**Global Terrorism Analysis**

By: Gyanveer Meena

**Abstract:**

The entire world in today’s time is highly undergoing through terrorism. This topic not only includes the incessant obstacles thrusting in the path of global progress but also a deep-down effect on development of every county.

Here we have an impactful dataset drawn from Global Terrorism Database which comprises of data of all the terrorist attacks taken place around the world from 1907 to 2017. It includes more than 180000 attacks and a big range of massacre. It has distressed the political and economic stabilities on worldwide level.



Here our study can help understand what are the basic factors riding behind this growing problem. And some core points are milestones to take a proper action to reduce this problem at some extent

1. **Problem Statement**

Data provided here is big source of record of continuous terrorist activities. Here we have to provide a helpful data analysis for having multilateral initiatives in response to terrorism. The followingly points are some major questions which we need to answer are:

1. The most active terrorist group
2. The most used attack type
3. The most attacked country
4. The most attacked regions
5. The most attacked city
6. The correlation of years and terrorist activities
7. The calculation of people killed
8. The calculation of people wounded
9. **2.Introduction**

### The International growing terrorist activities have affected the life and nature around ourselves. It has badly affected tourism and weakened the economic sphere of the gross development. .

### This Exploratory data analysis is bringing a helpful report to understand in which aspects strong actions are needed to be taken. We can dig the ground deep to find a synthesized solution of this growing terrorism.

**3.Libraries Used**

* **Numpy**: I have used the numpy library for the numerical analysis and better calculations.
* **Pandas**: I have used the pandas for the analysis and manipulation and of better representation
* **Matplotlib**: I have used matplotlib for data visualization and graph plotations.
* **Seaborn**: I have used seaborn for the better visualizations and to use more colourful graphs.

**4. EDA Analysis**:

**1.Data cleaning:**  
I have loaded the data into my drive and then loaded into the google colab using pandas library.

**2.Data Cleaning:**

The major part of the dataset is null values which causing unnecessary blockage in processing the necessary columns. Therefore its required to identify the columns containing null values and then drop them.

**3. Deleting Unwanted Columns:**

In this step we will observe the columns of the dataset minutely and eliminate those columns which don’t have much to do with our topic. It will help to smoothen our analysis. We are almost near to get our final dataset!

**4. Renaming The columns:**

Now finally we have set all the columns. And now it’s time to rename the column to make the study easier.

‘eventid':'event\_id',

'iyear':'year',

'imonth':'month',

'iday':'day',

'approxdate':'date',

'country\_txt': 'Country',

'region\_txt': 'region\_wise',

 'provstate': 'state',

'attacktype1\_txt': 'attack\_type',

'targtype1\_txt': 'target',

'gname': 'organisation\_name',

'motive':'Motive',

'weaptype1\_txt':'weapon\_type',

'nkill': 'killed',

'nwound': 'wounded'

**5.Data Analysis**

**5.1 Region wise attacks**

* The data consists of many type of activities

and Region wise attacks is on of them.

* From the EDA analysis we came to the consultation that the that **Middle East and North Africa** the greatest number of attacks followed by **South Asia.**
* **Australasia & Oceania region** have the lowest number of attacks.
* **Total casualties:**

Middle East and North Africa had **3,51,950** total casualties recorded.

On second spot South Asia had **2,42,679**.

The lowest number of casualties are **410** from Australasia & Oceania.

* **Total number of people killed:**

Highest region with the total number of people killed is **Middle East and North** Africa **1,37,642.**

The region with lowest killed people is Australasia & Oceania with **150** people.

* **Total number of wounded people:**

Highest region with the total number of wounded people is **Middle East and North Africa** with **2,14,308** people**.**

The region with lowest wounded people count is in Australasia & Oceania with **260** people.

**5.2 Country wise attacks**

From the dataset we also derived the country wise attacks all over the world from 1970 to 2017.

* The county at the top with the greatest number of attacks is **Iraq** with the 24,636 attacks over the period of time.
* We can say that the **Iraq** is the hotspot country of the terrorism.
* Country on second place is Afghanistan with **83,661** attacks till 2017.

**5.3 City wise attacks**

* From the data set we came to the conclusion that city with the greatest number of attacks is **Baghdad** with **7,589** number of attacks
* The city on second number is **Karachi** with **2,625** and here we can see the difference between first and second place is huge.
* We can also conclude from this data is that City **Baghdad** is the hotspot city of the world.

