

Lok Sabha Election 2024 - Data Analysis

```
display(img)
```



Data set Link : <https://www.kaggle.com/datasets/vivekvishwas/election-lok-sabha-2024>

GitHub Link : <https://github.com/Official-Vivek-Singh?tab=repositories>

LinkedIn : <https://www.linkedin.com/in/vivekvishwas/>

```
#Importing libraries
import pandas as pd

import numpy as np

import datetime as dt

import matplotlib.pyplot as plt

import seaborn as sns

from PIL import Image
from IPython.display import display

img = Image.open(r'D:\Vivek_Stuff\Learning Stuff\Python_Work\Python
Project\LoksabhaelectionBanner.jpg')
```

Import Dataset

```
data = pd.read_csv('D:\Vivek_Stuff\Learning Stuff\Python_Work\Python
Project\election_results_2024.csv', encoding = 'ISO-8859-1')
print('Dataset loaded !!')
```

Dataset loaded !!

Show Top 10 Rows

data.head(10)

	Constituency	Const. No.	Leading Candidate \
0	AJMER	13	BHAGIRATH CHOUDHARY
1	ALWAR	8	BHUPENDER YADAV
2	AMBALA	1	VARUN CHAUDHRY
3	ANANTNAG-RAJOURI	3	MIAN ALTAF AHMAD
4	ARAKKONAM	7	S JAGATHRATCHAKAN
5	ARANI	12	THARANIVENTHAN M S
6	Adilabad	1	GODAM NAGESH
7	Agra	18	PROF S P SINGH BAGHEL
8	Ahmedabad East	7	HASMUKHBHAI PATEL (H.S.PATEL)
9	Ahmedabad West	8	DINESHBHAI MAKWANA (ADVOCATE)

	Leading Party	Trailing
Candidate \		
0	Bharatiya Janata Party	RAMCHANDRA CHOUDHARY
1	Bharatiya Janata Party	LALIT YADAV
2	Indian National Congress	BANTO KATARIA
3	Jammu & Kashmir National Conference	MEHBOOBA MUFTI
4	Dravida Munnetra Kazhagam	L VIJAYAN
5	Dravida Munnetra Kazhagam	GAJENDRAN, G.V.
6	Bharatiya Janata Party	ATHRAM SUGUNA
7	Bharatiya Janata Party	SURESH CHAND KARDAM
8	Bharatiya Janata Party	HIMMATSINH PRAHLADSINH PATEL
9	Bharatiya Janata Party	BHARAT YOGENDRA MAKWANA

	Trailing Party	Margin	Status
0	Indian National Congress	329991	Result Declared
1	Indian National Congress	48282	Result Declared
2	Bharatiya Janata Party	49036	Result Declared
3	Jammu & Kashmir Peoples Democratic Party	281794	Result Declared
4	All India Anna Dravida Munnetra Kazhagam	306559	Result Declared
5	All India Anna Dravida Munnetra Kazhagam	208766	Result Declared
6	Indian National Congress	90652	Result Declared
7	Samajwadi Party	271294	Result Declared
8	Indian National Congress	461755	Result Declared
9	Indian National Congress	286437	Result Declared

Show Last 10 Rows

data.tail(10)

	Constituency	Const. No.	Leading Candidate \
533	Varanasi	77	NARENDRA MODI
534	Vijayawada	12	KESINENI SIVANATH (CHINNI)
535	Visakhapatnam	4	SRIBHARAT MATHUKUMILI
536	Vizianagaram	3	APPALANAIDU KALISSETTI
537	Warangal	15	KADIYAM KAVYA
538	Wardha	8	AMAR SHARADRAO KALE
539	Wayanad	4	RAHUL GANDHI
540	West Delhi	6	KAMALJEET SEHRAWAT
541	Yavatmal- Washim	14	SANJAY UTTAMRAO DESHMUKH
542	Zahirabad	5	SURESH KUMAR SHETKAR

