**Emergency Management (SIT782)**

# Project Overview

## Ambulance

This aspect of the project relates to analysing road accident data from Ambulance Victoria to learn how an individual’s demographics (e.g. age, gender) impacts their likelihood being involved in a car accident.

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## Bushfire

This aspect of the project relates to analysing bushfire data to understand what areas of Victoria are more prone to bushfires.

# Project Goal

To develop a platform for analysing ambulance and bushfire data, in order to inform the decisions made by Victoria’s emergency service teams.

This platform must:

* Display data visualisations and insights,
* Allow users to upload new data and perform analysis on it,
* Be easily modifiable, able to incorporate new features and functionality in future.
* Add or remove points here until you have clearly and succinctly outlined all of the requirements for the platform you are building.

# 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 gender.
* Visualise the data with a number of graphs created with Python. These should be embedded in the website.
* Discuss as a team and add everything you want to achieve this trimester.

## Bushfire

* Extract the necessary bushfire data required to perform analyses.
* Clean data to improve its quality and make it easier to analyse.
* Produce a heat map which shows the areas which are affected by fires with intensity levels
* Build a machine learning model to predict areas which are highly prone to fires in future.
* Create a website which gives out information about areas which are likely to bushfires and also includes information about safety measures to take in the situation.
* Discuss as a team and add everything you want to achieve this trimester.