

The image features two thick black L-shaped brackets. One is positioned on the left side, with its horizontal bar at the top and its vertical bar extending downwards. The other is on the right side, with its vertical bar at the top and its horizontal bar at the bottom. These brackets frame the central text.

# PREDICTING SEVERITY OF CAR ACCIDENTS

# Predicting severity of car crashes

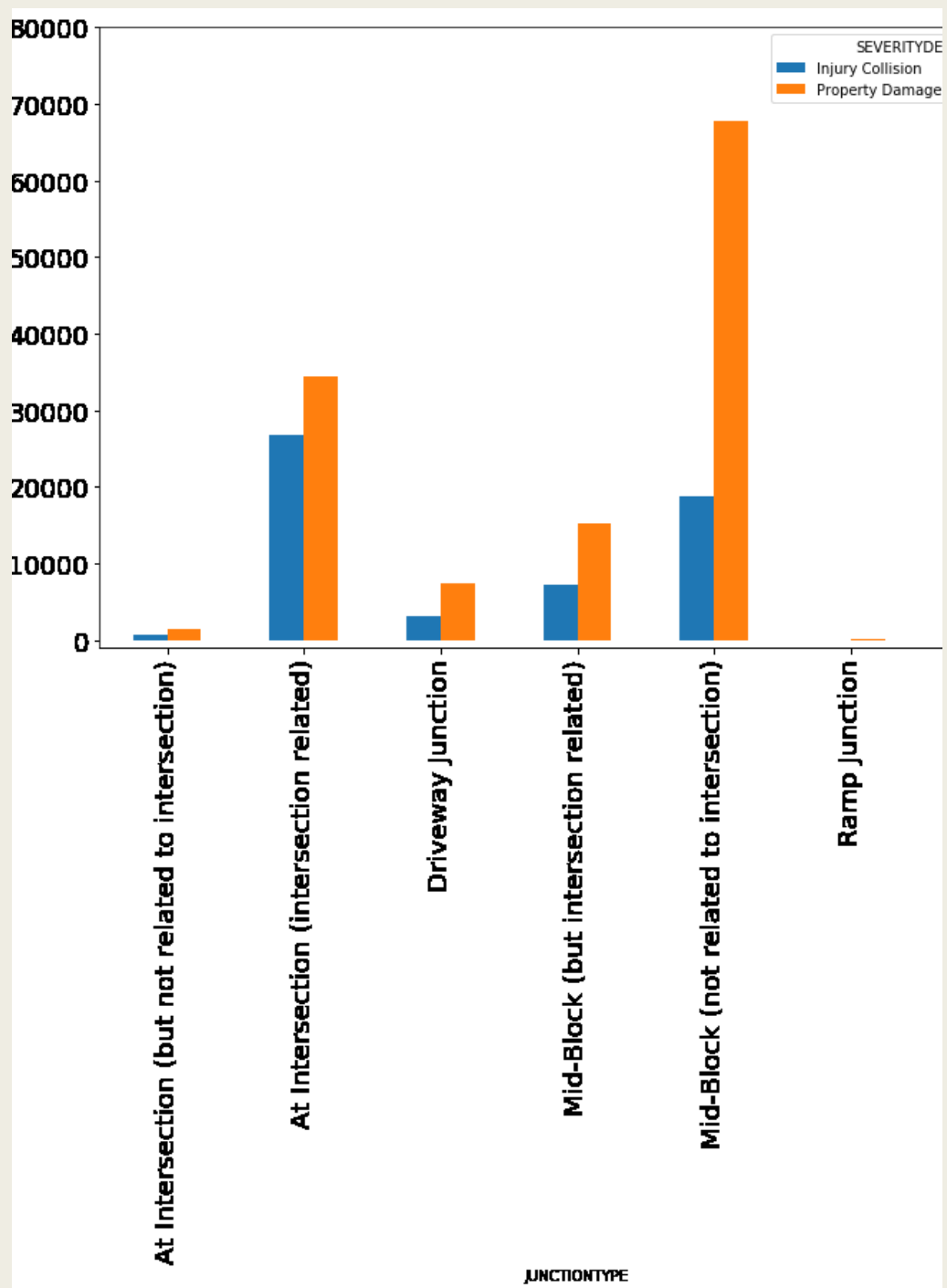
- Vehicular accidents are one of the most common causes for fatalities and injuries
- Researching whether we can predict the severity of accidents based on information such as its location, the weather, road conditions and light conditions.
- Target Audience:
  - *Seattle Government*
  - *Seattle Police*
  - *Seattle City planners*

