Forecasting Uber Travel Times

Bobby Williams
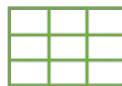
Uber Movement
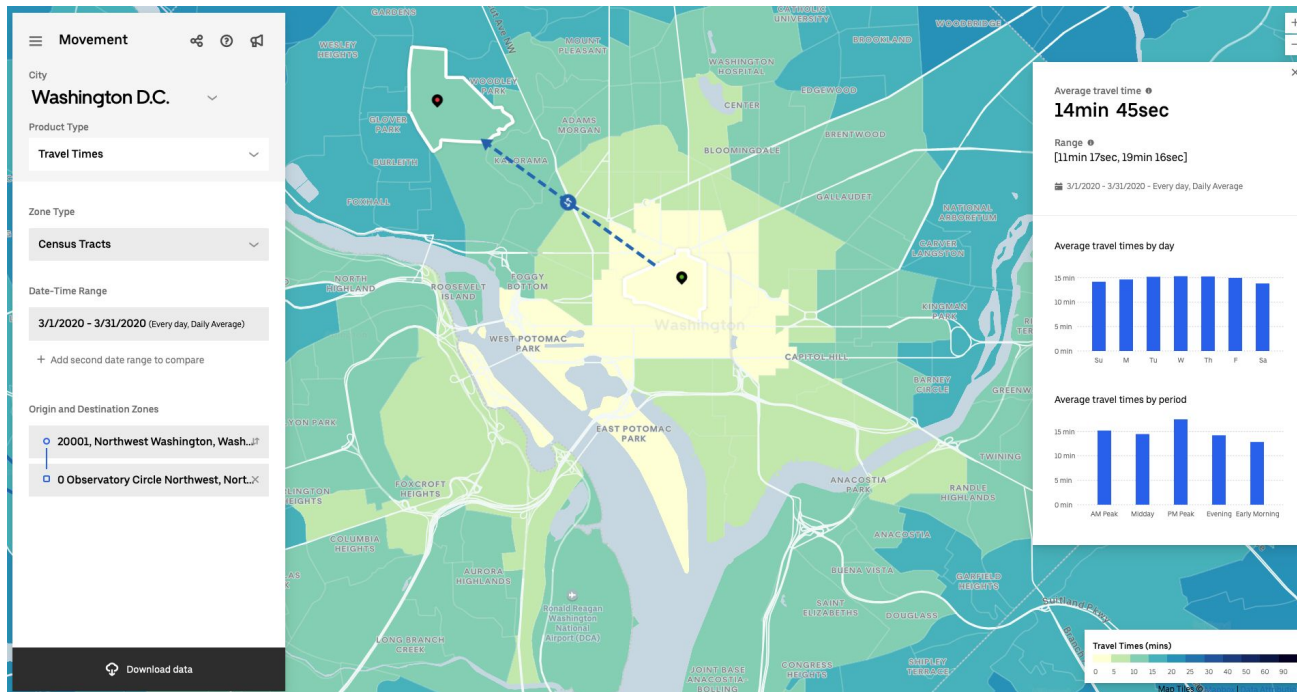
Goal
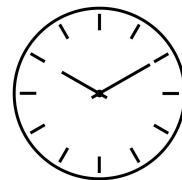
A ──────────────────► B

