**1. Business Problem**

**1.1 Introduction**

When people are driving from one city to another city there is chance of you being struck in the traffic because of an accident. Now the problem is once a vehicle is met with an accident there will be lot of physical and monetary effort that will have to be put into transporting the victims to hospitals and reduce the damage caused to them. In addition to that there will also be a problem with the traffic jam which will create problems to a lot of people in many different ways such as delaying their travel times, increasing pollution and other lot of things. Now if we are having a way to predict the probability of accident taking place and its severity based on different conditions such as road condition, weather conditions and other important parameters. We can inform people and then they can take informed decisions on how to drive carefully. So that is the reason why we can provide a solution to this problem using the following project.

**1.2 Intended Audience**

Normal citizens, police department and civil engineering department scan use the project for their own benefits. For example, the data that is considered for the problem is of the Seattle city, so the people who are travelling in and out of Seattle city as well its residents can use this information for deciding how to drive carefully or let us avoid driving tighter based on the pre-existing conditions. Police, fire and a paramedical team can have a careful preplan for providing immediate support in case if the accidents occur. Civil infrastructure department can use the data to understand and improve the infrastructure and traffic flow patterns. Visualizations and data for the areas where maximum number os accidents are taking place due to various uncontrollable forces during road travel will also be made available to the users.