

Assessment – Business Intelligence & Data Visualization (CA)

Cybersecurity Threat Intelligence & Response Dashboard

Module name : Business Intelligence and Visualization

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Project Background and Intended Users



Background :

Cyber Secure Analytics Pvt. Ltd. is a leading cybersecurity consulting firm focused on helping organizations around the world identify, understand, and defend against evolving cyber threats



User :

The dashboard is designed for the **Chief information security officer**.
The CISO is responsible for creating and managing the company's cybersecurity plan and making sure it supports the organization's business goals.



Expectations :

- 📊 Clear trends of cyber attacks over the years , ⌚ How quickly incidents are being resolved
- 💰 Financial and operational impact of each attack , 🌐 Countries and industries that are most affected

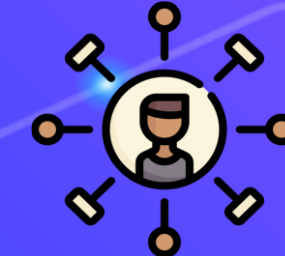
Dataset Overview and Key Enhancements



Kaggle



3000
Incidents



10 Features







Created Measures

- **Average incident resolution time** : Shows how fast incidents were resolved on average.
- **Most frequent attack type** : Identifies the most common form of attack.
- **Slowest attack type**: Reveals which attack types took the longest to resolve

Calculated Columns

- **Attack Category** : Groups attack types into broader categories like Disruption, Infiltration, etc.
- **Severity Score** : Combines financial loss and user impact into one severity metric

