Global Terrorism Analysis

Capstone Project - I

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Basic Data Information

Dimensionality

The data we used for the analysis is taken from Global Terrorism Database (GTD) and we got total **135 columns and around 181691 records**

Time

47 years of terrirism data taken into account for this analysis. That data taken from **1970 to 2017**

Countries

As we the taken for the analysis consist of total **204** countries across the globe

Data preparation

Missing values → Basic Processing → Feature selection

Missing value treatment

- We had almost 50% of columns missing above 80% data, so we dropped those columns
- We filled some features using most occurred value which is mode

Replacing and Renaming

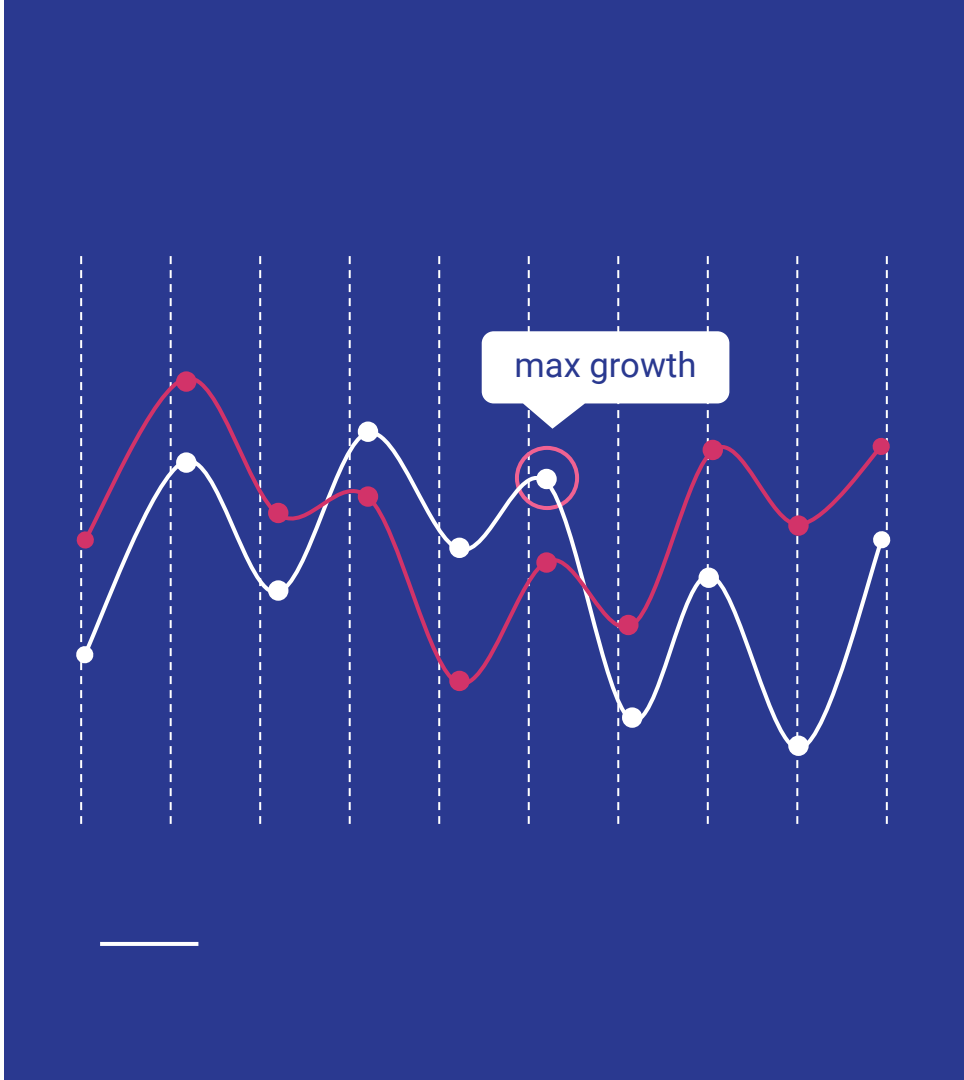
- Replaced some values with original types
- Renamed columns for the better interpretation of while analysis