Data

- 17M data points
- Mean Travel Times from 2016-2019
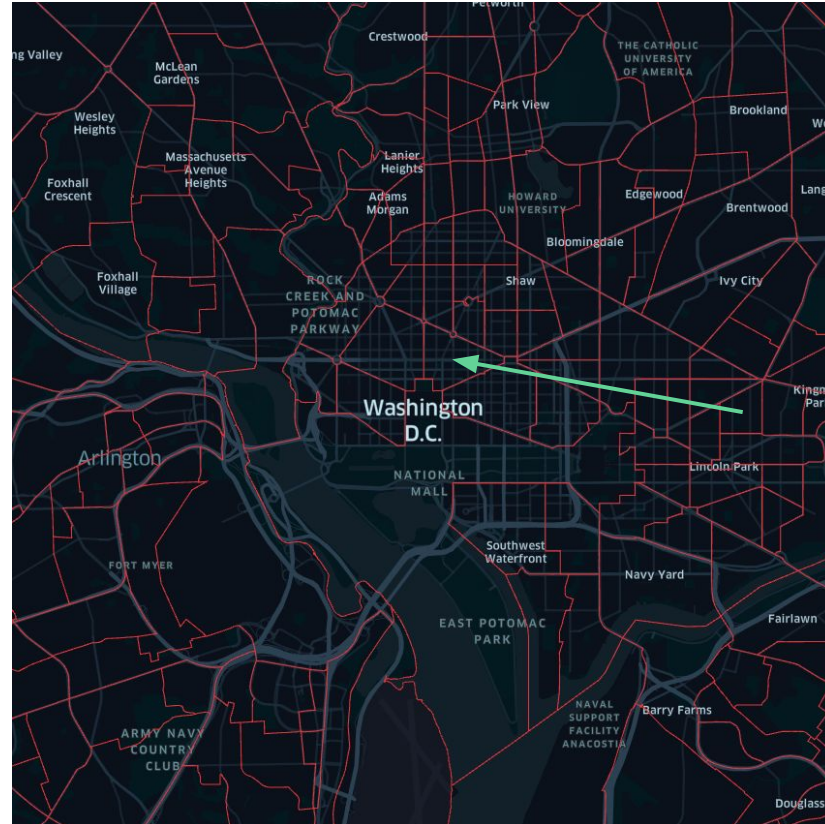- Trips across Washington DC
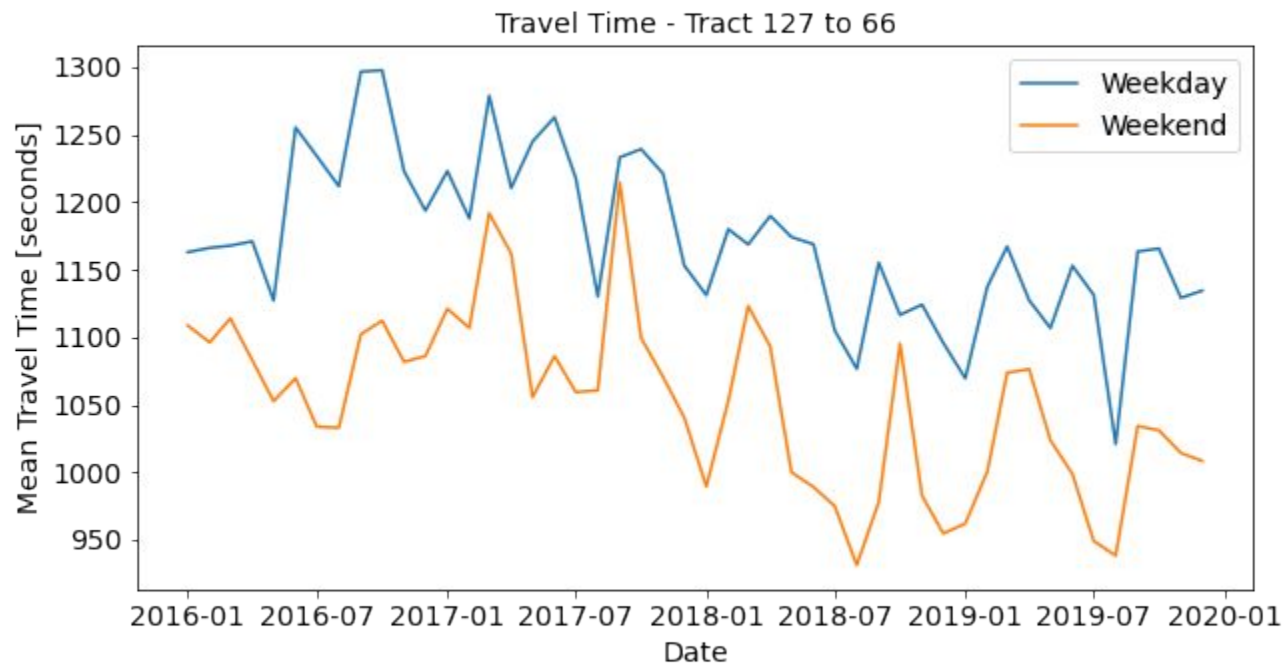
Limitations