	Leading Party \
533	Bharatiya Janata Party
534	Telugu Desam
535	Telugu Desam
536	Telugu Desam
537	Indian National Congress
538	Nationalist Congress Party â€œ Sharadchandra P...
539	Indian National Congress
540	Bharatiya Janata Party
541	Shiv Sena (Uddhav Balasaheb Thackrey)
542	Indian National Congress

	Trailing Candidate
Trailing Party \	
533	AJAY RAI Indian National Congress
534	KESINENI SRINIVAS (NANI) Yuvajana Sramika Rythu Congress Party
535	JHANSI LAKSHMI. BOTCHA. Yuvajana Sramika Rythu Congress Party
536	BELLANA CHANDRASEKHAR Yuvajana Sramika Rythu Congress Party
537	AROORI RAMESH Bharatiya Janata Party
538	RAMDAS CHANDRABHAN TADAS Bharatiya Janata Party
539	ANNIE RAJA Communist Party of India
540	MAHABAL MISHRA Aam Aadmi Party
541	RAJSHRITAI HEMANT PATIL (MAHALLE) Shiv Sena
542	B. B. PATIL Bharatiya Janata Party

	Margin		Status
533	152513	Result	Declared
534	282085	Result	Declared
535	504247	Result	Declared
536	249351	Result	Declared
537	220339	Result	Declared
538	81648	Result	Declared
539	364422	Result	Declared
540	199013	Result	Declared
541	94473	Result	Declared
542	46188	Result	Declared

Show Dataset Size(Rows & Column)

data.shape

(543, 8)

Show Dataset Column Wise Total Null/Missing Data

data.isnull()

	Constituency	Const. No.	Leading Candidate	Leading Party	\
0	False	False	False	False	False
1	False	False	False	False	False
2	False	False	False	False	False
3	False	False	False	False	False
4	False	False	False	False	False
..
538	False	False	False	False	False
539	False	False	False	False	False
540	False	False	False	False	False
541	False	False	False	False	False
542	False	False	False	False	False

	Trailing Candidate	Trailing Party	Margin	Status
0	False	False	False	False
1	False	False	False	False
2	False	False	False	False
3	False	False	False	False
4	False	False	False	False
..
538	False	False	False	False
539	False	False	False	False
540	False	False	False	False
541	False	False	False	False
542	False	False	False	False

[543 rows x 8 columns]

Show Dataset Column Wise Total Null/Missing Data

data.isnull().sum()

```
Constituency      0
Const. No.        0
Leading Candidate  0
Leading Party      0
Trailing Candidate 1
Trailing Party    1
Margin            0
Status            0
dtype: int64
```

```
# Show Dataset information( Rotal Rows, Column , Data Type Nad Memory uses
```

```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 543 entries, 0 to 542
```

```
Data columns (total 8 columns):
```

#	Column	Non-Null Count	Dtype
0	Constituency	543 non-null	object
1	Const. No.	543 non-null	int64
2	Leading Candidate	543 non-null	object
3	Leading Party	543 non-null	object
4	Trailing Candidate	542 non-null	object
5	Trailing Party	542 non-null	object
6	Margin	543 non-null	object
7	Status	543 non-null	object

```
dtypes: int64(1), object(7)
```

```
memory usage: 34.1+ KB
```

```
# Show Dataset Column only
```

```
data.columns
```

```
Index(['Constituency', 'Const. No.', 'Leading Candidate', 'Leading Party',  
      'Trailing Candidate', 'Trailing Party', 'Margin', 'Status'],  
      dtype='object')
```

```
# Show Total List Constituency in Lok Sabha
```

```
data['Constituency'].unique()
```

```
array(['AJMER', 'ALWAR', 'AMBALA', 'ANANTNAG-RAJOURI', 'ARAKKONAM',  
      'ARANI', 'Adilabad', 'Agra', 'Ahmedabad East', 'Ahmedabad  
West',  
      'Ahmednagar', 'Akbarpur', 'Akola', 'Alappuzha', 'Alathur',  
      'Aligarh', 'Alipurduars', 'Allahabad', 'Almora', 'Amalapuram  
(SC)',  
      'Ambedkar Nagar', 'Amethi', 'Amravati', 'Amreli', 'Amritsar',  
      'Amroha', 'Anakapalle', 'Anand', 'Anandpur Sahib',  
      'Ananthapur',  
      'Andaman & Nicobar Islands', 'Aonla', 'Araku (ST)', 'Arambagh',
```

