

Exploratory analysis – Terrorism

Introduction to Project: Exploratory Analysis on Terrorism Attacks between 1970 and 2017

Terrorism has become a global phenomenon, posing a significant threat to human security and stability. Understanding the patterns and trends of terrorist activities is crucial for developing effective counterterrorism strategies. The Global Terrorism Database (GTD) provides a comprehensive dataset on terrorist attacks around the world from 1970 to 2017, offering a valuable resource for exploring and analysing these events.

This project aims to conduct an exploratory analysis of the GTD dataset to uncover key findings pertaining to terrorist activities. The analysis will focus on various aspects of terrorism, including:

- Number of attacks per year
- Top 20 countries with the highest number of attacks
- Attacks in different religion of the world
- Weapons used in terrorist attack
- Distribution of types of attacks in terrorist attacks
- Most frequent target of terrorist
- Number of attacks by terror organization
- Percentage of Successful Terrorist attack
- Top 10 Countries Unable to Successfully Tackle Terrorist Attacks (More Than 7 Attacks)
- Top 10 Countries Successful in Tackling Terrorist Attacks (More Than 7 Attacks)
- Use of Top 5 Most Frequently Used Weapons Over Time
- Use of Top 5 Target Types Over Time
- Number of Successful and Failed Attacks Over Time

By examining these factors, the project seeks to gain a deeper understanding of the nature of terrorism and its evolving patterns. The insights gained from the analysis can inform policymakers, security agencies, and researchers in developing more effective prevention and mitigation strategies.

The project will utilize a range of exploratory data analysis techniques, including data visualization, descriptive statistics, and correlation analysis. These techniques will help identify patterns, trends, and relationships within the data, providing a comprehensive overview of terrorist activities between 1970 and 2017.

The findings from this project will contribute to the broader understanding of terrorism and its impact on global security. The insights gained can inform counterterrorism efforts, promote public awareness, and foster a more peaceful and secure world.

Link to exploratory analysis: