

Overview:

Domain: Bush Fires in Australia

Dataset: Australian bushfire data set for 2019.

Ideas:

Create a heat map of where all the fires happened in Australia. Use the colour red to indicate where most of the fires happened.

Create a histogram showing distribution of fire intensities using FRP measurement.

Discuss detector confidence.

Plot confidence against fire intensity.

Create a narrative around how detection confidence helps predict fire intensity.

Write a conclusion.

Sheet 1:

Introduction

Discuss the wide spread fires in Australia

Explain the heat map

Heat map

Explain a histogram showing fire intensities and state the frequencies of each

Histogram

Create a scatter plot showing confidence prediction to fire intensity correlation

Scatter Plot

Conclude the findings

Sheet 2:

Introduction

Discuss how wide spread fire
problem is in Australia

Present/Discuss a
heat map of the
issue

Heat map

Explain what Fire Radiation
Power is.

Present a histogram of
fire radiation power
distribution

Histogram

Present a Scatter Plot
Showing fire confidence predicted
to fire intensity

Scatter plot

Conclude the findings

Sheet 3:

Introduction

Fire density across Afghanistan

Heat map

Explain the concept of Fire Radiative power

Discuss findings

Histogram

Explain fire confidence prediction
Create a Scatter Plot

Discuss findings

Scatter Plot

Conclusion

Discuss results

Final version:

- Introduction
- Introduce the issue
- Talk of impacts on people/economy

Discuss how wide spread the issue is. What & who is affected.

Heat Map

- Introduce Fire radiation power.
- Discuss the different levels.
- Why it is important

What are the findings, discuss the distribution and concerns.

Histogram

Explain confidence predictions. What do they tell us? How do we use them?

Present a scatter plot that shows fire confidence to power

Scatter Plot

Conclude findings