'Araria', 'Arrah', 'Arunachal East', 'Arunachal West',
'Asansol',
'Aska', 'Attingal', 'Aurangabad', 'Azamgarh', 'BALAGHAT',
'BANSWARA', 'BARAMULLA', 'BARMER', 'BASTAR', 'BETUL',
'BHARATPUR',
'BHILWARA', 'BHIND', 'BHIWANI-MAHENDRAGARH', 'BHOPAL',
'BIKANER',
'BILASPUR', 'Badaun', 'Bagalkot', 'Baghpat', 'Baharaich',
'Baharampur', 'Balasore', 'Ballia', 'Balurghat', 'Banaskantha',
'Banda', 'Bangalore North', 'Bangalore Rural', 'Bangalore
South',
'Bangalore central', 'Bangaon', 'Banka', 'Bankura', 'Bansgaon',
'Bapatla (SC)', 'Barabanki', 'Baramati', 'Barasat',
'Bardhaman Purba', 'Bardhaman-Durgapur', 'Bardoli', 'Bareilly',
'Bargarh', 'Barpeta', 'Barrackpur', 'Basirhat', 'Basti',
'Bathinda', 'Beed', 'Begusarai', 'Belgaum', 'Bellary',
'Berhampur',
'Bhadohi', 'Bhadrak', 'Bhagalpur', 'Bhandara Gondiya',
'Bharuch',
'Bhavnagar', 'Bhiwandi', 'Bhongir', 'Bhubaneswar', 'Bidar',
'Bijapur', 'Bijnor', 'Birbhum', 'Bishnupur', 'Bolangir',
'Bolpur',
'Bulandshahr', 'Buldhana', 'Buxar', 'CHENNAI CENTRAL',
'CHENNAI NORTH', 'CHENNAI SOUTH', 'CHHINDWARA', 'CHIDAMBARAM',
'CHITTORGARH', 'CHURU', 'COIMBATORE', 'CUDDALORE', 'Chalakudy',
'Chamarajanagar', 'Chandauli', 'Chandigarh', 'Chandni Chowk',
'Chandrapur', 'Chatra', 'Chevella', 'Chhota Udaipur',
'Chikballapur', 'Chikkodi', 'Chitradurga', 'Chittoor(SC)',
'Coochbehar', 'Cuttack', 'DAMOH', 'DAUSA', 'DEWAS', 'DHAR',
'DHARMAPURI', 'DINDIGUL', 'DURG', 'Dadar & Nagar Haveli',
'Dahod',
'Dakshina Kannada', 'Daman & Diu', 'Darbhanga', 'Darjeeling',
'Darrang-Udalguri', 'Davanagere', 'Deoria', 'Dhanbad',
'Dharwad',
'Dhaurahra', 'Dhenkanal', 'Dhubri', 'Dhule', 'Diamond harbour',
'Dibrugarh', 'Dindori', 'Diphu', 'Domariyaganj', 'Dum dum',
'Dumka', 'ERODE', 'East Delhi', 'Eluru', 'Ernakulam', 'Etah',
'Etawah', 'FARIDABAD', 'Faizabad', 'Faridkot', 'Farrukhabad',
'Fatehgarh Sahib', 'Fatehpur', 'Fatehpur Sikri', 'Firozabad',
'Firozpur', 'GANGANAGAR', 'GUNA', 'GURGAON', 'GWALIOR',
'Gadchiroli - Chimur', 'Gandhinagar', 'Garhwal',
'Gautam Buddha Nagar', 'Gaya', 'Ghatal', 'Ghaziabad',
'Ghaziipur',
'Ghosi', 'Giridih', 'Godda', 'Gonda', 'Gopalganj', 'Gorakhpur',
'Gulbarga', 'Guntur', 'Gurdaspur', 'Guwahati', 'HAMIRPUR',
'HISAR',
'HOSHANGABAD', 'Hajipur', 'Hamirpur', 'Hardoi', 'Haridwar',
'Hassan', 'Hathras', 'Hatkanangale', 'Haveri', 'Hazaribagh',
'Hindupur', 'Hingoli', 'Hooghly', 'Hoshiarpur', 'Howrah',

