



# Report: Data Scrapping AND INSIGHTS of 2024 GENERAL Election Results

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**INDIAN  
GENERAL  
ELECTION**

# Technical Details:

Utilized Python libraries, BeautifulSoup and Requests, to scrape data from the official Election Commission of India website (<https://results.eci.gov.in>), which contains the election results for India in 2024. The aim was to extract comprehensive details such as seats won, seats lost, total seats, leading seats, state-wise results, and member-wise results.

Using the Requests library, I sent HTTP requests to fetch the HTML content of the webpage. BeautifulSoup was then employed to parse this HTML content and extract relevant data. The data extraction process involved identifying specific HTML tags and classes that contained the necessary information about the election results.

I focused on several key elements:

- Seats Win/Lose/Total:** Extracted the number of seats each party won, lost, and their total tally.
- Leading Seats:** Identified the number of seats where each party was leading.
- State-wise Results:** Gathered data on the election results from each state.
- Member-wise Results:** Compiled detailed results for individual members, including their winning or losing status.

The scraped data was then organized into a structured format, enabling further analysis and visualization. This approach ensured accurate and up-to-date information was collected efficiently, providing valuable insights into the 2024 election outcomes.

Cleaned\_tables.ipynb - Colab

Scrapping\_code.ipynb - Colab

Loading...

ChatGPT

colab.research.google.com/drive/1YxoBEsCjtMv1umyzXvhkpsTFNir1iDcw#scrollTo=jPK72peKqGBg

Scrapping\_code.ipynb

File Edit View Insert Runtime Tools Help All changes saved

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import requests

from bs4 import BeautifulSoup

import pandas as pd

from urllib.parse import urljoin

def extract\_links\_with\_keywords(base\_url, keyword):

response = requests.get(base\_url)

if response.status\_code == 200:

soup = BeautifulSoup(response.content, 'html.parser')

links = soup.find\_all('a', href=True)

filtered\_links = [urljoin(base\_url, link['href']) for link in links if keyword in link['href']]

return filtered\_links

else:

print(f"Failed to retrieve the webpage. Status code: {response.status\_code}")

return []

def extract\_table\_from\_url(url):

response = requests.get(url)

if response.status\_code == 200:

# Using pandas read\_html to directly get all tables in the page

dataframes = pd.read\_html(response.content)

return dataframes

else:

print(f"Failed to retrieve the webpage. Status code: {response.status\_code}")

return []

def get\_table\_links(base\_url):

response = requests.get(base\_url)

if response.status\_code == 200:

soup = BeautifulSoup(response.content, 'html.parser')

main\_table = soup.find('table')

Connect

Gemini

34°C

Haze

Search

myhp

29

ENG

18:19

01-07-2024



+ Section

```
soup = BeautifulSoup(response.content, 'html.parser')
main_table = soup.find('table')
rows = main_table.find_all('tr')

link_data = []
for row in rows:
    cells = row.find_all('td')
    row_data = [cell.text.strip() for cell in cells]
    link = row.find('a', href=True)
    if link:
        row_data.append(urljoin(base_url, link['href']))
        link_data.append(row_data)

    return link_data
else:
    print(f"Failed to retrieve the webpage. Status code: {response.status_code}")
    return []

def create_dataframes_from_rows(main_table_df, links_data):
    all_dataframes = []
    for i, row in main_table_df.iterrows():
        row_data = row.tolist()
        link = links_data[i][-1] if links_data[i] and len(links_data[i]) > len(row_data) else None
        if link:
            tables = extract_table_from_url(link)
            if tables:
                for table in tables:
                    # Create a new header that combines row data and the table headers
                    combined_headers = pd.MultiIndex.from_arrays([row_data + [""] * (len(table.columns) - len(row_data)), table.columns])
                    new_df = pd.DataFrame(table.values, columns=combined_headers)
                    all_dataframes.append(new_df)
    return all_dataframes
```

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```
for table in tables:
    # Create a new header that combines row data and the table headers
    combined_headers = pd.MultiIndex.from_arrays([row_data + [""] * (len(table.columns) - len(row_data)), table.columns])
    new_df = pd.DataFrame(table.values, columns=combined_headers)
    all_dataframes.append(new_df)

return all_dataframes
```

```
# THESE ARE THE PARTY WISE RESULTS OF LOK SABHA ELECTIONS 2024

base_url="https://results.eci.gov.in/PcResultGenJune2024/index.htm"

df=extract_table_from_url(base_url)