- Processing Power
- Data Granularity
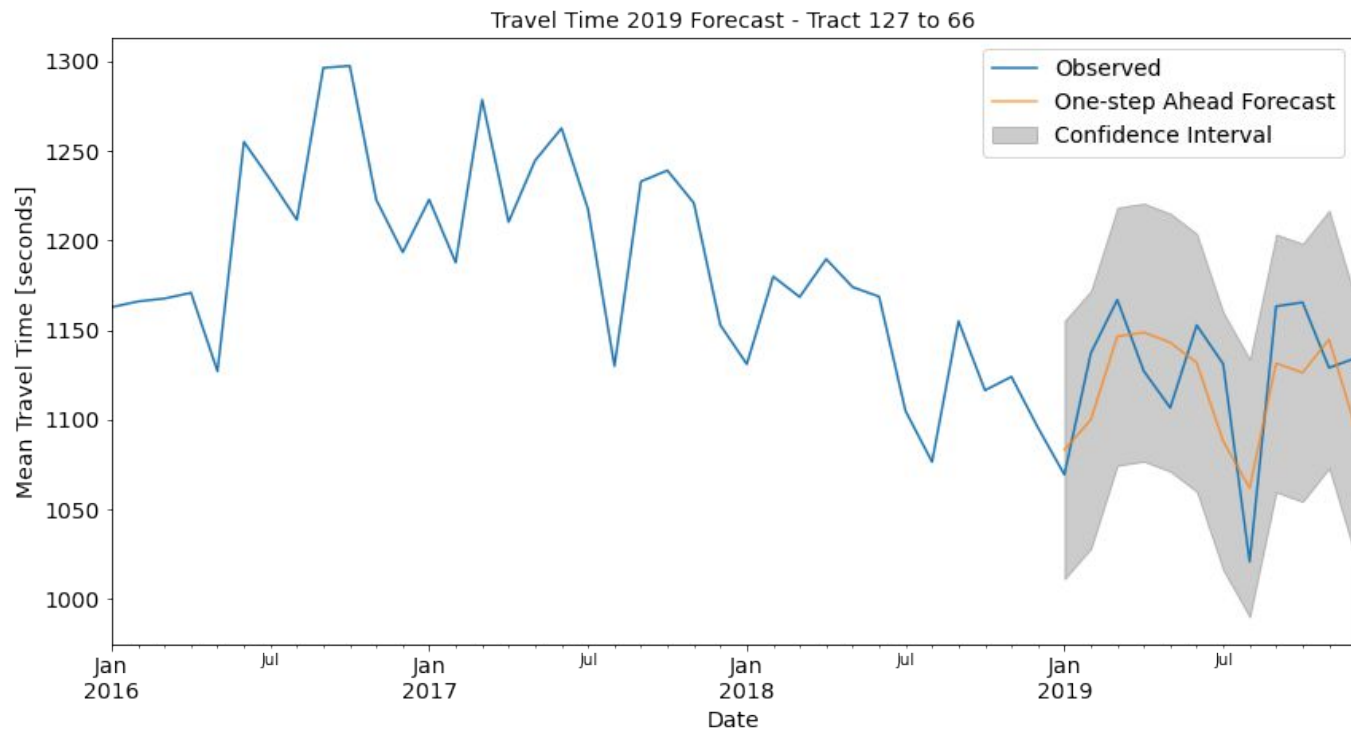
Exploring the Data

Exploring the Data

Travel Time - Trips Starting in Tract 127

Exploring the Data

Travel Time - Tract 127 to 66

Modeling

Predicting

Travel Time 2019 Forecast - Tract 127 to 66
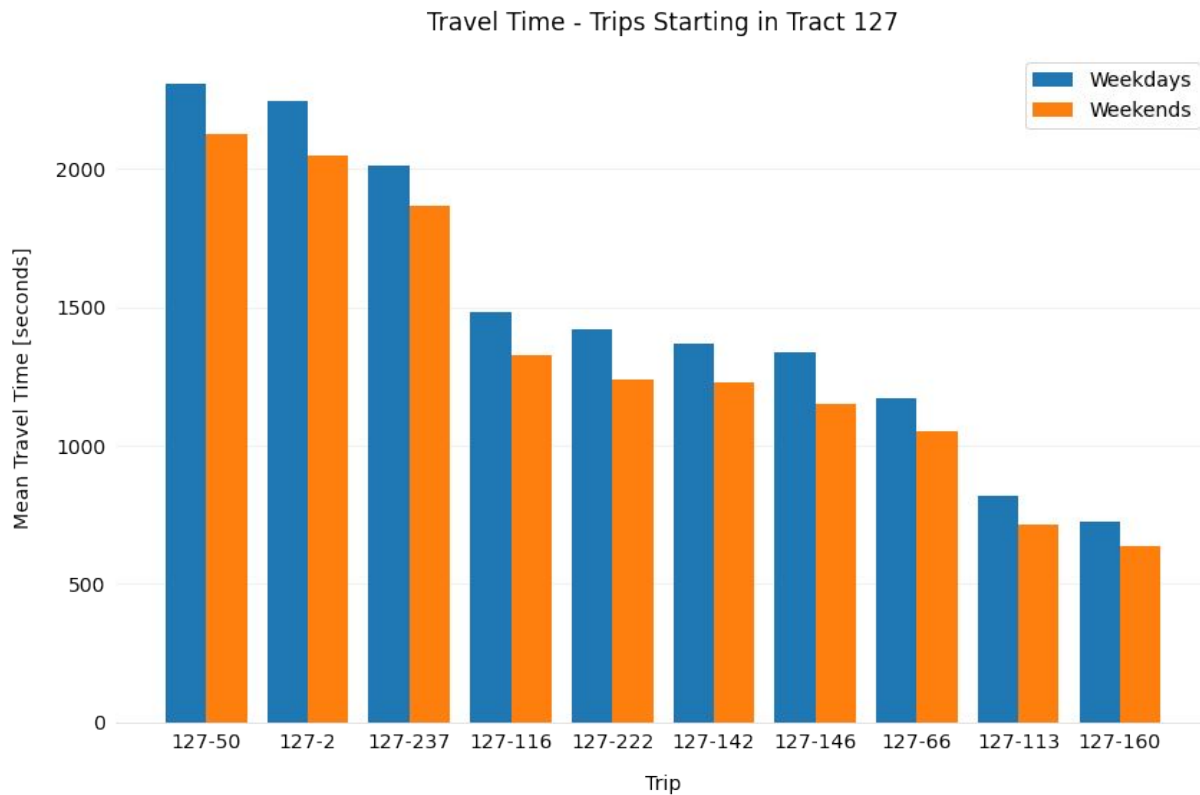
Optimized Model RMSE 31.7