'Hyderabad', 'INDORE', 'Idukki', 'Inner Manipur', 'JABALPUR',
'JAIPUR', 'JAIPUR RURAL', 'JALORE', 'JAMMU', 'JANJGIR-CHAMPA',
'JHALAWAR-BARAN', 'JHUNJHUNU', 'JODHPUR', 'Jadavpur',
'Jagatsinghpur', 'Jahanabad', 'Jajpur', 'Jalandhar', 'Jalaun',
'Jalgaon', 'Jalna', 'Jalpaiguri', 'Jamnagar', 'Jamshedpur',
'Jamui', 'Jangipur', 'Jaunpur', 'Jhanjharpur', 'Jhansi',
'Jhargram', 'Jorhat', 'Joynagar', 'Junagadh', 'KALLAKURICHI',
'KANCHEEPURAM', 'KANGRA', 'KANKER', 'KANNIYAKUMARI',
'KARAULI-DHOLPUR', 'KARNAL', 'KARUR', 'KHAJURAHO', 'KHANDWA',
'KHARGONE', 'KORBA', 'KOTA', 'KRISHNAGIRI', 'KURUKSHETRA',
'Kachchh', 'Kadapa', 'Kairana', 'Kaiserganj', 'Kakinada',
'Kalahandi', 'Kalyan', 'Kandhamal', 'Kannauj', 'Kannur',
'Kanpur',
'Kanthi', 'Karakat', 'Karimganj', 'Karimnagar', 'Kasaragod',
'Katihar', 'Kaushambi', 'Kaziranga', 'Kendrapara', 'Keonjhar',
'Khadoor Sahib', 'Khagaria', 'Khammam', 'Kheda', 'Kheri',
'Khunti',
'Kishanganj', 'Kodarma', 'Kokrajhar', 'Kolar', 'Kolhapur',
'Kolkata Dakshin', 'Kolkata Uttar', 'Kollam', 'Koppal',
'Koraput',
'Kottayam', 'Kozhikode', 'Krishnanagar', 'Kurnoolu', 'Kushi
Nagar',
'Ladakh', 'Lakhimpur', 'Lakshadweep', 'Lalganj', 'Latur',
'Lohardaga', 'Lucknow', 'Ludhiana', 'MADURAI', 'MAHASAMUND',
'MANDI', 'MANDLA', 'MANDSOUR', 'MAYILADUTHURAI', 'MIZORAM',
'MORENA', 'Machhlishahr', 'Machilipatnam', 'Madha',
'Madhepura',
'Madhubani', 'Mahabubabad', 'Maharajganj', 'Mahbubnagar',
'Mahesana', 'Mainpuri', 'Malappuram', 'Maldaha Dakshin',
'Maldaha Uttar', 'Malkajgiri', 'Mandya', 'Mathura',
'Mathurapur',
'Maval', 'Mavelikkara', 'Mayurbhanj', 'Medak', 'Medinipur',
'Meerut', 'Mirzapur', 'Misrikh', 'Mohanlalganj', 'Moradabad',
'Mumbai North', 'Mumbai North Central', 'Mumbai North East',
'Mumbai North West', 'Mumbai South', 'Mumbai South Central',
'Munger', 'Murshidabad', 'Muzaffarnagar', 'Muzaffarpur',
'Mysore',
'NAGAPATTINAM', 'NAGAU', 'NAMAKKAL', 'NILGIRIS',
'Nabarangpur',
'Nagaland', 'Nagaon', 'Nagarkurnool', 'Nagina', 'Nagpur',
'Nainital-Udhamsingh Nagar', 'Nalanda', 'Nalgonda', 'Nanded',
'Nandurbar', 'Nandyal', 'Narsapuram', 'Narsaraopet', 'Nashik',
'Navsari', 'Nawada', 'Nellore', 'New Delhi', 'Nizamabad',