print(df)
```

	Party	Won	Leading	Total
0	Bharatiya Janata Party - BJP	240	0	240
1	Indian National Congress - INC	99	0	99
2	Samajwadi Party - SP	37	0	37
3	All India Trinamool Congress - AITC	29	0	29
4	Dravida Munnetra Kazhagam - DMK	22	0	22
5	Telugu Desam - TDP	16	0	16
6	Janata Dal (United) - JD(U)	12	0	12
7	Shiv Sena (Uddhav Balasaheb Thackrey) - SHSUBT	9	0	9
8	Nationalist Congress Party - Sharadchandra Paw...	8	0	8
9	Shiv Sena - SHS	7	0	7
10	Lok Janshakti Party(Ram Vilas) - LJPRV	5	0	5
11	Yuvajana Sramika Rythu Congress Party - YSRCP	4	0	4
12	Rashtriya Janata Dal - RJD	4	0	4
13	Communist Party of India (Marxist) - CPI(M)	4	0	4

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13	Communist Party of India (Marxist) - CPI(M)	4	0 4
14	Indian Union Muslim League - IUML	3	0 3
15	Aam Aadmi Party - AAP	3	0 3
16	Jharkhand Mukti Morcha - JMM	3	0 3
17	Janasena Party - JnP	2	0 2
18	Communist Party of India (Marxist-Leninist) (L...	2	0 2
19	Janata Dal (Secular) - JD(S)	2	0 2
20	Viduthalai Chiruthaigal Katchi - VCK	2	0 2
21	Communist Party of India - CPI	2	0 2
22	Rashtriya Lok Dal - RLD	2	0 2
23	Jammu & Kashmir National Conference - JKN	2	0 2
24	United People's Party, Liberal - UPPL	1	0 1
25	Asom Gana Parishad - AGP	1	0 1
26	Hindustani Awam Morcha (Secular) - HAMS	1	0 1
27	Kerala Congress - KEC	1	0 1
28	Revolutionary Socialist Party - RSP	1	0 1
29	Nationalist Congress Party - NCP	1	0 1
30	Voice of the People Party - VOTPP	1	0 1
31	Zoram People's Movement - ZPM	1	0 1
32	Shiromani Akali Dal - SAD	1	0 1
33	Rashtriya Loktantrik Party - RLTP	1	0 1
34	Bharat Adivasi Party - BHRTADVSIP	1	0 1
35	Sikkim Krantikari Morcha - SKM	1	0 1
36	Marumalarchi Dravida Munnetra Kazhagam - MDMK	1	0 1
37	Aazad Samaj Party (Kanshi Ram) - ASPKR	1	0 1
38	Apna Dal (Soneylal) - ADAL	1	0 1
39	AJSU Party - AJSUP	1	0 1
40	All India Majlis-E-Ittehadul Muslimeen - AIMIM	1	0 1
41	Independent - IND	7	0 7
42	Total	543	0 543]

[ ] # THESE ARE THE CANDIDATE WISE RESULTS FROM EACH POLITICAL PARTY



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# THESE ARE THE CANDIDATE WISE RESULTS FROM EACH POLITICAL PARTY

base_url = "https://results.eci.gov.in/PcResultGenJune2024/index.htm"

# step 1: main DataFrame
main_dfs = extract_table_from_url(base_url)
main_df = main_dfs[0] if main_dfs else pd.DataFrame()

# step 2: getting all the links
links_data = get_table_links(base_url)

# step 3: creating new dataframes
all_dataframes = create_dataframes_from_rows(main_df, links_data)

for i, df1 in enumerate(all_dataframes):
    print(f"DataFrame {i + 1}:")
    print(df1.head())
```

Winning Candidate Total Votes Margin  
0 INDRA HANG SUBBA 164396 80830  
DataFrame 37:  
Aazad Samaj Party (Kanshi Ram) - ASPKR 1 \

	S.No	Parliament Constituency
0	1	TIRUCHIRAPPALLI(24)

Winning Candidate Total Votes Margin  
0 DURAI VAIKO 542213 313094  
DataFrame 38:  
Apna Dal (Soneylal) - ADAL 1 0 \

	S.No	Parliament Constituency	Winning Candidate
0	1	Nagina(5)	CHANDRASHEKHAR

	0	99
	Winning Candidate	Total Votes Margin
0	C.M.RAMESH	762069 296530
1	DAGGUBATI PURANDHESHWARI	726515 239139
2	BHUPATHI RAJU SRINIVASA VARMA (B.J.P.VARMA)	707343 276802
3	KIREN RIJJU	205417 100738
4	TAPIR GAO	145581 30421

