Project Overview

Ambulance:-

The aspect of the project is to analyse the data, where in the various steps of the data analysis cycle have been used to identify factors that affect road accidents and Applying demographic characteristics to ambulance data and Road accident data

Bushfires:-

The primary goal of the project is to predict areas which have a considerable risk for bushfires across bushfires and developing a website with information based on bushfire regions which have high risk of fires

Project Goals

To develop two platforms for analysing ambulance and bushfire data. One to predict road accidents and their causes, the other to predict bushfire risk.

Together, these platforms must:

* Display data visualisations and insights about bushfire prevalence and road accidents in Australia,
* Be easily modifiable and able to incorporate new features and functionality in the future,
* Inform the user on how they can respond in the case of a bushfire,
* Be able to predict bushfires when certain areas are at a high bushfire risk, based off weather conditions.

Project deliverables

Ambulance

* Collect ambulance data by joining weather data and incidents from different sites.
* Clean data to improve its quality and make it easier to analyse.
* Create a prediction model for the number of accidents based on various demographics.
* Visualise the data with a number of graphs created with Tableau. These should be embedded in the website.

Bushfires

* Extract the necessary bushfire data required to perform analyses.
* Clean data to improve its quality and make it easier to analyse.
* Produce a Tableau dashboard that shows various bushfire visualisations, including a heatmap that has geographical and temporal attributes.
* Build a machine learning model to predict areas which are highly prone to fires in future.