'North Goa', 'North-East Delhi', 'North-West Delhi', 'Ongole',
'Osmanabad', 'Outer Manipur', 'PALI', 'PERAMBALUR', 'POLLACHI',
'PUDUCHERRY', 'Palakkad', 'Palamau', 'Palghar', 'Panchmahal',
'Parbhani', 'Paschim Champaran', 'Patan', 'Pathanamthitta',
'Patiala', 'Patliputra', 'Patna Sahib', 'Peddapalle',
'Phulpur',

```

        'Pilibhit', 'Ponnani', 'Porbandar', 'Pratapgarh', 'Pune',
'Puri',
        'Purnia', 'Purulia', 'Purvi Champaran', 'RAIGARH', 'RAIPUR',
        'RAJGARH', 'RAJNANDGAON', 'RAJSAMAND', 'RAMANATHAPURAM',
'RATLAM',
        'REWA', 'ROHTAK', 'Rae Bareli', 'Raichur', 'Raigad', 'Raiganj',
        'Rajahmundry', 'Rajampet', 'Rajkot', 'Rajmahal', 'Rampur',
        'Ramtek', 'Ranaghat', 'Ranchi', 'Ratnagiri- Sindhudurg',
'Raver',
        'Robertsganj', 'SAGAR', 'SALEM', 'SATNA', 'SHAHNOL', 'SHIMLA',
        'SIDHI', 'SIKAR', 'SIRSA', 'SIVAGANGA', 'SONIPAT', 'SRINAGAR',
        'SRIPERUMBUDUR', 'SURGUJA', 'Sabarkantha', 'Saharanpur',
        'Salempur', 'Samastipur', 'Sambalpur', 'Sambhal', 'Sangli',
        'Sangrur', 'Sant Kabir Nagar', 'Saran', 'Sasaram', 'Satara',
        'Secunderabad', 'Shahjahanpur', 'Sheohar', 'Shillong',
'Shimoga',
        'Shirdi', 'Shirur', 'Shrawasti', 'Sikkim', 'Silchar',
'Singhbhum',
        'Sitamarhi', 'Sitapur', 'Siwan', 'Solapur', 'Sonitpur',
        'South Delhi', 'South Goa', 'Srerampur', 'Srikakulam',
'Sultanpur',
        'Sundargarh', 'Supaul', 'Surat', 'Surendranagar', 'TENKASI',
        'THANJAVUR', 'THENI', 'THOOTHUKKUDI', 'TIKAMGARH',
        'TIRUCHIRAPPALLI', 'TIRUNELVELI', 'TIRUPPUR', 'TIRUVALLUR',
        'TIRUVANNAMALAI', 'TONK-SAWAI MADHOPUR', 'Tamluk', 'Tehri
Garhwal',
        'Thane', 'Thirupathi(SC)', 'Thiruvananthapuram', 'Thrissur',
        'Tripura East', 'Tripura West', 'Tumkur', 'Tura', 'UDAIPUR',
        'UDHAMPUR', 'UJJAIN', 'Udupi Chikmagalur', 'Ujiarpur',
'Uluberia',
        'Unnao', 'Uttara Kannada', 'VELLORE', 'VIDISHA', 'VILUPPURAM',
        'VIRUDHUNAGAR', 'Vadakara', 'Vadodara', 'Vaishali',
        'Valmiki Nagar', 'Valsad', 'Varanasi', 'Vijayawada',
        'Visakhapatnam', 'Vizianagaram', 'Warangal', 'Wardha',
'Wayanad',
        'West Delhi', 'Yavatmal- Washim', 'Zahirabad']], dtype=object)

