**Domain:** Bushfires in Australia

**Datasets:**

**MODIS Fire Archive (Kaggle – NASA FIRMS)**

Link: <https://github.com/mattcoget/Forest-fire-in-Australia/tree/main/data>

* Provides point-based fire detections, enabling maps and time-series of fire activity.

**Forest Area and Fire Impact Tables (FAO / Australian forest reports via Kaggle)**

Link: <https://www.kaggle.com/datasets/kkhandekar/australian-forest-fire-area-20192020?resource=download&select=table3.xlsx>

* Summarising fire-affected areas by state, forest category (native, plantation, other), and tenure (leasehold, reserves, public forest).
* Adds ecological and land-management context to complement hotspot maps.

**Visualisation Ideas:**

**1. Hotspot Map (Geospatial)**

* Plot fire hotspots (lat/long) from MODIS data
* Colour points by FRP (fire intensity)
* *Shows the geographic spread and intensity of fire detections across Australia*

**2. Temporal Trend of Hotspots (Time-Series)**

* Line chart of hotspot counts per month/year
* *Reveals bushfire seasonality and variation over time*

**3. Burnt Area by State (Comparative)**

* Bar chart of total burnt area per jurisdiction (from summary tables)
* Overlay labels showing % of that area that is forested
* *Highlights which states are most affected in general*

**4. Burnt Area by Forest Category (Ecological)**

* 100% stacked bar chart of burnt area split into **native forest, plantations, other forest**
* *Shows ecological consequences and the distribution of burnt forest types*

**5. Burnt Area by Tenure (Management Lens)**

* Treemap or grouped bars showing breakdown of burnt area by tenure (leasehold, reserves, public forest)
* *“who manages the forests that burn?” perspective*