project on predicting accident severity of cars

Data:

Load file

Display categorical features

Inspect the features like Accident_Severity, Speed_Limit,etc.,

- Most accidents occur at low speed limits but they are more severe in proportion at higher speed limits (makes sense)

Weather, road surface and light conditions

- Most accidents occur in normal weather, only Fog or High winds increase the proportion of severe accidents
- Darkness significantly increase the probability of severe accidents
- Bad Road surface conditions do not increase accident severity

Junctions types

- The majority of accidents occur away from a junction
- Also the presence of a junction do not increase accident severity

Display ordinal features

Other Features(if any)

- Day times and peak times experience the most accidents but they are more severe at night

Geospatial visualisations

Accident_Severity-GeoSpatial associations analysis

- As seen on the Geospatial visualisations, there is some association between localisation and accident severity.
- Specifically, given a certain accident_severity, determining latt/long is possible.

- The reverse is not true though: It seems difficult to predict accident severity given a certain location.