

The background features several abstract blue shapes: a solid dark blue circle in the top left, a light blue semi-circle in the top right, a dark blue semi-circle in the bottom left, a light blue semi-circle in the bottom right, and a large light blue semi-circle on the left side. The main title is centered in a bold, dark blue, sans-serif font.

ELECTVIZ ELECTION DATA VISUALIZATION FOR MEDIA

Final Milestone report

By- Moumita Mukherjee

PROBLEM STATEMENT:

India's General Election data is vast, scattered, and unstructured, making it difficult for media professionals to analyze and compare results quickly. Existing static representations limit interactive exploration of trends. The Infosys ElectViz project addresses this by creating an interactive Power BI dashboard that unifies historical election data, enabling visual, comparative, and data-driven insights on party performance, vote share, and voter turnout.

PROPOSED SYSTEM

ElectViz is an interactive platform for visualizing election data, designed to support media analysis and reporting. Its architecture consists of four modules:

- **Data Collection:** Gathers data from official results and historical sources.
- **Preprocessing:** Cleans and models data for consistency and accuracy.
- **Visualization:** Builds interactive dashboards with maps, charts, and tables.
- **Insights Generation:** Provides analytics via dynamic filters, drill-throughs, and decomposition trees.
- **Key Features:** Dynamic filtering, party performance comparison, hierarchical analysis, and interactive visuals.

IMPLEMENTATION

1. Data Collection:

Collected and analyzed three key datasets — Lok Sabha results, Assets & Liabilities of candidates, and Party details — to capture political, financial, and constituency-level information.

2. Data Cleaning & Preprocessing

Cleaned and standardized data in Power Query Editor by removing duplicates, fixing inconsistent formats, and merging multiple CSVs. Created calculated columns like vote share and winning margin to enhance analysis accuracy.

3. Data Modeling :

Built relationships between Party, Candidate, and Constituency tables. Designed hierarchies (State → Constituency → Candidate) and created DAX measures for KPIs such as total seats won, party performance, and candidate wealth.

4. Visualization

Design Developed an interactive, multi-page dashboard. Used slicers, bookmarks, and drill-throughs for dynamic exploration.

5. Insights

The dashboard revealed correlations between candidate wealth and performance, highlighted state-wise winning trends, and provided clear, real-time insights for journalists. The project was uploaded to GitHub with documentation and visuals.

CHALLENGES FACED

1. Data Integration & Cleaning

The raw election dataset contained inconsistent constituency names, missing values, and formatting differences across states.

