

Crime Analytics Dashboard Report | India

1. Project Overview

This project presents an interactive Crime Analytics Dashboard built using Tableau. The dashboard analyzes crime data across Indian cities to identify trends, demographic patterns, temporal insights, and crime domain distribution. The goal is to demonstrate data analytics, visualization, and storytelling skills for portfolio and interview purposes.

2. Dataset Description

The dataset contains cleaned crime records including city, crime domain, victim demographics, time of occurrence, and total crime counts. Key fields used:

- City
- Crime Domain
- Victim Gender
- Victim Age
- Date & Time of Occurrence
- Year of Occurrence
- Total Records

3. Dashboard Components

- Total Crimes KPI: Displays the total number of recorded crimes.
- Crime Trend Over Years: Line chart showing crime trends over time.
- Crime by Gender: Bar chart showing victim gender distribution.
- City Crime Count: Bar chart ranking cities by total crimes.
- Victim Age Distribution: Age-wise crime analysis.
- Crime by Hour: Hourly crime pattern visualization.
- Crime Domain Share: Donut chart showing crime type distribution.

4. Interactivity Features

The dashboard includes filter actions that allow users to click on charts to filter the entire dashboard by city, gender, year, age group, and crime domain. Additional filters are provided for year range, city selection, age bins, hour, and crime domain.

5. Key Insights

- Crime peaks between 18:00 and 23:00, indicating higher risk during night hours.
- Violent crimes represent a significant share of total incidents.
- Delhi and Mumbai report the highest crime volumes.
- Working-age populations show higher victimization rates.
- Crime trends increased in recent years with noticeable peaks.

6. Recommendations

- Increase targeted policing during late-night hours in high-density cities.
- Allocate additional law enforcement resources to high-crime cities.
- Implement preventive programs for vulnerable age groups.
- Use predictive analytics for crime forecasting and planning.

7. Tools & Techniques Used

- Tableau Desktop / Tableau Public
- Calculated Fields and Aggregations
- Dual-Axis Donut Chart Technique
- Dashboard Filter Actions
- DATEPART functions for time extraction

- Dark-themed dashboard UI design

8. Conclusion

This project demonstrates the ability to transform raw data into meaningful insights using Tableau. The interactive dashboard enables dynamic exploration and data-driven decision-making, highlighting strong skills in data visualization and analytical storytelling.