**EXPLORATORY DATA ANALYSIS(EDA) REVIEW ON GLOBAL TERRORISM DATASET**

In this Exploratory Data Analysis (EDA) review, I have performed various data exploration and visualization tasks on the Global Terrorism dataset.

Let's go through each step and its results:

* ***Importing necessary libraries:*** The required libraries for EDA, such as Pandas, NumPy and Matplotlib, have been imported.
* ***Reading the dataset:*** The Global Terrorism dataset has been read using the read\_csv function, and encoding issues have been handled using the 'ISO-8859-1' encoding.
* ***Describing the statistical view of the data:*** The describe() function is used to get a statistical overview of the dataset, which provides summary statistics for numerical columns like mean, standard deviation, min, max, etc.
* ***Finding the shape of the dataset:*** The shape attribute is used to determine the number of rows and columns in the dataset. It contains 1210 rows and 135 columns.
* ***Analysing the data types of the columns:*** The info() method is used to display the data types and non-null counts for each column. The dataset has a mixture of float, integer, and object (string) data types.
* ***Displaying the columns***: The columns attribute is used to list all the column names in the dataset.
* ***Viewing the total number of columns:*** The columns.nunique() method is used to get the count of unique columns in the dataset, which is 135.
* ***Taking only the relevant columns for analysis:*** Some specific columns related to the analysis are selected and stored in a new DataFrame called 'terrorism'.
* ***Renaming the columns:*** Column names are renamed for better understanding using the rename() method.
* ***Handling missing values:*** The number of missing values for each column is checked using isnull().sum(). Then, missing values in specific columns (Targettype, Target, Province\_State, City, Attacktype, Gang\_name, Weapon) are filled with the string 'Unknown'.
* ***Statistical Description of the dataset:*** The describe() method is used again to get the statistical description of the 'terrorism' DataFrame after handling missing values.
* ***Top 5 affected Regions, Countries, States, Cities, Attack Types, Gang Names, and Weapon Types:*** These are obtained by using the value\_counts() method and displaying the top 5 results for each category.
* ***Most Attacks Happened and its count:*** This section prints the most frequent values and their corresponding counts for various columns like 'Country', 'City', 'Region', 'Province\_State', 'Year', 'Month', 'Day', 'Gang\_name', 'Weapon'.
* ***Data Visualization:*** Several visualizations are created to gain insights from the data:
* ***Attacks by Day and Month:*** Two count plots are created to visualize the distribution of attacks over days and months.
* ***Attacks by Region and Country:*** Two count plots are created to visualize the distribution of attacks across regions and countries.
* ***Attacks based on Attack Type and Target Type:*** Two count plots are created to visualize the distribution of attacks based on attack types and target types.
* ***Attacks by Year:*** A count plot is created to visualize the distribution of attacks over the years.

Overall, the EDA process provides a comprehensive understanding of the Global Terrorism dataset and helps in identifying patterns and trends in terrorist activities worldwide.

The visualizations enhance the insights and facilitate the presentation of findings in a more accessible format.