Required features

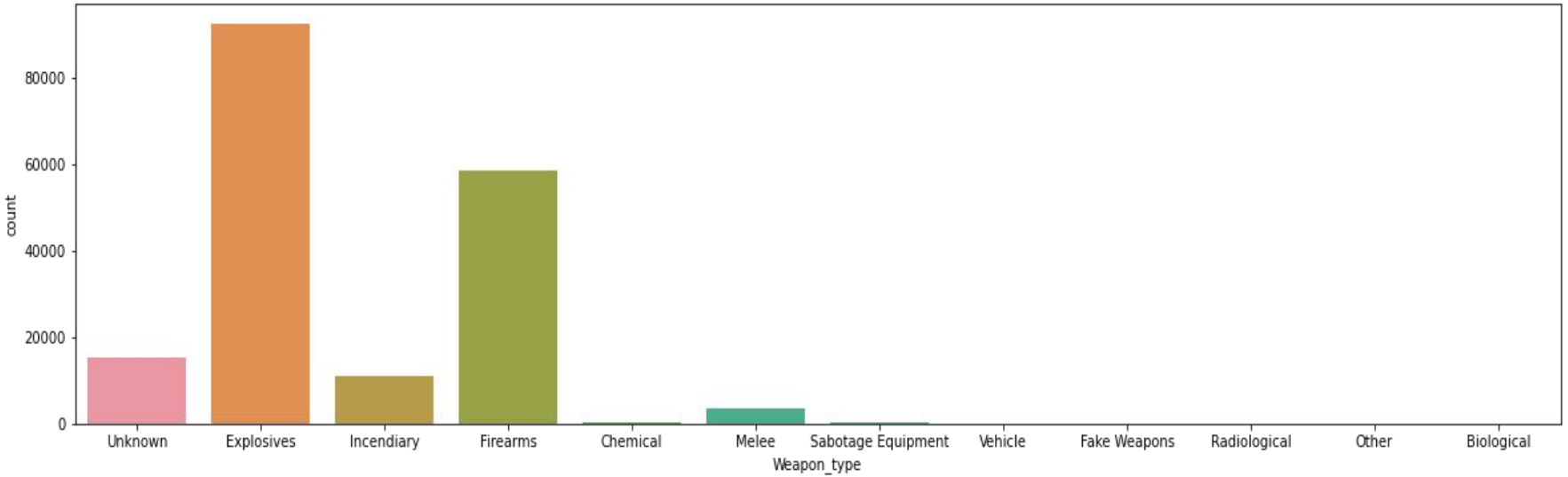
- Selected only 12 required features for the analysis based on intuition and completeness of data
- Further study is based on these selected 12 features

