Final Report for Capstone Project

On

Predicting the Severity of the Accidents depending on various conditions

1. **Introduction/Business Problem: - The Seattle Department of Transportation- Traffic Management Division and Seattle Police Department are taking on a joint venture to improve the performance of traffic management system for predicting the severity of accidents depending on the various persisting conditions and provide a warning for the travellers in such conditions. This will also help in determining the accident-prone areas where more care and measures needs to be implemented. This is also done with a view of improving the traffic management in case of severe accidents in order to not cause inconvenience for the travellers.**
2. **Data Section:- The Data which is going to be used for development of the model is the Collisions data that is provided by the Seattle department of transportation and Seattle police department and recorded in the traffic records. The data consists of all the Accidents taking place from year 2004 to Current year and is updated weekly. The data includes information about various attributes including weather conditions, road conditions, visibility, Accident severity. Since data is updated continuously the model can be trained and tested for continuous improvement and increasing the accuracy.**