**5.4 Casualties, Killed and Wounded People (1970 to 2017)**

* **Region Wise casualties, killed and wounded people.**
  + The data set contain all the information about the killed and wounded number of people.
* Highest number of total casualties happened in **Middle East and North Africa** and the number is **3,51,950** that is a huge number followed by **South Asia** with **2,42,679** casualties.
* The highest number of killed people also in **Middle East and North Africa** and the number is **1,37,642** followed by South Asia with **1,01,319** number of killed people.
* Highest number of wounded people is also from **Middle East and North Africa** and the number is **214308** followed by South Asia with **1,41,360** number of wounded people.
* **Country Wise casualties, killed and wounded people.**
  + The data set contain all the information about the killed and wounded number of people all over the countries.
* Highest number of total casualties happened in **Iraq** and the number is **24,636** followed by Pakistan with **14,368** casualties.
* The highest number of killed people also in **Iraq and** the number is **78,589** followed by Afghanistan with **39,384** number of killed people.
* Highest number of wounded people is also from **Iraq and** the number is **1,34,690** followed by **Afghanistan** with **44,277** number of wounded people.
* **City Wise casualties, killed and wounded people.**
  + The data set contain all the information about the killed and wounded number of people all over the cities.
* Highest number of total casualties happened in **Baghdad** and the number is **77,876** followed by **New York City** with **19,619** casualties.
* On the top of the list of killed people, the number is **22,647** and thing to notice that we don’t know the cities of that peoples. The second number city is Baghdad with **21,151** killed people.
* Highest number of wounded people is from **Baghdad city** and the number is **56,725** followed by New York City with **16,781** number of wounded people.

**5.5 Attacks According to year wise.**

* The data is collected from 1970 to 2027 and have all the attacks details from this period.
* The highest number of attacks happened in 2014 and the number is **16,903**.
* The attacks slowly started to increase from 1972 until about 1994 where by the attacks graph goes downward and from 2005 the attacks again started raising till 2014 and the terrorist attacks slowly decreased.
* The lowest number of attacks recorded in 1972 and the number is 471.

**5.6 Number of attacks by terrorist organisations.**

* I have analysed the attacks of the terrorist organisations from 1970 to 2017 and the interesting facts came to know that on the top of the table the number is **82,782** and we do not know by whom these attacks happened.
* The terrorist organisation we know, Taliban caused the greatest number of attacks and the number is **7,478** followed by Islamic state **of Iraq and the Levant (ISIL)** with **5,613** number of attacks.

**5.7 Most used Methods of Attacks**

* I have analysed the data of most used methods of attacks.
* The most favourite method of attack of terrorist is **Bombing/Explosion** and **Armed Assaults.**
* The least used methos of attack is **Hijacking** and **Hostage Taking**.

**5.8 Casualties, Killed and Wounded People by different methods of attacks (1970 to 2017)**

* Highest number of casualties is caused by **Bombing/Explosion** and the number is **5,30,007** and the number is huge.
* Method of attack caused the greatest number of killed people is **Armed Assault** and the number is **1,60,297**.
* Method of attack caused the greatest number of wounded people is **Bombing/Explosion** and the number **3,72,686.**

**5.9 Terrorist Organisations of India**

* The most active terrorist from the period of 190 to 2017 was **Communist Party of India - Maoist (CPI - Maoist)**
* The most favourite attack type if Indian terrorist organisations is **Bombing/explosion** and **Armed Assault** and least used method is **Hijacking** and **Hostage**.

**6. Effects on India and neighbouring Countries.**

Our country India was also badly affected by this massacre. Total **10,491** people were killed.

Whereas Pakistan stands on the second number in human loss. **12,756** people were killed in these attacks. Whereas in Afghanistan **10,871** people were killed.

To get rid of such huge problem it’s very important to understand key factors threshing to-wards this problem. As it has been a kind of dead lock which is pushing the developing countries down and making them handicapped from standing in the rows of the other developed countries.

**7. Conclusion:**

The data representation and visualization has played a big role to come to a solid report. Our thorough data studies helped us in understanding that with increase in technologies and weapons the kills have increased and the attacks have taken place very frequently. In the row of continuous attacks the countries which has the most attacks is **‘IRAQ’** and the one with most deaths is also Iraq in May 2014. The terrorists used **Bombing/Explosions** to kill the big mass at one time.

The gang which made maximum number of attacks is **‘TALIBAN’**. This gang attacked at multiple places and the country which was mostly attacked by this group is **‘AFGANISTAN’**.

The group which caused maximum deaths is **‘TALIBAN’**

They used **Bombing/Explosion**  Armed Assault and

Hostage Taking (Kidnapping) to kill the people.

Taliban is the most mischievous gang in early 20's and have done most number kill till date

and

They used Explosives and vehicle-borne explosives for killing people. So, if we control on the illegal

transportation of weapons, we can reduce the possibility of upcoming wars.

**References:**

Geeksforgeeks

Stack Overflow