Visualization

Exploratory Data Analysis

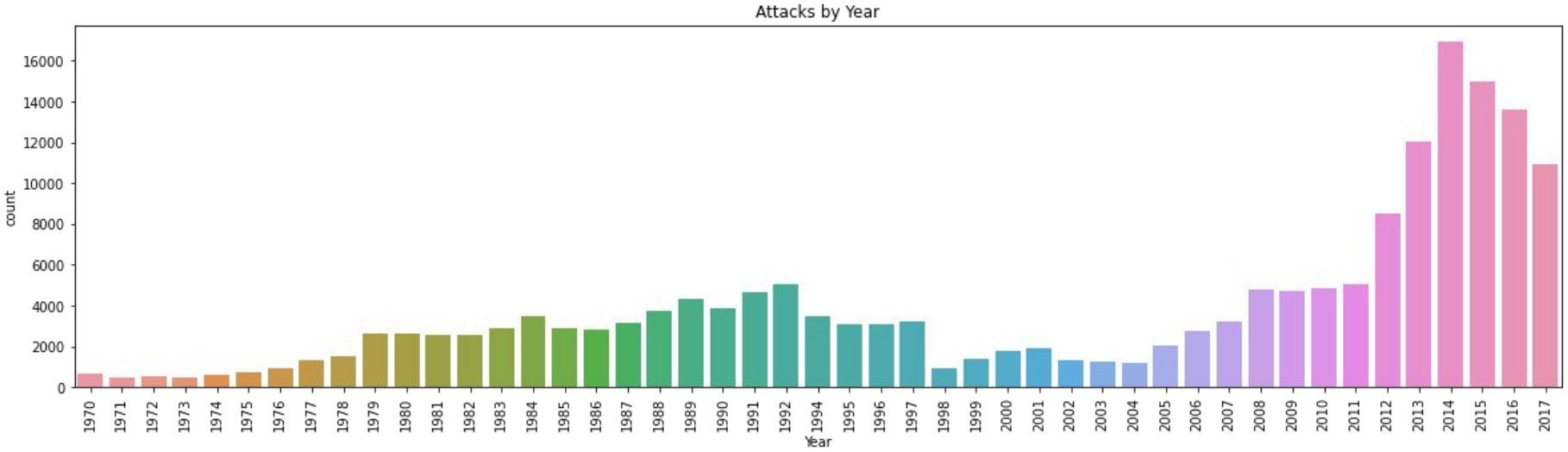


Weapons used in terror attacks



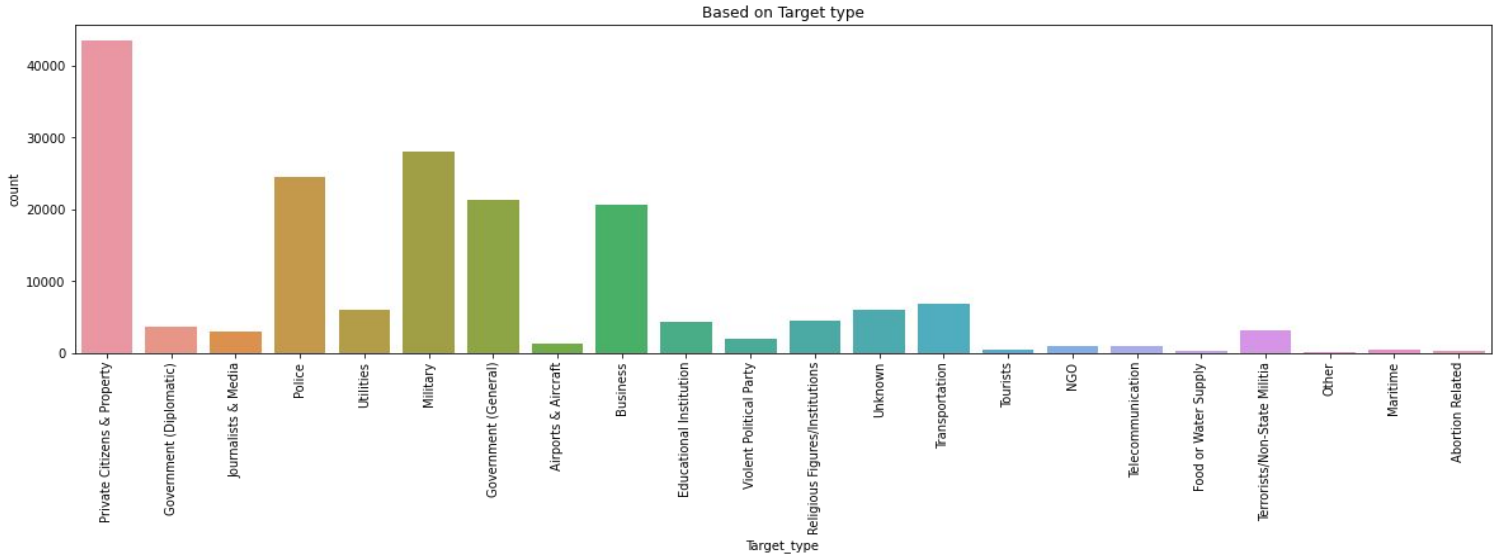
- From above fig we can see that most used weapon type for terror attach are **Explosives**
- As we can also conclude that **Biological weapons are least used** type when it comes to terror attack