```

Show Total Count of Constituency in Lok Sabha

```
data['Constituency'].nunique()
```

541

Show Top 5 Constituency in Lok Sabha

```
data['Constituency'].value_counts(ascending=False).head()
```

```

Constituency
Maharajganj      2
Aurangabad      2
NAGAU            1
Munger           1

```



```
Murshidabad      1
Name: count, dtype: int64
```

```
data.columns
```

```
Index(['Constituency', 'Const. No.', 'Leading Candidate', 'Leading Party',
      'Trailing Candidate', 'Trailing Party', 'Margin', 'Status'],
      dtype='object')
```

```
# Show Party Wise Total Won in Lok Sabha
```

```
data['Leading Party'].value_counts()
```

```
Leading Party
Bharatiya Janata Party      240
Indian National Congress    99
Samajwadi Party             37
All India Trinamool Congress 29
Dravida Munnetra Kazhagam    22
Telugu Desam                16
Janata Dal (United)         12
Shiv Sena (Uddhav Balasaheb Thackrey) 9
Nationalist Congress Party â€ (Sharadchandra Pawar) 8
Shiv Sena                   7
Independent                 7
Lok Janshakti Party(Ram Vilas) 5
Communist Party of India (Marxist) 4
Yuva Jana Sramika Rythu Congress Party 4
Rashtriya Janata Dal        4
Indian Union Muslim League   3
Jharkhand Mukti Morcha       3
Aam Aadmi Party              3
Rashtriya Lok Dal            2
Communist Party of India (Marxist-Leninist) (Liberation) 2
Communist Party of India     2
Jammu & Kashmir National Conference 2
Janasena Party               2
Janata Dal (Secular)         2
Viduthalaï Chiruthaigal Katch 2
Hindustani Awam Morcha (Secular) 1
Sikkim Krantikari Morcha     1
Voice of the People Party     1
Nationalist Congress Party    1
Aazad Samaj Party (Kanshi Ram) 1
Rashtriya Loktantrik Party    1
Shiromani Akali Dal           1
Apna Dal (Soneylal)           1
AJSU Party                   1
Zoram Peopleâ€™s Movement      1
Kerala Congress              1
```

Revolutionary Socialist Party	1
Asom Gana Parishad	1
United Peopleâ(s Party, Liberal	1
Bharat Adivasi Party	1
All India Majlis-E-Ittehadul Muslimeen	1
Marumalarchi Dravida Munnetra Kazhagam	1

Name: count, dtype: int64

```
# Show Candidate wise Total Won in Lok Sabha
data['Leading Candidate'].value_counts()
```

Leading Candidate	
RAHUL GANDHI	2
BHAGIRATH CHOUDHARY	1
RAJ BHUSHAN CHOUDHARY	1
ARVIND GANPAT SAWANT	1
ANIL YESHWANT DESAI	1
..	
MUKESH RAJPUT	1
SARABJEET SINGH KHALSA	1
AWADHESH PRASAD	1
KRISHAN PAL	1
SURESH KUMAR SHETKAR	1

Name: count, Length: 542, dtype: int64

```
# Show Candidate wise Total Votes in Lok Sabha
data.groupby('Leading Candidate')['Margin'].sum()
```

Leading Candidate	
AASHTIKAR PATIL NAGESH BAPURAO	108602
ABDUL RASHID SHEIKH	204142
ABHAY KUMAR SINHA	79111
ABHIJIT GANGOPADHYAY	77733
ABHISHEK BANERJEE	710930
...	
VIVEK THAKUR	67670
Y. S. AVINASH REDDY	62695
YADUVEER KRISHNADATTA CHAMARAJA WADIYAR	139262
YOGENDER CHANDOLIYA	290849
ZIA UR REHMAN	121494

Name: Margin, Length: 542, dtype: object

```
# Show Janata Dal (United) Won Candidate list
data[data['Leading Party'] == 'Janata Dal (United)']['Leading Candidate'].unique()
```

```
array(['GIRIDHARI YADAV', 'AJAY KUMAR MANDAL', 'DR. ALOK KUMAR SUMAN',
      'RAMPRIT MANDAL', 'DINESH CHANDRA YADAV',
      'RAJIV RANJAN SINGH ALIAS LALAN SINGH', 'KAUSHALENDRA KUMAR',
      'LOVELY ANAND', 'DEVESH CHANDRA THAKUR', 'VIJAYLAKSHMI DEVI',
      'DILESHWAR KAMAIT', 'SUNIL KUMAR'], dtype=object)
```

```
# How Many Margin of Votes Rahul Dandhi Won
```

```
data[data['Leading Candidate'].str.contains('Rahul Gandhi', case = False)]
```

