

# EDA For Terrorism

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## Overview

The Global Terrorism Database (GTD) is a comprehensive source of information on terrorist attacks around the world. This database includes detailed records of terrorist incidents, including the date, location, type of attack, number of casualties, and more. This report aims to analyze the dataset and provide insights into various patterns of terrorist attacks and their impact on different countries and regions.

## Goals

1. Perform 'Exploratory Data Analysis' on dataset 'Global Terrorism'
2. As a security/defense analyst, try to find out the hot zone of terrorism.
3. What security issues and insights you can derive from EDA

## Data Overview

The dataset consists of 181,691 rows and 135 columns. The only important columns I use :

- Year
- Month
- Day
- Country
- State
- City
- Latitude

- Longitude
- Attack Type
- Number of Killed
- Number of Wounded
- Target
- Terrorist Group
- Target Type
- Weapon Type

## Data Cleaning

Several steps were taken to clean the data and handle missing values:

### 1. Filling Missing Values:


- The missing values in the "Killed" and "Wounded" columns were filled with the mean of the respective columns.
- The missing values in the "city" and "state" columns were filled with the mode (most frequent value).
- Rows with missing values in the "latitude," "longitude," and "Target" columns were dropped.

### 2. Checking for Duplicates:

- Duplicated rows were checked using the `duplicated()` function and removed if necessary.

## summarizing the findings

- The country with the most attacks: Iraq
- The city with the most attacks: Baghdad
- Year with the most attacks: 2014
- The month with the most attacks: 5
- The group with the most attacks: Taliban
- Globally Most of the terrorist attacks happened in the Middle East & North Africa' followed by 'South Asia' and 'South America'.
- 'East Asia', 'Central Asia', and 'Australasia & Oceania' can be considered the most peaceful regions in the world.
- In almost half of terrorism cases, Bombing or Explosion is used as the primary attack type.
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- Other than Bombing there 'Armed Assault', 'Assassination', 'Kidnapping' etc also used as famous attack types.
  - There are very less cases of 'Hijacking', 'Barricade Incidents', and 'Unarmed Assault' in terrorism.