	Margin
0	1012476
1	212231
2	144393
3	59692
4	49863

DataFrame 3:  
All India Trinamool Congress - AITC



1000

0s

 $\{x\}$ 

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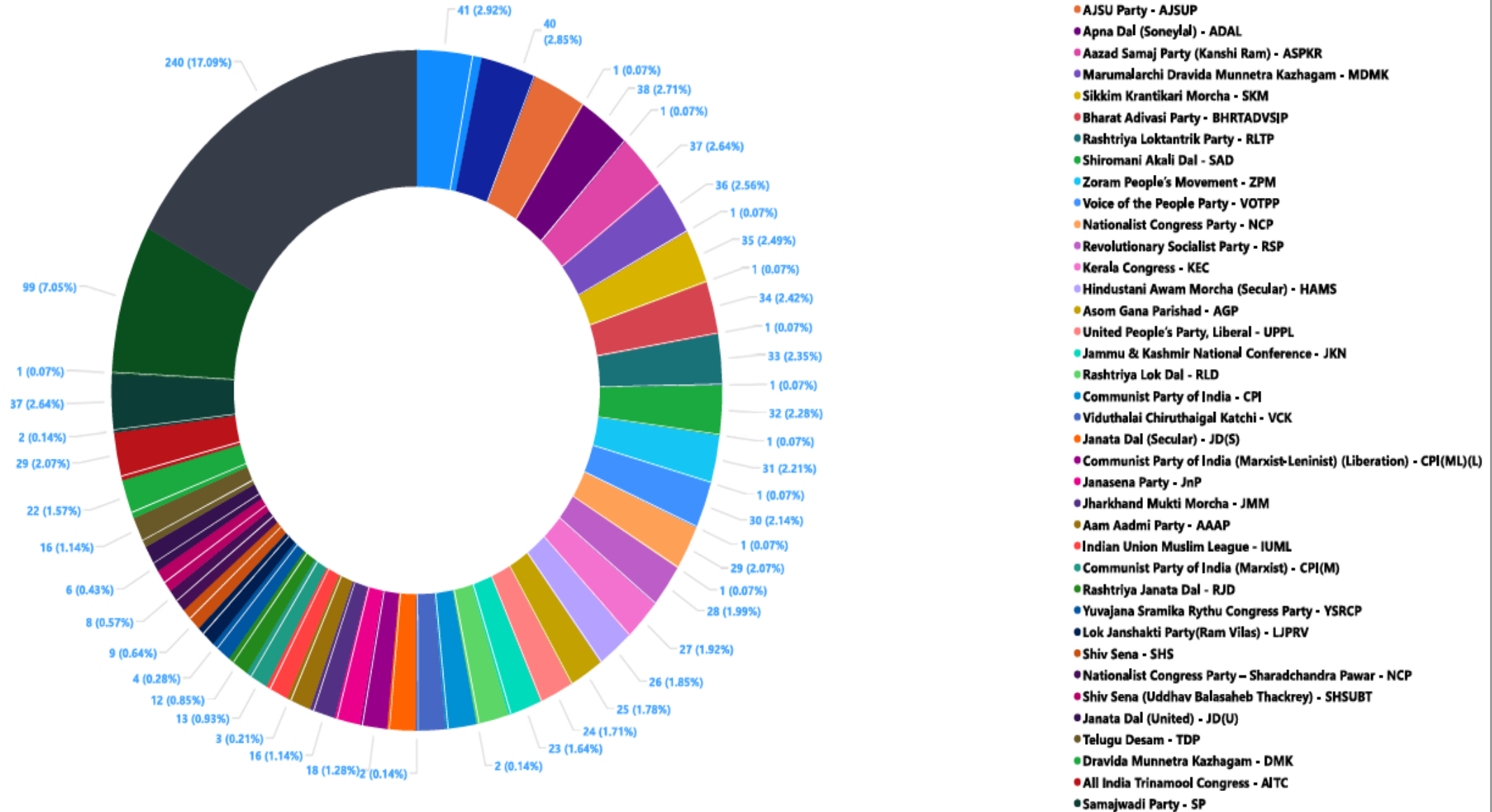


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# Report: Insights Generation on India 2024 Election Results Using Power BI

