Car Accident Severity Study based on Data from Seattle, WA

Applied Data Science Capstone Project, Coursera

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1. INTRODUCTION

Every day, about 3,700 people die in road traffic worldwide. Road traffic accidents are an increasing problem even in times of modern vehicle technology and well-developed infrastructure. According to the World Health Organization (WHO), 1.35 million people die in traffic accidents every year. According to the Federal Statistical Office, the causes of traffic accidents involving personal injury in Germany are:

- Driver mistakes
- Road conditions, weather influences, obstacles
- Technical defects
- Incorrect pedestrian behavior

This information can probably be transferred to other countries

If it were possible to predict on the basis of given real time conditions (Driver, Road, Vehicle etc.) how likely it is that an accident involving personal injury will occur, this would be a valuable aid and decision-making tool for the following interest groups:

Stakeholders¶

- Trafic participants
- Responsible cities and road planners
- Car Manufacturer
- Motor vehicle insurer
- Emergency and health care personal