# **Summary of the US Natural Disasters Dashboard Design**

#### Introduction

The **US Natural Disasters Dashboard** is an interactive Shiny application designed to provide users with comprehensive insights into natural disasters in the United States from 2003 to 2023.

### Overview of the Dashboard

The dashboard consists of four main tabs, each serving a distinct purpose:

- 1. **Map Tab**: Visualizes disaster counts across states using an interactive map and accompanying bar chart.
- 2. **Details Tab**: Allows users to analyse the top 5 disaster types within selected states and year ranges through a pie chart and a data table.
- 3. Trend Tab: Provides a line chart displaying disaster trends over time for selected states.
- 4. About Tab: Provides background information about the dashboard and data source.

### **User Instructions**

- Navigating Tabs: Use the navigation bar at the top to switch between different sections
  of the dashboard.
- Interacting with Visualizations:
  - o Map Tab: Click on a state in the map to update the bar chart with specific data.
  - Details Tab: Adjust the state selection and year range to update the pie chart and data table.
  - o Trend Tab: Select one or more states to display their disaster trends over time.
- **Understanding the Data**: Hover over charts where applicable to view tooltips with additional information.

## **Data Source**

The **US Natural Disaster Declarations** dataset is a summary of all federally declared disasters since 1953. The original data comes from the <u>FEMA website</u>. Only data from 2003 to 2023 has been used in the dashboard.

Data source URL: <a href="https://www.kaggle.com/datasets/headsortails/us-natural-disaster-declarations?select=us\_disasters\_m5.csv">https://www.kaggle.com/datasets/headsortails/us-natural-disaster-declarations?select=us\_disasters\_m5.csv</a>