Project Report: Lok Sabha Election Data Analysis

Problem Statement

The recent Lok Sabha election results provided a wealth of data that could offer valuable insights into voting patterns, party performance, and regional variations. However, the raw data is often overwhelming and difficult to interpret without proper analysis and visualization. There is a need for a comprehensive tool that can extract, analyze, and present this data in an accessible and insightful manner.

Solution

To address this need, a Power BI dashboard was created. This dashboard includes:

1. **Data Extraction**: Data was extracted from the official election results website (https://results.eci.gov.in).
2. **Data Coverage**: The analysis includes data from the following states and union territories:
    - Andaman & Nicobar Islands
    - Andhra Pradesh
    - Arunachal Pradesh
    - Assam
    - Bihar
    - Chandigarh
    - Chhattisgarh
    - Dadra & Nagar Haveli and Daman & Diu
    - Goa
    - Gujarat
    - Haryana
    - Himachal Pradesh
    - Jammu and Kashmir
    - Ladakh
    - Lakshadweep
    - Uttar Pradesh
    - Uttarakhand
    - West Bengal
3. **Dashboard Pages**:
    - **Home**: Provides an overview and navigation buttons to other pages.
    - **Summary**: Presents key insights and overall election statistics.
    - **Detailed Analysis**: Offers in-depth analysis with detailed visualizations and data breakdowns.
4. **Key Insights**: The dashboard provides at least 14 key insights (listed below), helping users to understand the election results comprehensively.

Key Insights

1. Winning Candidate by Gender
2. Total Votes by Party
3. Party Performance by State

4. Average Vote Percentage by Party
5. Female Winners
6. Male Winners
7. Total Seats Won by BJP and INC
8. Top Performing Candidates
9. State-wise Winning and Losing Count
10. Geographical Distribution of Votes
11. Winning Margin Analysis
12. Total Seats Won
13. Total Candidates
14. Total Seats Won by Leading Party

Flowchart

The flowchart below outlines the steps taken to complete this project: