Data Visualization: Assignment 4

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# Design

# Dashboard name and purpose

**Dashboard name**

Pacific Ring of Fire Earthquake Impact Analysis (1901-2020)

**Purpose:**

The purpose of this dashboard is to provide a comprehensive and interactive visualization of earthquake data from 1901 to 2020 in the Pacific Ring of Fire. It aims to analyze trends in earthquake occurrences over time, including frequency and intensity, helping users identify patterns and changes. Additionally, it highlights the human and economic impact of earthquakes by presenting data on damages, injuries, deaths, missing persons, and destroyed houses. The geographical map of earthquakes shows the regions most affected and prone to seismic activity. The dashboard offers detailed insights into the impact on specific countries, aiding in comparative analysis and targeted studies. It also allows for filtering and analyzing data related to tsunamis triggered by earthquakes, providing critical information for disaster preparedness and response. This tool was designed to support researchers, policymakers, emergency response teams, and the public in general in understanding and mitigating the effects of earthquakes globally.

# Tasks solved using the dashboard

1. – Comparative analyses between countries in the region;
2. – Critical Area Identification;
3. – Quick access to real-time information about earthquakes;
4. – History-Based Prevention.

# Sketches

Uma imagem com texto, esboço, desenho, escrita à mão

Descrição gerada automaticamente

# Implementation

# Screenshots

Uma imagem com texto, captura de ecrã, mapa, Software de multimédia

Descrição gerada automaticamente

# Github

* https://github.com/vitorpereira21/Assignment4\_DV.git

# Link to live demo

* https://app.powerbi.com/reportEmbed?reportId=5e9938b7-b4a8-4181-b3bc-ce36fef1dc73&autoAuth=true&ctid=d05d4c80-da1e-4cd7-83a6-0d2094b20418