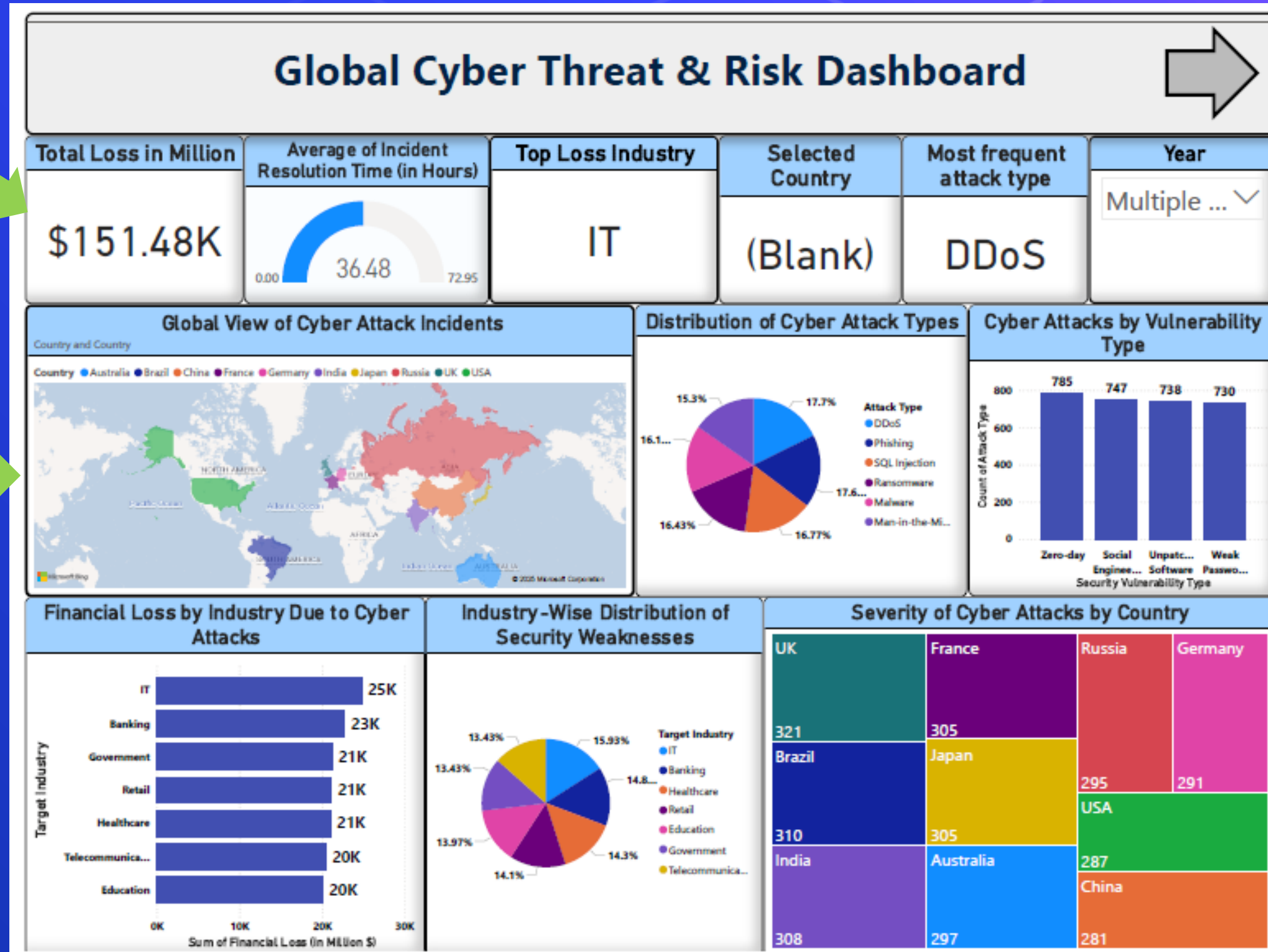
Dataset Attributes

-  **Geographical Info**
-  **Timeline Info**
-  **Attack Details**
Type , Source , Defence used
-  **Target Information**
Industry, Affected users, Vulnerability
-  **Financial Data**
-  **Response Info**

Dashboard Explanation

KPI cards :

key KPIs such as Total Loss in Million, Average Resolution Time, and Top Loss Industry



Global threat overview:

Map : Geographic distribution of attacks

Pie Chart: Attack types

Bar chart : Common vulnerability

Slicer :

Allows users to select one or more years from 2015 to 2024 to view time-based patterns and trends

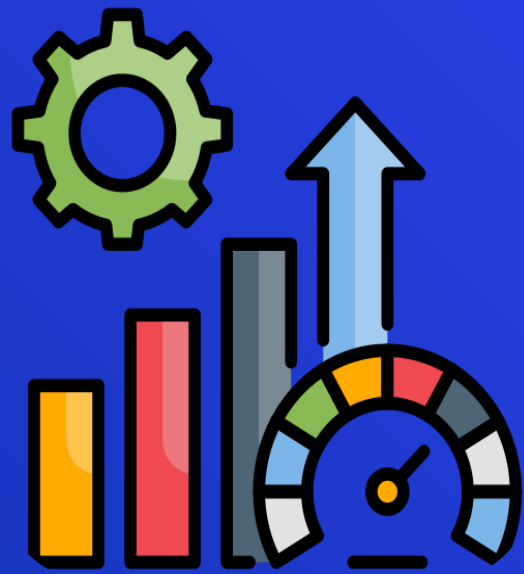
Risk and Impact Analysis:

Bar chart : Financial loss by industry

Pie chart : Industry wise distribution of weaknesses

Tree map : Severity of Cyber Attacks by Country

Benefits and Key Learnings



The dashboard helps users:

- Helps the CISO see which countries and industries are most at risk.
- Shows the most common types of cyber attacks : which threats to focus on for prevention, training, or system upgrades.
- Monitor which types of vulnerabilities and attacks are most common.
- Make data-driven decisions for cybersecurity planning.



Learnings from the assignment:

- learned how to design a dashboard that is easy to read and useful for decision-makers like CISOs.
- Learned about DAX measures and calculated columns to make the dashboard interactive and informative.
- learned how to better organize and present data clearly, making it easy to understand.