**Emergency Management(SIT782)**

**Project Overview**

**Ambulance** :​

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The project is about performing data analysis on Road Accidents data, Ambulance Victoria data and finding the correlation between characteristics of the local populations(age groups, gender), ambulance services used and the weather conditions.​

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**Bushfire:**​

To cluster bushfire prone areas and to understand what areas in the future are more prone to bushfire.​

We are developing an appropriate website using the required tools.​

**Executed**

**Bushfires:-**

* Extracted the data for the bushfire with the attributes needed by collecting keys from team members
* Performed data cleaning to increase the quality of data and make it easy for analysis
* Produced a heat map which shows the areas which are affected by fires with intensity levels
* we have presented a fundamental outlook for the website and an access page

**Ambulance**:-

* collected data for the ambulance by joining weather data and incidents from different sites
* removed null values, irrelevant data and duplicates
* predicted the number of accidents based on gender which shows that male drivers have caused more accidents compared to female drivers and also different attributes

**In Progress :-**

**Bushfires :-**

* building a machine learning model to predict areas which are highly prone to fires in future
* creating 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

**Ambulance:-**

* finalising the visualisation part by plotting graphs by different attributes with the help of python