### **Project Title:**

Analysis of Global Military Expenditure Trends (1960–2018)

### **Project Objective:**

The objective of this project is to analyze global military spending patterns from 1960 to 2018 using historical expenditure data. The analysis aims to uncover trends over time, identify top and bottom spenders, evaluate regional and country-level priorities, and assess spending growth across decades.

### **Deliverables:**

* Combined actual + cleaned dataset (.xlsx)
* Exploratory Data Analysis (EDA) report (country-wise and year-wise)
* Visualizations using Tableau Public
* Final analytical report with insights
* GitHub repository containing all project files and documentation

### **Timeline:**

* **Days 1–2:** Data understanding and wrangling.
* **Days 3–9:** Exploratory Data Analysis (EDA) and question formulation
* **Days 10–13:** Dataset restructuring (wide to long format)
* **Days 14–15:** Short break
* **Day 16:** Finalized format conversion
* **Day 17:** Built and refined visualizations in Tabulae

### **Data Source:**

* **Source:** Kaggle – *Military Spending of Countries (1960–2019)*
* **Original Format:** Wide format (109 rows × 59 columns)
* **Final Format:** Long format (6,373 rows × 5 columns)
* **File Type:** .xlsx

### **Tools and Technologies:**

* **Google Sheets** – Data wrangling and cleaning
* **Google Docs** – Documentation and manual version tracking
* **Tabulae (Tableau Public)** – Interactive visualizations and dashboards
* **GitHub** – Project hosting, version control, and collaboration

### **Methodology Summary:**

* Addressed missing values using row-level missing percentage and filled gaps with average expenditure values (per country).
* Conducted EDA separately for countries and years, supported by statistical summaries and charts.
* Converted dataset to long format for advanced visual analysis.
* Explored decade-wise trends and global spending shifts

### **Project Role and Responsibilities:**

* **Analyst:** *Hadisa Fatima Syed* **Responsibilities:** Data wrangling, EDA, insight generation, visualization, documentation, and reporting