Attack Trend Year-wise



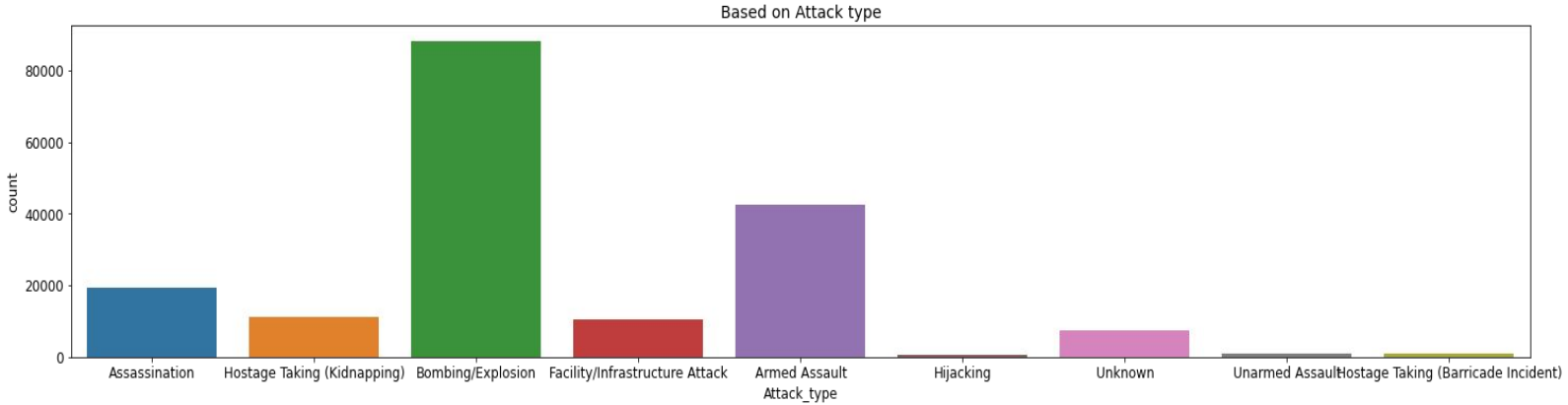
- Most attack happened in **2014** as we can see in the graph
- If we see the trend, then from **1970 to 1992** attacks were linearly increasing and they dropped till 2004 and again **increased drastically and linearly**

Targeted types by terrorists



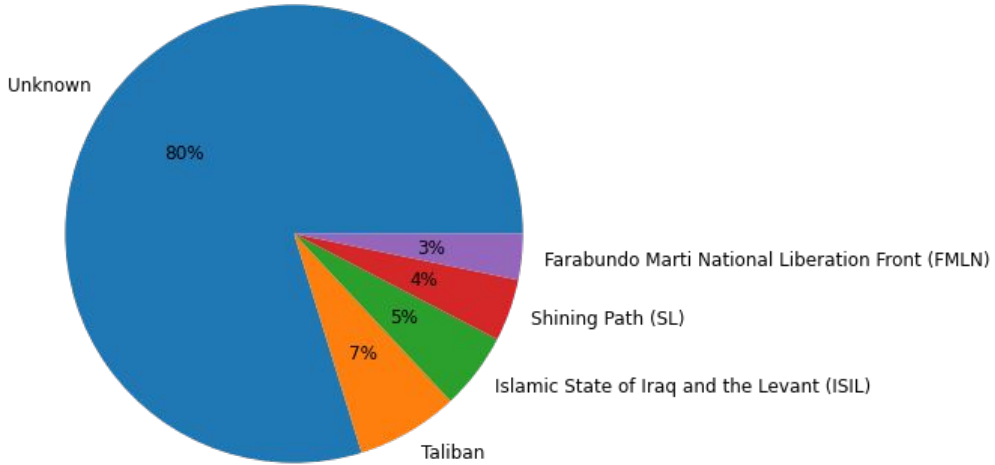
- As we can clearly see that **private citizens and properties are mostly targeted** by terrorist, may be because these are most easily accessable places than the rest
- Also **police and military are the second most targeted** types of terrorists.