Forecasting
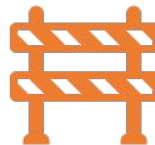

Travel Time 2020 Forecast - Tract 127 to 66
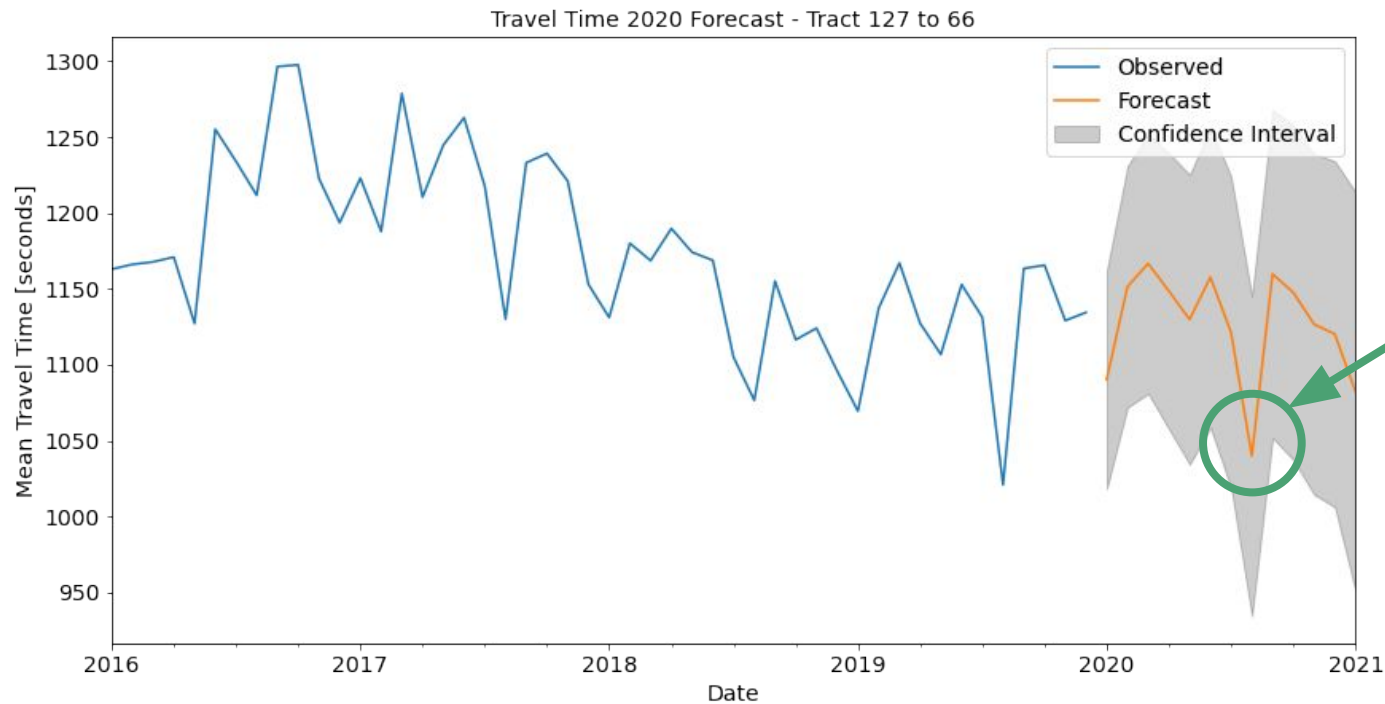
Target August 2020 for construction projects

Recommendations/Next Steps

- Project Integration

- Road Construction

- Wider Implementation

- Improve Modeling

Contact Information

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