

# **PROJECT DOCUMENTATION**

## **CRIME INCIDENTS IN 2025**

### **1. Project Overview**

This project analyses the crime incidents data which focused on examining crime data to identify patterns, trends and key insights using data analytics tools. Initially, the dataset was cleaned and prepared in Microsoft Excel by handling missing values, organizing variables and performing preliminary analysis. After preprocessing, the data was imported into Power BI to create interactive dashboards and visualizations. The dashboard highlighted key metrics such as total crime incidents, crime type distribution, location-wise analysis, and time-based trends. This project demonstrates the practical application of data cleaning, analysis, and visualization techniques to support data-driven decision making and enhance public safety insights.

### **2. Tools Used**

- Microsoft- Excel
- Power BI

### **3. Dataset**

- Source: Crime Incidents In 2025
- Data contains:
  - Object id
  - Report Date
  - Offence
  - Method
  - X Block, Y Block, Etc

### **4. Steps Followed**

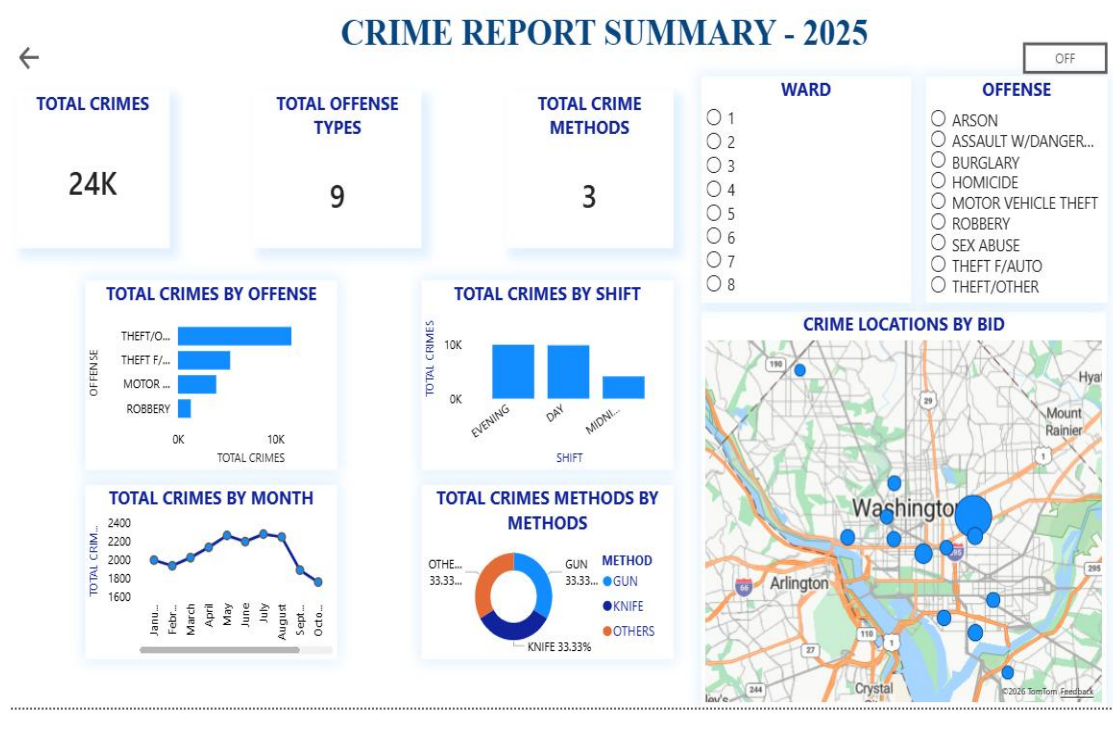
- Cleaned data in Excel:
  - a) Removed nulls/blanks
  - b) Changed the data type
  - c) Formatted the columns
  - d) Removed duplicates
  - e) Renamed column headers
  - f) Deleted unwanted columns

- Imported the cleaned data into Power BI
- Created DAX measures in Power BI
- Built dashboards using charts, slicers and KPIs

## 5. Key insights

- The analysis shows that a few specific crime types contributed to most incidents in 2025, indicating areas that require focused preventive measures.
- Certain locations are highly concentrated in central Washington, indicating major hotspot areas.
- Theft related offenses account for the highest number of reported crimes.
- Crime incidents peak during the **evening shift** compared to day and midnight shift.
- **July** recorded the highest number of crime incidents among all months.

## 6. Screenshot



## **7. Files included**

- Crime\_incidents\_in\_2025.xlsx - Cleaned data and basic analysis
- Crime incidents in 2025.pbix - Power BI dashboard file
- README.docx - Project description

## **8. Conclusion**

This project analysed Crime Incidents in 2025 by cleaning and preparing the dataset in Excel and Power Query, followed by creating an interactive dashboard in Power BI to visualize trends and patterns. The analysis identified key insights such as high crime locations, peak months, dominant offense types, and time-based crime patterns. Overall, the project demonstrates effective use of data cleaning, transformation, and visualization techniques to support meaningful data- driven insights.