# Predicting Traffic Accident Likelihoods in Seattle

Ming Huang

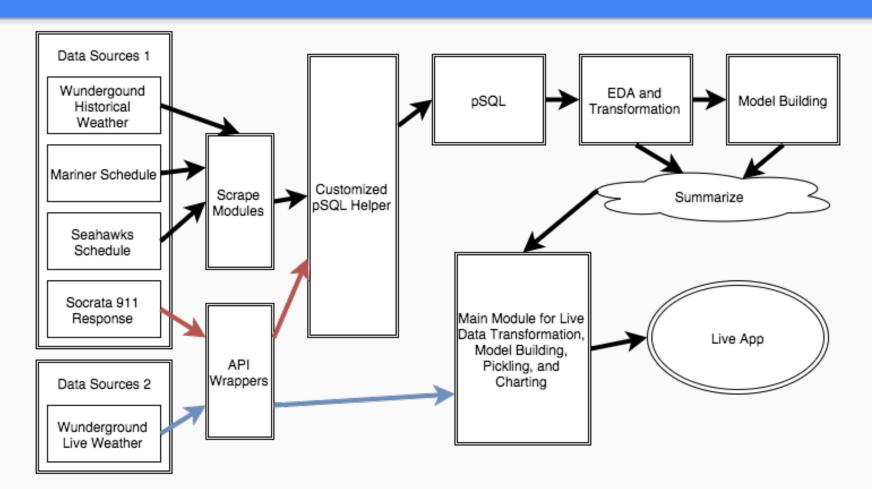
## Why?

- ~10,000 collision related traffic accidents a year
- Better resource allocation of 911 response teams
- Awareness of risks

### Goals of this Project

- Use publically available and relevant data
- Identify predictive features and models
- Create an automatable data pipeline
- Build a live app reporting likelihoods

### **Visualized Project Summary**

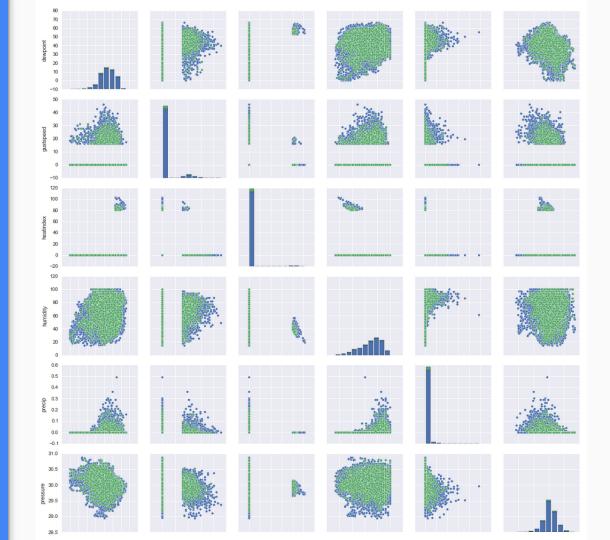


### **Current Findings**

Lots of unaccountable randomness

Imbalanced classifiers

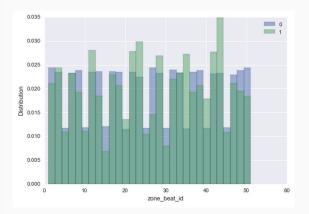
• Random Forest performed the best overall

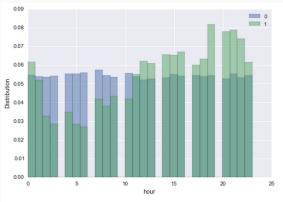


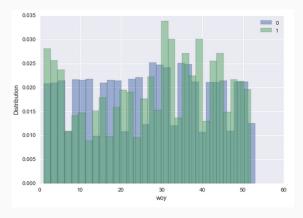
# **Current Findings** continued

There are noticeable patterns

 Still plagued with randomness







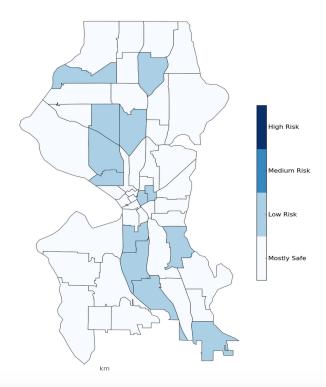
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### My App

- Choropleth of Seattle precincts shaded by the rate of accident risks.
- Updates automatically every 60 minutes by using the most recent Wunderground weather report

#### **Current Traffic Accident Likelihood by Seattle Precincts**

Last updated on 2015-09-24 22:10:16.450022.



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### Next Steps

- Add and improve on existing features
- Find ways to account for randomness
- Implement non-conventional models
- Improve App functionality and design

### Thanks!

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