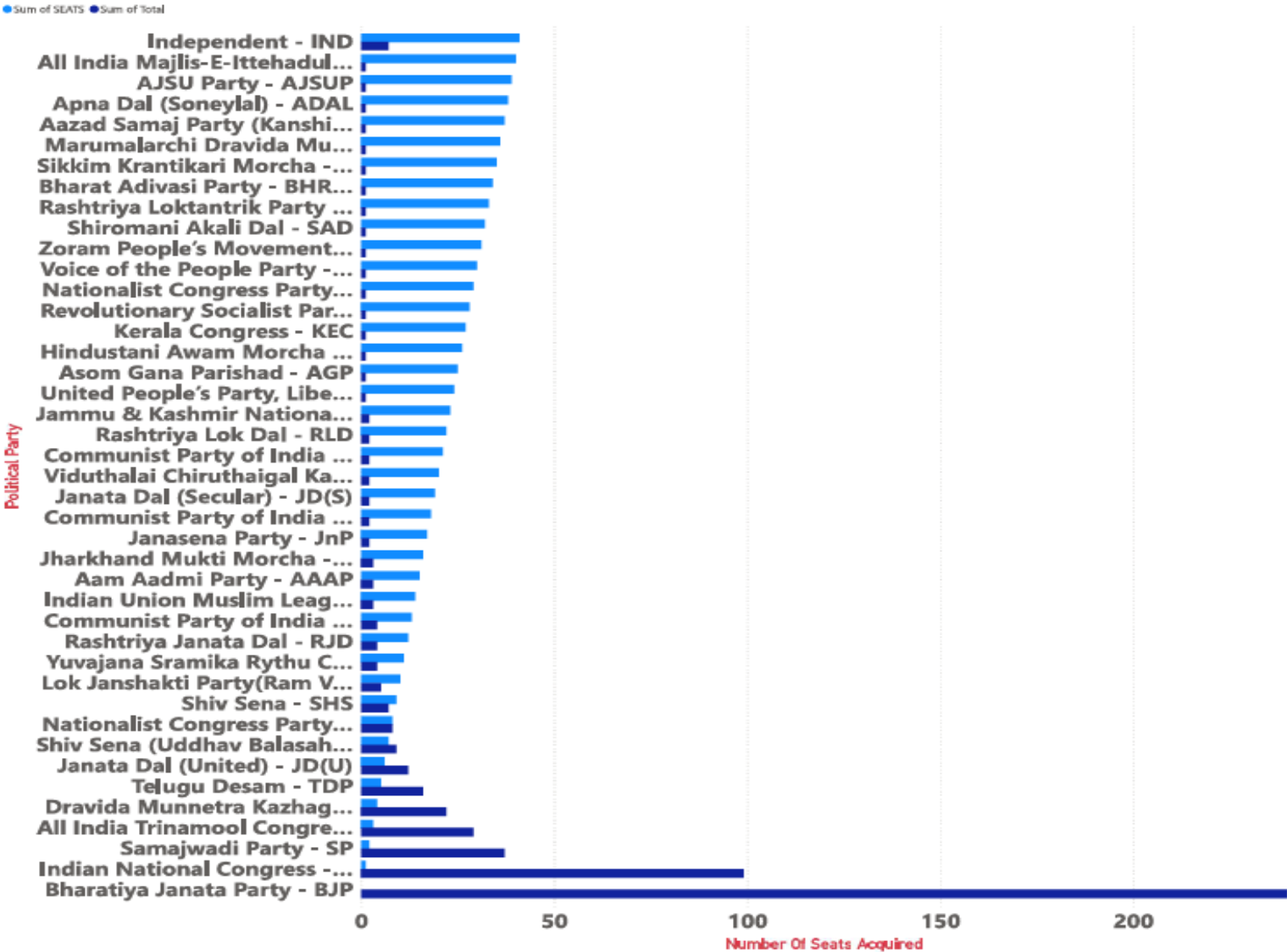
- For analyzing the India 2024 election results, I scraped data from the Election Commission of India's official website (<https://results.eci.gov.in>) using Python's BeautifulSoup and Requests libraries. The goal was to extract detailed information on seats won, lost, total seats, leading seats, state-wise results, and member-wise results.
- After collecting the raw data, I used Python's Pandas and NumPy libraries to clean and preprocess it. This involved handling missing values, correcting data formats, and organizing the data into structured dataframes. These steps were crucial in ensuring the accuracy and reliability of the subsequent analysis.
- With the cleaned data, I imported it into Power BI for visualization and insights generation. Key insights included:
  - **Party Performance:** Visualization of seats won, lost, and total for each party, highlighting their overall performance.
  - **Leading Trends:** Analysis of leading seats to identify potential winners in various regions.
  - **State-wise Analysis:** Comparative analysis of election results across different states to identify regional strongholds and battlegrounds.
  - **Member-wise Results:** Detailed insights into the performance of individual candidates, including win/loss status and vote margins.
- Power BI's robust visualization tools enabled me to create interactive dashboards, making it easier to interpret the election results and uncover trends and patterns. This comprehensive approach provided valuable insights into the 2024 election outcomes, facilitating informed decision-making and strategic planning.

# party wise parliamentary seats





# Sum of SEATS and Sum of Total by Political Party



THANK YOU