**Project Proposal for data Visualisation Track**

**Project Topic:** Victoria Road Crash Analysis

**Aim:** To uncover patterns of roads crashes in the state of Victoria. We’ll examine relationships between different types of accidents, speed zones, demographics of involved individuals, local government areas, time series data, vehicle types, and severity of accidents.

**Types of research questions we propose to answer:**

1. The different types of accidents on Victorian roads
2. Types of people most involved in the accidents (males vs females, ages groups, pedestrians/ passengers/motorcyclists)
3. What Local Government Areas (LGAs) have the most accidents? Which LGAs have the least?
4. How has the number of accidents changed over the years (2012 - 2023)?
5. The day of week and time of day most accidents happen?
6. What types of vehicles are mostly involved in accidents?
7. The number of crashes by severity of accidents?
8. The probability of accidents by Vehicle make?

**Method of Analysis:**

Different types of JavaScript libraries will be used to visualise data including plotly, d3 and leaflets. New libraries will be researched.

Source for the data: <https://discover.data.vic.gov.au/dataset/victoria-road-crash-data>

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