

REPORT FOR ELECTORIAL ANALYSIS

1. Overview

The dataset comprises election results from parliamentary constituencies, including information on parties, constituencies, winning candidates, total votes, and margins.

2. Descriptive Statistics

Total Votes:

- **Mean:** 601,798
- **Median:** 586,044
- **Mode:** 692,832
- **Standard Deviation:** 166,787
- **Range:** 25,726 to 1,471,885

Margin of Victory:

- **Mean:** 243,444
- **Median:** 65,992
- **Mode:** 48.0
- **Standard Deviation:** 298,450
- **Range:** 48.0 to 1,175,092

3. Insights

Party Performance:

- **Top Party by Frequency:** Bhartiya Janata Party (238 constituencies)
- **Most Frequent Constituency:** Bhartiya Janata Party in Bathinda (11) (2 occurrences)
- **Top Total Votes by Party:** Indian National Congress (1,471,885)
- **Narrowest Winning Margin:** Shiv Sena (48 votes)

Voter Turnout and Margins:

- **Highest Voter Turnout:** Indian National Congress in Constituency (1,471,885 votes)
- **Lowest Voter Turnout:** Indian National Congress in Constituency (25,726 votes)
- **Largest Winning Margin:** Bhartiya Janata Party (1,175,092 votes)
- **Smallest Winning Margin:** Shiv Sena (48 votes)

Winning Candidate Characteristics:

- **Total Votes Distribution:** Majority of winning candidates receive between 400,000 to 800,000 votes.
- **Party Patterns:** Parties like Bhartiya Janata Party and Indian National Congress consistently lead in total votes across constituencies.

Margin Analysis:

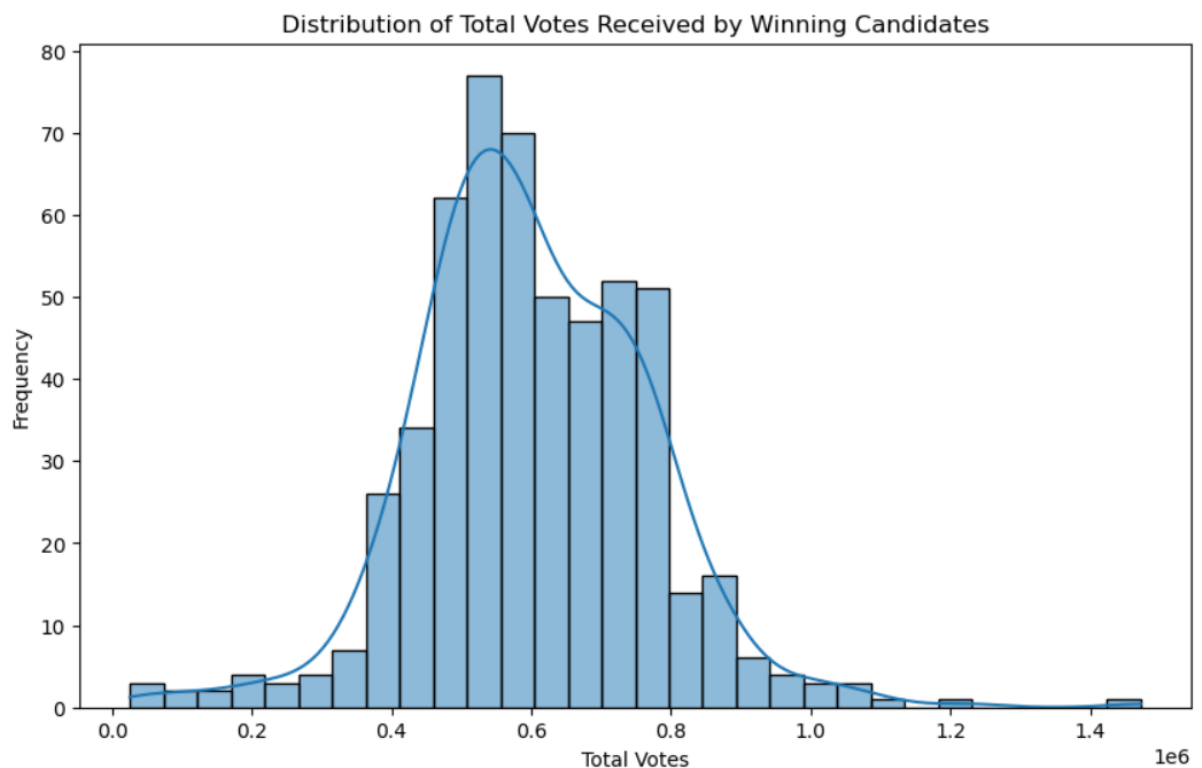
- **Correlation:** Positive correlation (0.66) between total votes and margin of victory.
- **Competitive Races:** Identified constituencies with narrow margins (e.g., Shiv Sena with 48 votes).

