Project Proposal: Data Analysis of Natural Disasters and Environmental Issues (2012-2023) with Dashboard Implementation

**Introduction:**

This project aims to analyse and visualise Google Trends data related to natural disasters and environmental issues from 2012 to 2023, creating an interactive dashboard for insights. Focusing on 2020-2022, we will filter queries with an index trend score above 70 to ensure data relevance.

**Objectives:**

Gather and clean Google Trends data.

Analyse 2020-2022 data by country.

Filter queries with an index trend score above 70.

Develop an interactive dashboard.

**Methodology:**

Collect and clean Google Trends data.

Store data in an SQLite database.

Create a Python Flask-powered API for data access.

Design an HTML/CSS, JavaScript-based frontend for the dashboard.

Utilise data visualisation libraries for interactive charts.

Integrate all components into a user-friendly dashboard.

**Expected Deliverables:**

A cleaned dataset (2020-2022) stored in an SQLite database.

Python Flask API for data retrieval.

Interactive dashboard featuring multiple charts.

Visual representations of search interest trends.

Insights highlighting regional interests.

**Benefits:**

Enhanced understanding of global and regional interests.

Data-driven insights for decision-making.

Potential to identify emerging trends.

**Conclusion:**

This project combines data analysis, database management, and web development to provide valuable insights into natural disasters and environmental issues. The Python Flask-powered API ensures easy access to up-to-date data, enhancing the user experience for researchers, policymakers, and the public to explore and understand critical search trends.