**Global Terrorism Analysis**

**Project Summary**

The Global Terrorism Database is a comprehensive dataset that contains information on terrorist attacks worldwide from 1970 to 2017. The dataset has 181,691 observations and 135 variables, covering details such as the date, location, type of attack, target type, weapon used, and casualties. The dataset was collected from various sources, including news articles, government reports, and public information.

The dataset requires extensive data cleaning and preprocessing to make it usable for analysis. The data contains missing values, inconsistent values, and redundant information, which needs to be addressed before conducting any analysis

I have completed a data analysis and visualization project using a global terrorism dataset. I used various libraries including NumPy, Pandas, Matplotlib, Seaborn, and Plotly to gain insights into the data.

First, I explored the number of global attacks per year, the types of terrorist attacks, and created a bar chart showing the number of bombings per year. Then, I created a cross-tabulation of attacks by year and region, and plotted it as a bar chart. Additionally, I created a bar chart showing the count of attacks by target type and the number of terrorist attacks in each country.

Next, I calculated the failure rate of terrorist attacks by country and identified the top 10 countries with the highest failure rate of attacks. I plotted the failure rate of the top 10 countries and also calculated the success and failure rates of terrorist attacks by country.

Furthermore, I filtered countries with more than 5 attacks and ranked them by failure rate, and prepared the data for analysis on Afghanistan. In this analysis, I included the top 5 terrorism cities, a plot of suicide rate, a plot of victims through the years, and a plot of terrorism weapons.

Overall, this project allowed me to gain valuable insights into global terrorism trends and patterns using data analysis and visualization techniques

**MY CONTRIBUTION**

I contributed to this project by providing my domain knowledge and expertise in data analysis. I actively participated in the data cleaning process, Identifying and handling missing or incorrect data.

During the exploratory data analysis, I suggested different types of visualizations and provided insights into the trends and patterns observed in the data. I also helped in interpreting the results and drawing meaningful conclusions based on the analysis performed.

My contributions were crucial in Identifying the key factors contributing to global terrorism and helped to create a better understanding of the overall impact of terrorism worldwide.