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**Section:** B1

**Project Name:** Data analysis of Lok Sabha 2024 Election  
Results

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**Github Link:** <https://github.com/Ishita-Banerjee09/Lok-Sabha-2024-Result-Analysis>

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# **1. Introduction**

The Lok Sabha elections, held once every five years, are a crucial event in India's democratic process. The 2024 elections were pivotal, showcasing the political dynamics and voter preferences across the country. This report analyzes the election results, focusing on the general parliamentary outcomes and state-specific data for West Bengal.

## **What is Web Scraping?**

Web scraping is an automated method used to extract large amounts of data from websites. It involves fetching the web page content and parsing it to retrieve specific information. In this project, we utilized web scraping to collect election results data from the official Election Commission of India website. This technique enables us to gather comprehensive data efficiently and accurately, providing the foundation for our analysis.

## **Importance of the Lok Sabha Elections**

The Lok Sabha, or the House of the People, is the lower house of India's bicameral Parliament. It is composed of representatives directly elected by the people of India. The elections are significant as they determine the formation of the central government, influencing the country's governance, policy-making, and future trajectory.

## 2. Data Collection

### 2.1 General Election to Parliamentary Constituencies: Trends & Results June-2024

The general parliamentary election results were scraped from the Election Commission of India website. This data includes the number of seats won by each party across India. The URL used for scraping the data was:

<https://results.eci.gov.in/PcResultGenJune2024/index.htm#>

```

  ▾ General Election to Parliamentary Constituencies: Trends & Results June-2024

  Party Wise Results Status (Total PC - 543)

  [ ] import requests
      from bs4 import BeautifulSoup

      # URL of the Election Commission results page
      url = "https://results.eci.gov.in/PcResultGenJune2024/index.htm#"

      # Requesting the page
      response = requests.get(url)
      response.raise_for_status()

      # Parsing the HTML content
      soup = BeautifulSoup(response.content, 'html.parser')

      # Finding the relevant information
      results = {}
      for row in soup.select('table tbody tr'):
          cells = row.find_all('td')
          if len(cells) > 1:
              party = cells[0].get_text(strip=True)
              seats = cells[1].get_text(strip=True)
              results[party] = seats

      # Printing the results
      for party, seats in results.items():
          print(f"{party}: {seats}")

  Bharatiya Janata Party - BJP: 240
  Indian National Congress - INC: 99
  Samajwadi Party - SP: 37
  All India Trinamool Congress - AITC: 29
  Dravida Munnetra Kazhagam - DMK: 22
  Telugu Desam - TDP: 16

  ✓ Connected to Python 3 Google Compute I
```

## 2.2 Statewise Results – West Bengal

The state-wise results for West Bengal were also scraped from the Election Commission of India website. This data focuses on the number of seats won by each party in West Bengal. The URL used for scraping the data was:

<https://results.eci.gov.in/PcResultGenJune2024/partywiseresult-S25.htm>

▼ STATEWISE LOK SABHA 2024 RESULT - WEST BENGAL (TOTAL PC - 42)

Party Wise Results Status (Total PC - 42)

```
[3] import requests
    from bs4 import BeautifulSoup


    # URL of the Election Commission results page
    url = "https://results.eci.gov.in/PcResultGenJune2024/partywiseresult-S25.htm"

    # Requesting the page
    response = requests.get(url)
    response.raise_for_status()

    # Parsing the HTML content
    soup = BeautifulSoup(response.content, 'html.parser')

    # Finding the relevant information
    results = {}
    for row in soup.select('table tbody tr'):
        cells = row.find_all('td')
        if len(cells) > 1:
            party = cells[0].get_text(strip=True)
            seats = cells[1].get_text(strip=True)
            results[party] = seats

    # Printing the results
    for party, seats in results.items():
        print(f"{party}: {seats}")
```

 All India Trinamool Congress - AITC: 29  
Bharatiya Janata Party - BJP: 12  
Indian National Congress - INC: 1

✓ Connected to Python 3 Google Compute Engine

### **3. Data Analysis**

The data collected from both sources was processed and analyzed to extract meaningful insights. The analysis methods include calculating the total number of seats won by each party, the percentage of total seats, the average number of seats per party, and comparisons with previous election results.

## 4. Key Insights

### 4.1 General Election to Parliamentary Constituencies: Trends & Results June-2024

- ➡ Insight 1: The party with the most seats is Bharatiya Janata Party - BJP with 240 seats.
- Insight 2: There are 2 parties with more than 50 seats.
- Insight 3: There are 35 parties with less than 10 seats.
- Insight 4: The party with the most seats won 44.28% of the total seats.
- Insight 5: The average number of seats per party is 12.93.
- Insight 6: The median number of seats per party is 2.
- Insight 7: There are 17 parties with exactly 1 seat i.e. parties winning seats in single digits.
- Insight 8: Parties with more than 20 seats: Bharatiya Janata Party - BJP, Indian National Congress - INC, Samajwadi Party - SP, All India Trinamool Congress - AITC, Dravida Munnetra Kazhagam - DMK.
- Insight 9: The party with the second most seats is Indian National Congress - INC with 99 seats.
- Insight 10: Parties with less than 10 seats won 16.21% of the total seats.
- Insight 11: The top 5 parties won 78.64% of the total seats.
- Insight 12: There are 42 parties participating in this election.

### 4.2 Statewise Results – West Bengal

- ➡ Insight 1: The party with the most seats is All India Trinamool Congress - AITC with 29 seats.
- Insight 2: There are 2 parties with less than 15 seats.
- Insight 3: The party with the most seats won 69.05% of the total seats.
- Insight 4: The average number of seats per party is 14.00.
- Insight 5: The median number of seats per party is 12.
- Insight 6: There are 1 parties with exactly 1 seat i.e. parties winning seats in single digits.
- Insight 7: The party with the second most seats is Bharatiya Janata Party - BJP with 12 seats.
- Insight 8: Parties with less than 10 seats won 2.38% of the total seats.
- Insight 9: Parties with less than 15 seats won 30.95% of the total seats.
- Insight 10: The range of seats won by parties is 28 seats.

## **5. Conclusion**

This analysis of the Lok Sabha election results provides a comprehensive overview of the distribution of seats among different political parties, both at the national level and specifically in the state of West Bengal. The insights derived from this analysis help in understanding the political landscape and voter preferences in India.



## **6. References**

- [1] <https://results.eci.gov.in/PcResultGenJune2024/index.htm#>
- [2] <https://results.eci.gov.in/PcResultGenJune2024/partywiseresult-S25.htm>