Attack type used



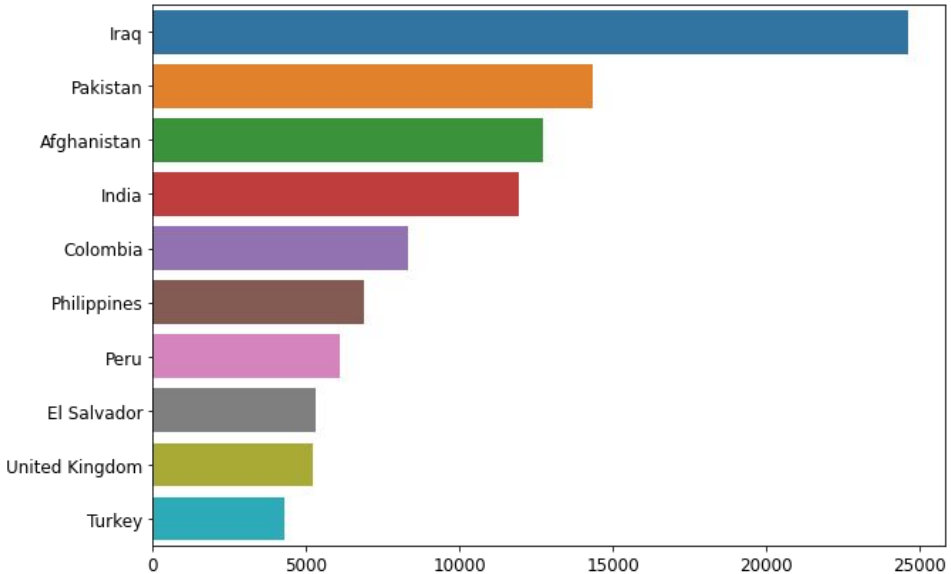
- As we can see most attack types used by terrorists are armed **assaults and explosives**
- Also, we can see some attack types unarmed also

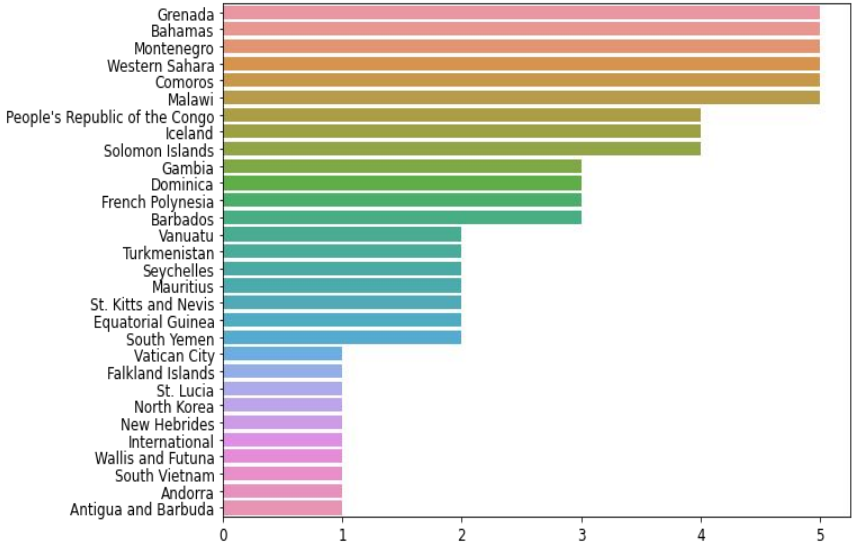
top 5 gangs



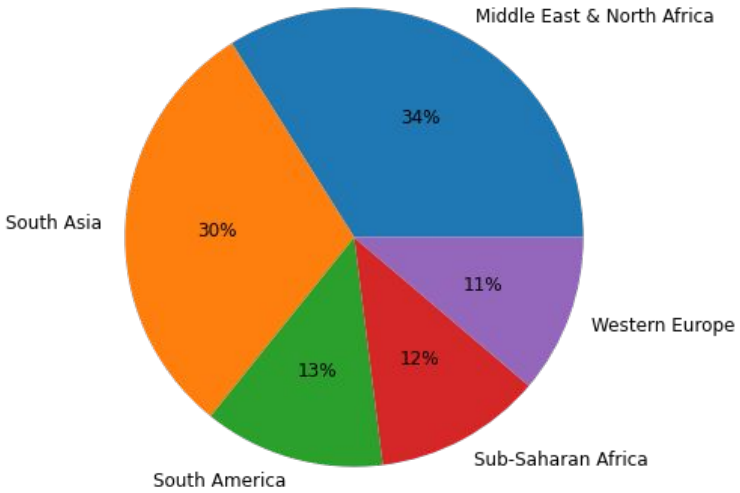
- As seen in figure below we can see that around **80% attacks done by unknown terrorist groups**
- Also we can see that second most attacks done by **taliban gang**

Top most and least countries as per # attacks





Region wise attacks distribution



Thanks