Tech Saksham

Case Study Report
Data Analytics with Power BI

"Global Terrorism Dataset

Analysis "

"Nanjil Catholic College of Arts and Science,

Kaliyakkavilai"

NM ID	NAME
6EF4C3B3B5CF8DF9A64401A7E21301DF	AFIN R S

Trainer name: R UMAMAHESHWARI

Master Trainer: R UMAMAHESHWARI

ABSTRACT

In the digital age, data has become an invaluable asset for businesses. The proposed project, "Global Terrorism Dataset Analysis" aims to leverage PowerBI, a leading business intelligence tool, to analyze and visualize the impact of terrorism across the world. This project will enable us to identify the weapons utilized, assess their impact on terrorism-affected areas, and implement effective mitigation measures.

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INTRODUCTION

Problem Statement

Terrorism is the use of violence and intimidation, especially against civilians, in the pursuit of political, ideological, or religious goals. It is a tactic used by individuals or groups to achieve their objectives by creating fear and causing disruption. Terrorism can take many forms, including bombings, assassinations, hijackings, and cyberattacks. It can be carried out by state actors or by non-state actors, such as terrorist organizations or extremist groups. The impact of terrorism is far-reaching, as it can cause physical harm, psychological trauma, and economic damage. However, the problem of terrorism remains a significant global challenge, and efforts to address it must be ongoing and multifaceted

Proposed Solutions:

- Success rate by type of attack
- Success rate by target type
- Success rate by weapon type
- Success rate by country
- Success rate by region
- Success rate by name of the group
- Total attacks by year
- Most used weapon
- Maximum Attacks
- Total targets
- Most deadly groups

Advantages:

- ✓ To effectively combat terrorism, it is crucial to analyze and understand its evolving trends.

SERVICES AND TOOLS REQUIRED

Services Used

Data Collection: When terrorism occurs, data is collected for future reference and analysis.
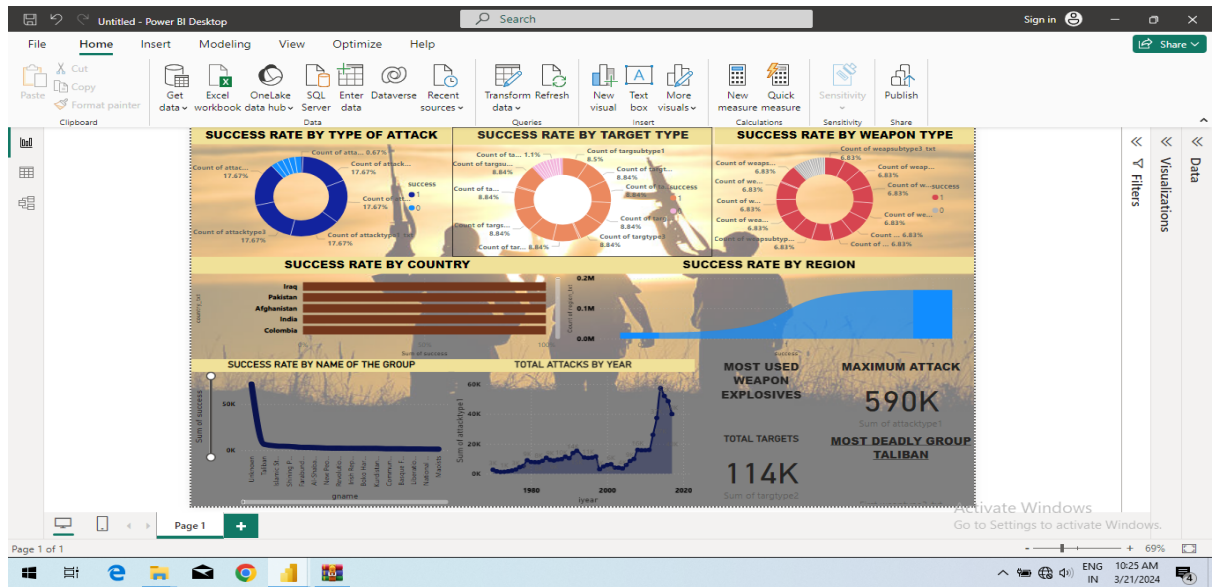
Tools and Software used

Tools:

PowerBI:Power BI is a collection of software services, apps, and connectors that work together to turn your unrelated sources of data into coherent, visually immersive, and interactive insights. Your data might be an Excel spreadsheet, or a collection of cloud-based and on-premises hybrid data warehouses.

PROJECT ARCHITECTURE

- Data Collection
- Data Storage
- Data Processing
- Machine Learning
- Data Visualization
- Data Access

DASHBOARD:

CONCLUSION

The project "Global Terrorism Dataset Analysis" using PowerBI has successfully demonstrated the potential of data analytics in maintaining peace and harmony of country.The interactive dashboards and reports have offered a comprehensive view of terrorism across the world.The project has also highlighted the importance of data visualization in making complex data more understandable and accessible.The use of PowerBI has made it possible to present data in a visually appealing and easy-to-understand format, thereby aiding in better decision-making.

FUTURE SCOPE

The future scope of this project is vast. With the advent of advanced analytics and machine learning, PowerBI can be leveraged to predict future trends based on historical data. Integrating these predictive analytics into the project could enable the country to make a decision to prevent terrorism.Furthermore, PowerBI's capability to integrate with various data sources opens up the possibility of incorporating more diverse datasets for a more holistic view of customers.As data privacy and security become increasingly important, future iterations of this project should focus on implementing robust data governance strategies.

REFERENCE:

https://www.kaggle.com/datasets/START-UMD/gtd

https://ourworldindata.org/terrorism

https://youtube.com/live/AlotKdK_CTI?feature=share

LINKS

GITHUB LINK:

https://github.com/Afin2002/Global-Terrorism-Dataset-Analysis.git