



# **PREDICTING MAJOR CAUSE FOR CAR ACCIDENTS IN SEATTLE**

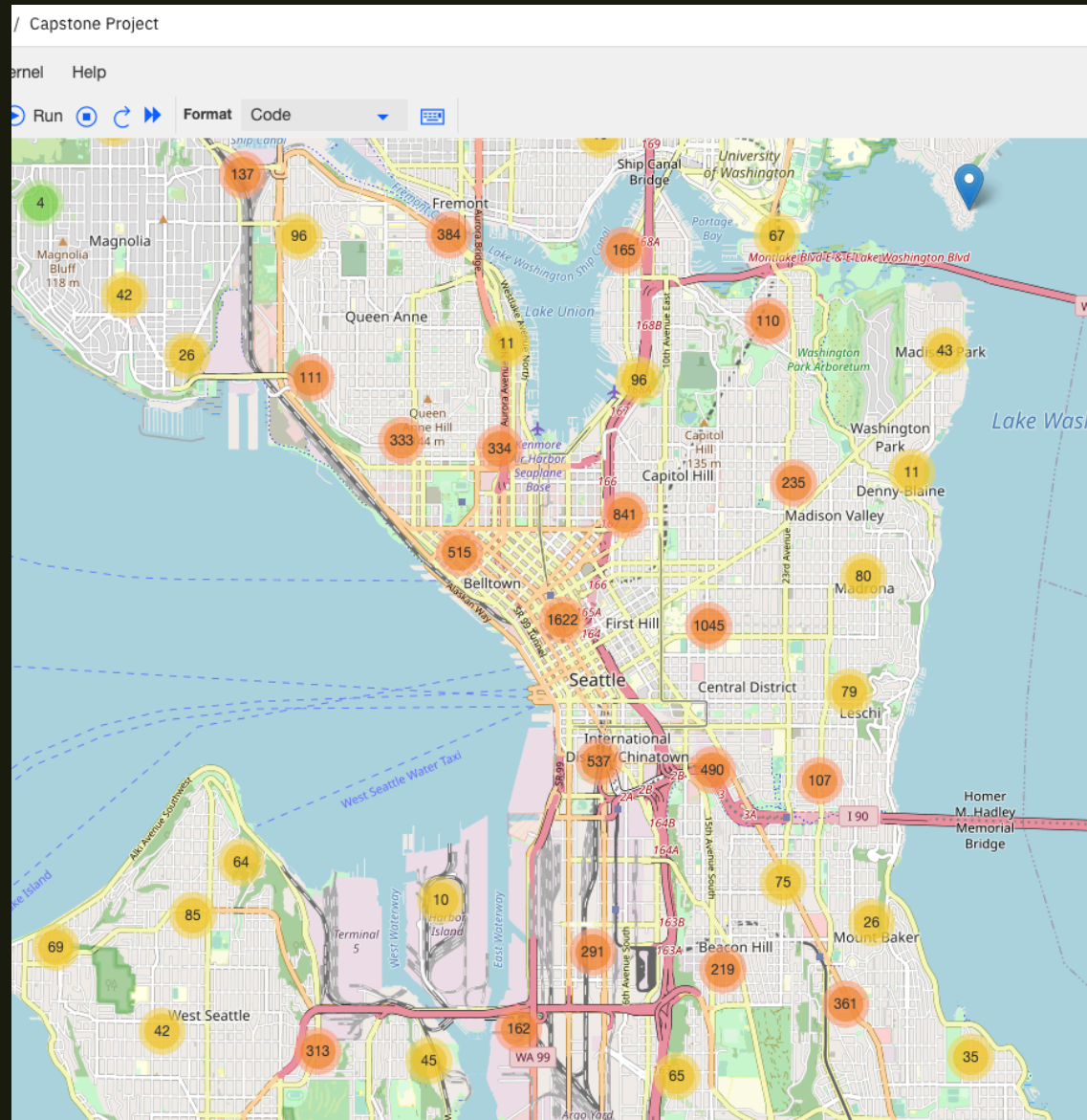


## The value of predicting this major causes

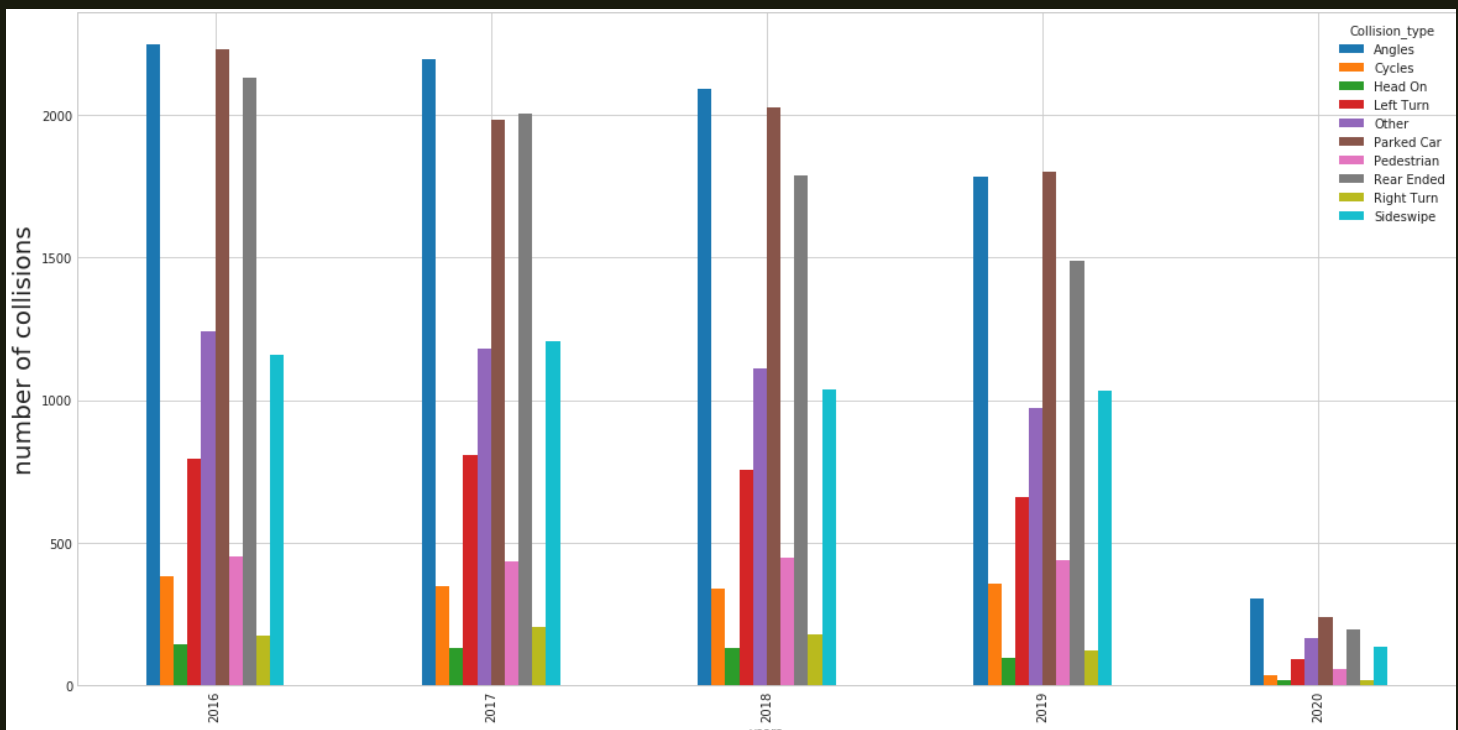
- Car accidents in the US is one of the top reason of death and costs millions of dollars annually in damage.
- Seattle is one of the cities with most precipitations and this increases the amount of car crashes for this city.
- This can help the city take action to minimize not only the amount of accidents but its severity also.

## Data acquisition and cleaning

- Data Set used in IBM data science course. <https://s3.us.cloud-object-storage.appdomain.cloud/cf-courses-data/CognitiveClass/DP0701EN/version-2/Data-Collisions.csv>
- Total of 194673 rows and 38 columns.
- Eliminated similar value columns, Nan Values and non-relevant columns.
- Cleaned data 194673 rows and 22 columns.

