**DS Project on Accidents**

Introduction –

As the number of vehicles is increasing the number of accidents occurring has also increased. This Project is to predict the severity of an accident – Low of High. This will be helpful to warn us beforehand about the chances of accident so that it can be avoided.

Data –

The data used for this project is the collision data set of Seattle City. The data consist of many attributes and observations. The data is labelled.

Methodology –

Data Processing is needed. Such as

* + Removing missing values
  + Standardising labels
  + Feature Selection

Modelling – Decision Tree Classification algorithm is used to predict the severity of the accident based on the address type, weather condition and road type.

Results –

With the help of Decision Tree Classification algorithm a model is generated which is able to predict what will be the severity of the accident based on the given conditions. The model has the accuracy of 0.7, which is fairly OK.

Conclusion –

The attributes used for the model selection can be modified to increase the accuracy of the model.