

A close-up photograph of a pencil lying diagonally across a piece of graph paper. The graph shows a series of data points connected by lines, forming a clear downward trend. The x-axis has numerical labels '100' and '50'. The y-axis has labels 'point is' and 'on'. The background is slightly blurred.

Predicting Crash Severity for Vic Australia

LIXIAO YUE

Table of content

- ❑ Introduction
- ❑ Data Acquisition
- ❑ Data Wrangling and Cleaning
- ❑ Data Understanding
- ❑ Methodology
- ❑ Result
- ❑ Discussion
- ❑ Conclusion
- ❑ Appendix

Introduction

Traffic accident happens every where in our life.

How to reduce/avoid accident, it is always one of key target of transport department. before that we need understand What the factors are effecting traffic crash severity?

- ❑ Transport department would know that and take actions for accident reduction.
- ❑ People should know that and take carefully deal with various situations.
- ❑ Car vendor would have those information to improve safety equipment/sensor for car.

Data Acquisition

- ❑ To solve the problem for analysis, following data are expected as sample.
 - Environment: Weather, road condition,
 - Day and time: Weekday, Weekend, Time
 - Person: Driver, Age, Numbers, Drug, Alcohol, seatbelt
 - Traffic Control: Signalling, Stop Sign
 - Location: Intersection , Corner
- ❑ Found Victoria Australia's data between 2013 and 2019
 - <https://discover.data.vic.gov.au/dataset/crash-stats>
 - Multiple csv file cover whole data.
 - But some expected data could not find. Such as seatbelt status, drug / alcohol status,