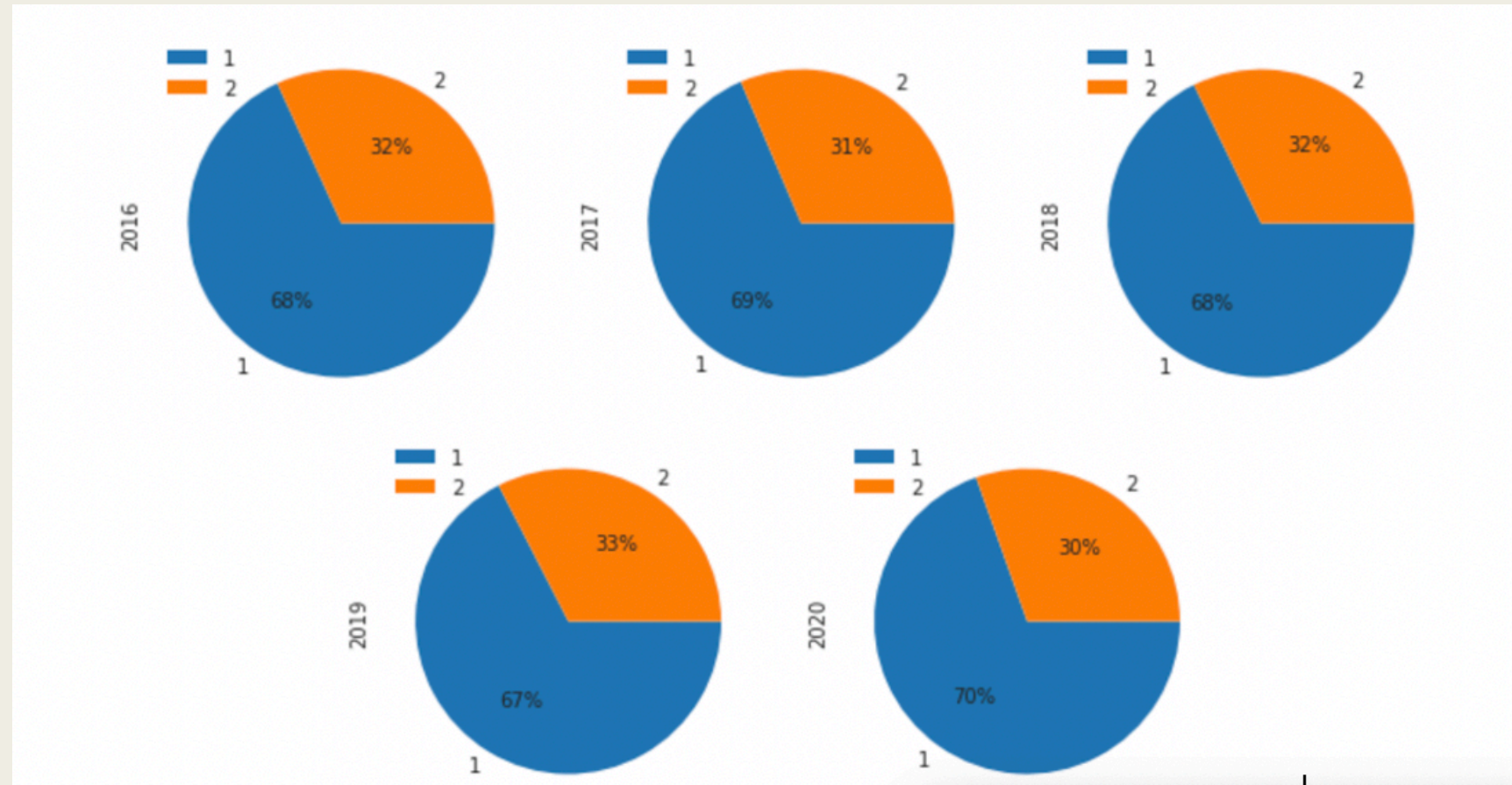


ANALYZE THE  
GEOGRAPHIC  
AL AREA OF  
THE  
ACCIDENTS

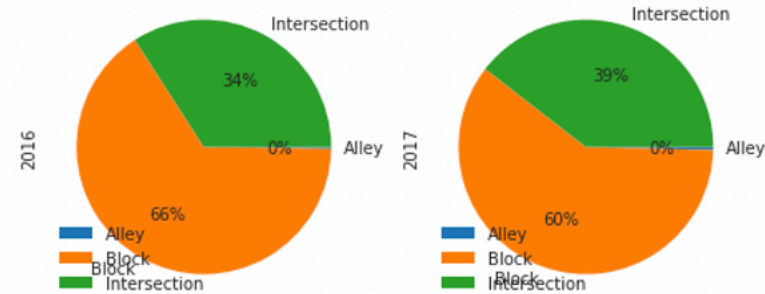


# MOST COMMON COLLISION TYPES

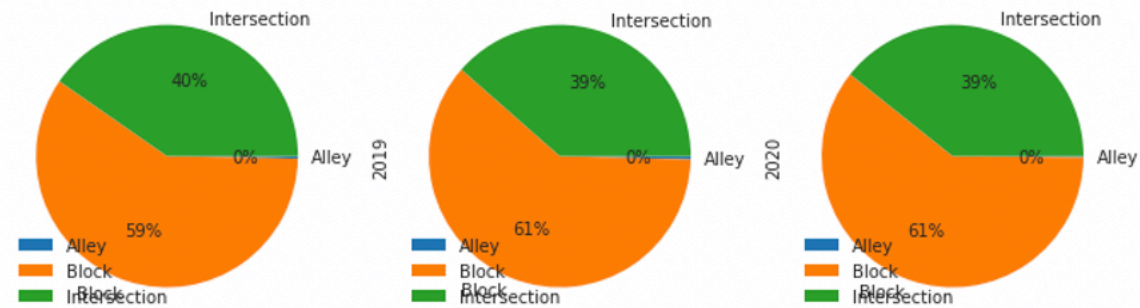
# Severity Frequency



# ADDRESSES WITH MOST ACCIDENTS



Severity on accidents through the years



# Conclusions and recommendations

- Repair light and road conditions where car accidents are more frequent
- Take extra precautions while driving under heavy weather or areas where car accidents are more frequent.
- Avoid areas where road conditions are not optimal for driving safely.