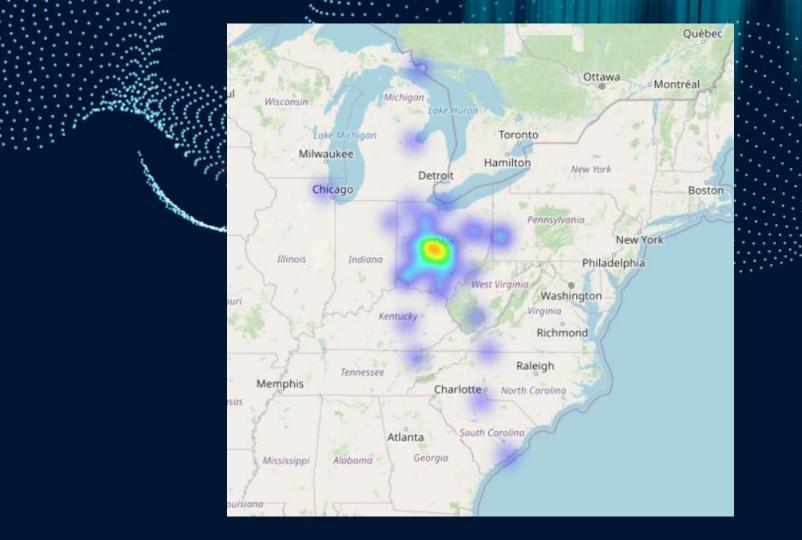


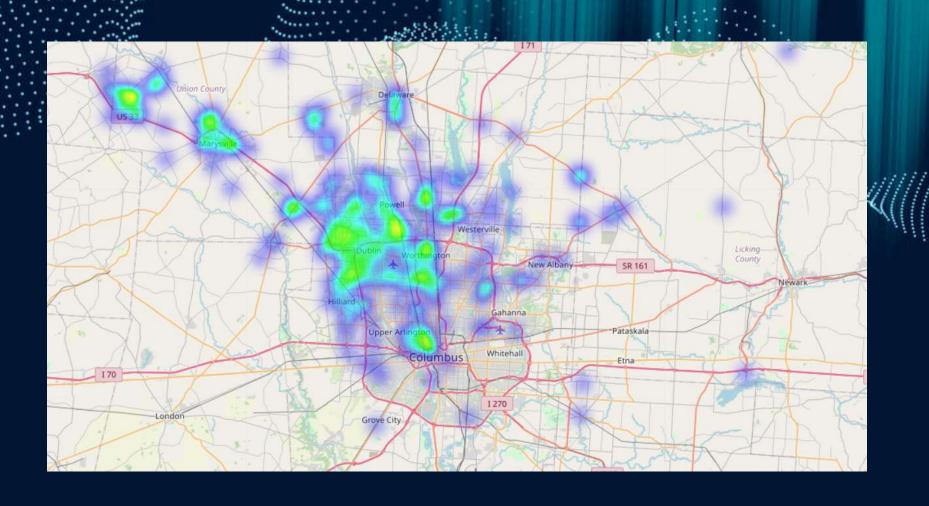












With more time we would ...

Only focused on trends by Date due to time constraint.

- Shift our perspective to Location
- Refine our Data Better
- Used Jupyter Notebook Early on
- If speed and time of day are related?
- Divide and Conquer Strategy
- Clean up the rest of our Graphs for weekdays