Parliament Constituency Insights:

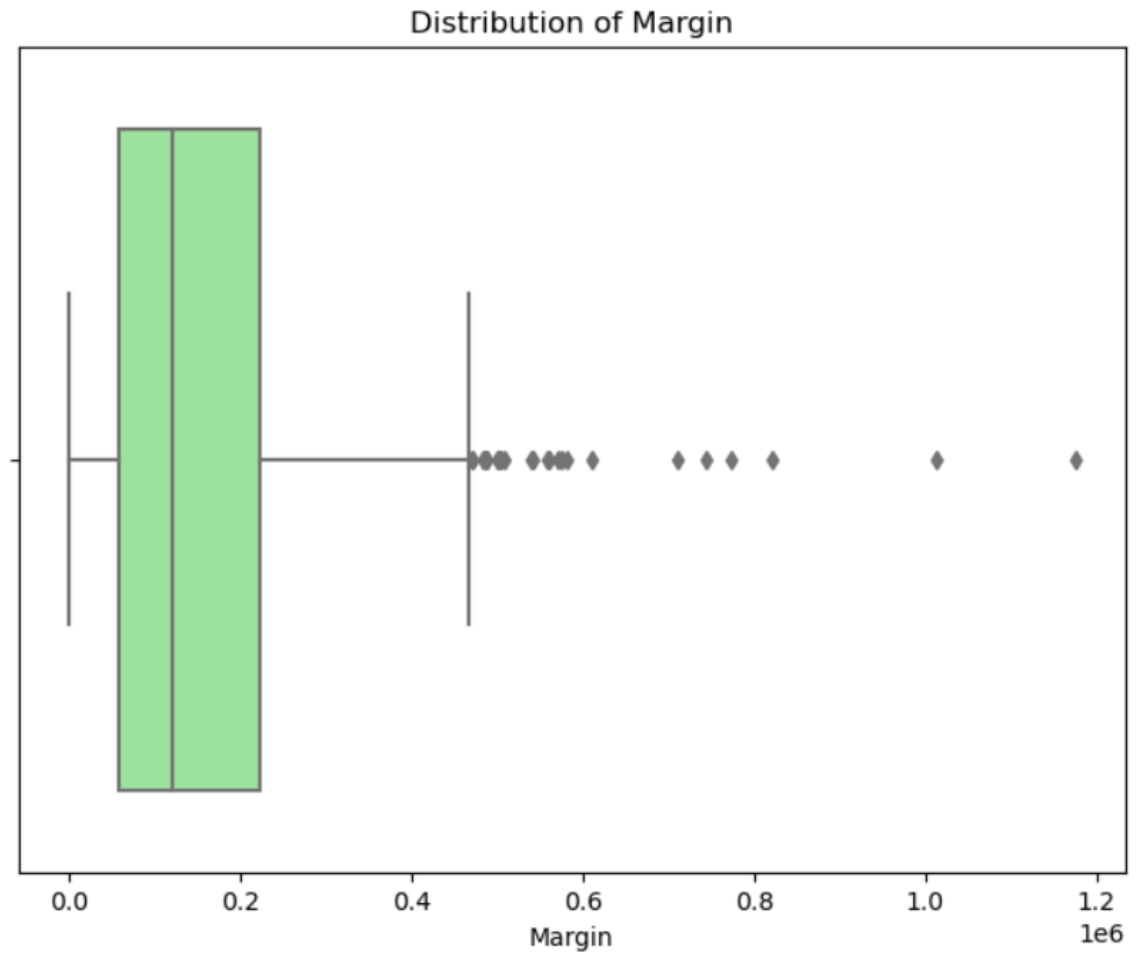
- **Party Distribution:** Even distribution of parties across constituencies, no clear dominance in any specific constituency.
- **Diverse Representation:** Majority of constituencies exhibit diverse party representation.

4. Visualizations

- **Histogram of Total Votes**



- **Box Plot of Margin**



- **Scatter Plot of Total Votes vs. Margin of Victory**