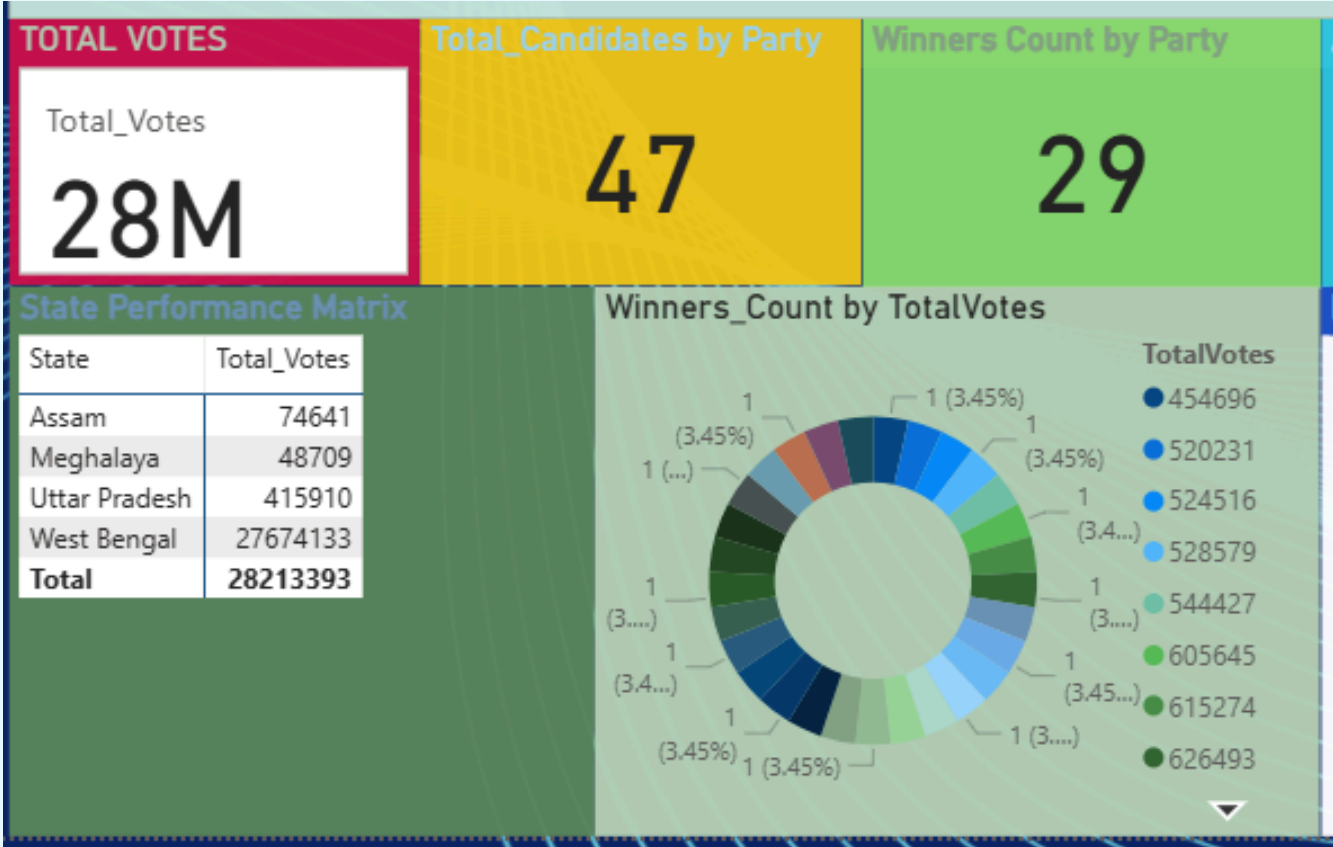
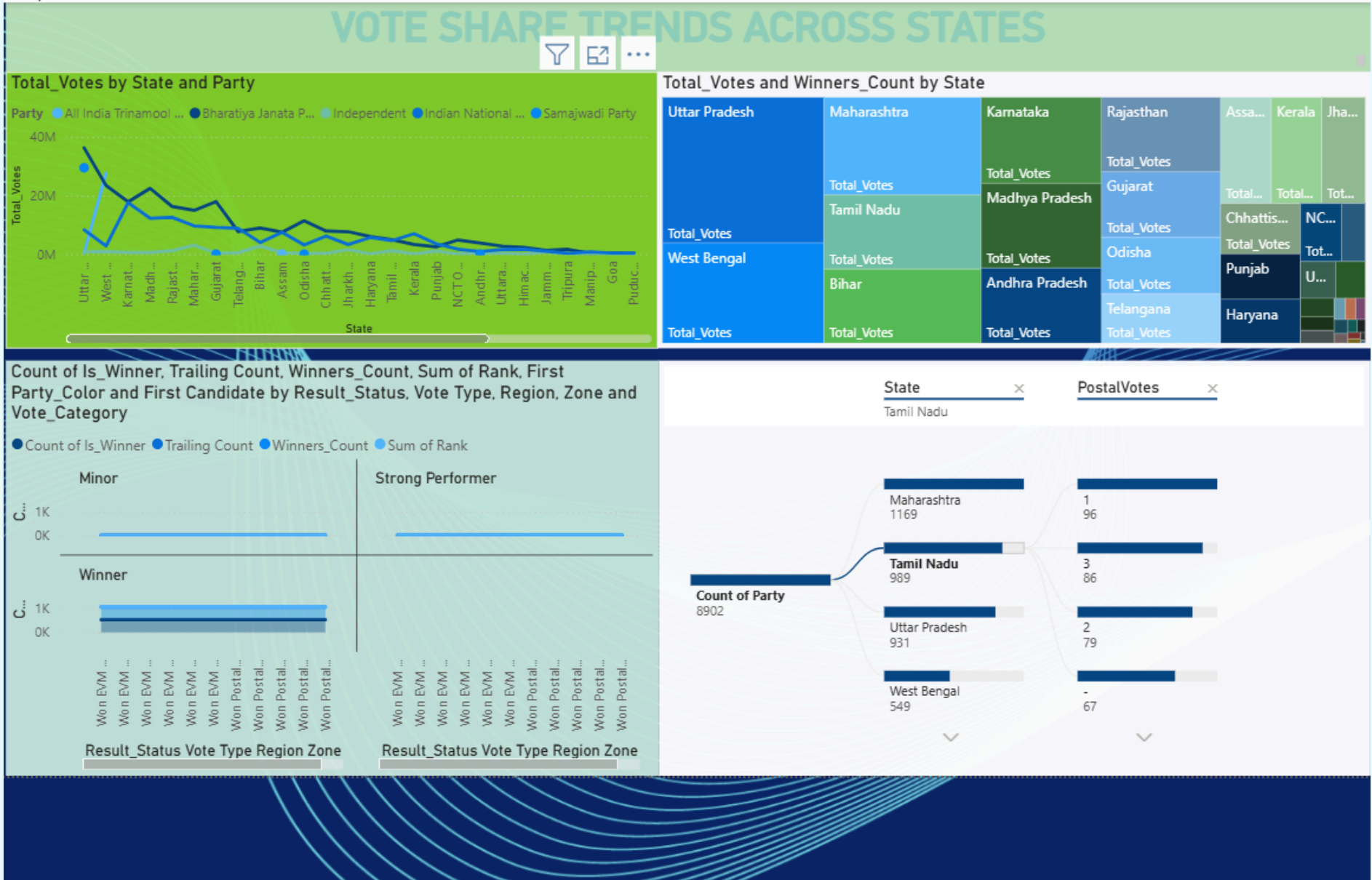
2. Technical Alignment in Power BI

Some members initially struggled with DAX functions and relationship modeling.

3. Communication & Time Management

Coordinating virtually while managing academic deadlines led to timing overlaps.

ANALYSIS



The background is a light blue gradient. It is decorated with various abstract geometric shapes in two shades of blue: a medium blue and a darker navy blue. These shapes include circles of different sizes, semi-circles, and quarter-circles, scattered across the corners and edges of the frame. The central text 'THANK YOU' is rendered in a bold, dark blue, sans-serif typeface, with the words stacked vertically.

**THANK
YOU**