# Data Acquisition and Cleaning

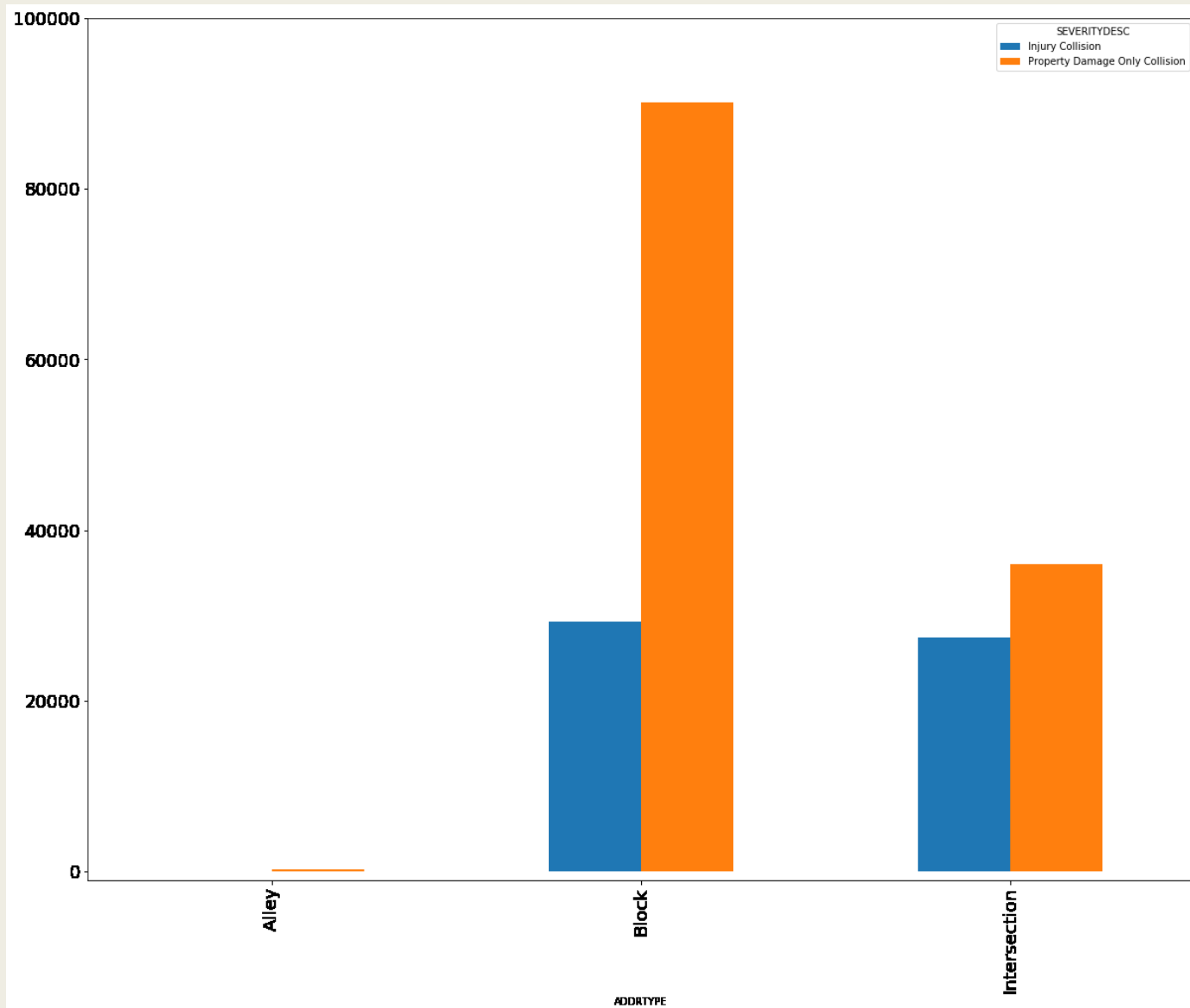
- Data provided by coursera on <https://s3.us.cloud-object-storage.appdomain.cloud/cf-courses-data/CognitiveClass/DP0701EN/version-2/Data-Collisions.csv>
- Dataset has information gathered on the road traffic accidents of Seattle City with 38 columns and 194673 rows.

# Data Acquisition and Cleaning

- The majority of the data was not relevant to the project and was dropped
- Cleaned data contains 6 features, with SEVERITYCODE and SEVERITYDESC being the result we are trying to predict
- Only ~6% of the rows contained null values, those rows were dropped



## ACCIDENT SEVERITY PER JUNCTION TYPE



ACCIDENT SEVERITY  
PER ADDRESS TYPE

# Conclusion

- Build a decision tree to predict accident severity
- Accuracy of the model can be improved