	Constituency	Const. No.	Leading Candidate	Leading Party
430	Rae Bareilly	36	RAHUL GANDHI	Indian National Congress
539	Wayanad	4	RAHUL GANDHI	Indian National Congress

	Trailing Candidate	Trailing Party	Margin	Status
430	DINESH PRATAP SINGH	Bharatiya Janata Party	390030	Result Declared
539	ANNIE RAJA	Communist Party of India	364422	Result Declared

```
# Show the List Of Trailing Candidate
```

```
data['Trailing Candidate'].unique()
```

```
array(['RAMCHANDRA CHOUDHARY', 'LALIT YADAV', 'BANTO KATARIA',  
      'MEHBOOBA MUFTI', 'L VIJAYAN', 'GAJENDRAN, G.V.', 'ATHRAM  
SUGUNA',  
      'SURESH CHAND KARDAM', 'HIMMATSINH PRAHLADSINH PATEL',  
      'BHARAT YOGENDRA MAKWANA', 'DR. SUJAY RADHAKRISHNA VIKHEPATIL',  
      'RAJARAM PAL', 'ABHAY KASHINATH PATIL', 'A. M ARIFF',  
      'RAMYA HARIDAS', 'BIJENDRA SINGH', 'PRAKASH CHIK BARAIK',  
      'NEERAJ TRIPATHI', 'PRADEEP TAMTA', 'RAPAKA VARAPRASADA RAO',  
      'RITESH PANDEY', 'SMRITI IRANI', 'NAVNEET RAVI RANA',  
      'JENNY THUMMAR', 'KULDEEP SINGH DHALIWAL', 'KUNWAR DANISH ALI',  
      'BUDI MUTYALA NAIDU', 'AMIT CHAVDA', 'VIJAY INDER SINGLA',  
      'MALAGUNDLA SANKAR NARAYANA', 'KULDEEP RAI SHARMA',  
      'DHARMENDRA KASHYAP', 'KOTHAPALLI GEETHA', 'ARUP KANTI DIGAR',  
      'SHAHNAWAZ', 'R. K. SINGH', 'BOSIRAM SIRAM', 'NABAM TUKI',  
      'SURENDRAJEET SINGH AHLUWALIA', 'RANJITA SAHU', 'V JOY',  
      'IMTIAZ JALEEL SYED', 'SUSHIL KUMAR SINGH',  
      'DINESH LAL YADAV', 'NIRAHUA',  
      'SAMRAT ASHOK SINGH SARASWAR', 'MAHENDRAJEETSINGH MALVIYA',  
      'OMAR ABDULLAH', 'RAVINDRA SINGH BHATI', 'KAWASI LAKHMA',  
      'RAMU TEKAM', 'RAMSWAROOP KOLI', 'C P JOSHI',  
      'PHOOL SINGH BARAIYA', 'RAO DAN SINGH',  
      'ADVOCATE ARUN SHRIVASTAVA', 'GOVINDRAM MEGHWAL', 'DEVENDRA  
YADAV',  
      'DURVIJAY SINGH SHAKYA', 'SAMYUKTA SHIVANAND PATIL', 'AMARPAL',  
      'RAMESH CHANDRA', 'ADHIR RANJAN CHOWDHURY',  
      'LEKHASRI SAMANTSINGHAR', 'NEERAJ SHEKHAR', 'BIPLAB MITRA',  
      'DR. REKHABEN HITESHBHAI CHAUDHARI', 'R. K. SINGH PATEL',
```

'PROFESSOR M.V RAJEEV GOWDA', 'D K SURESH', 'SOWMYA REDDY',
 'MANSOOR ALI KHAN', 'BISWAJIT DAS S/O LATE BIJAY KRISHNA DAS',
 'JAI PRAKASH NARAYAN YADAV', 'DR. SUBHAS SARKAR', 'SADAL
 PRASAD',
 'NANDIGAM SURESH BABU', 'RAJRANI RAWAT', 'SUNETRA AJITDADA
 PAWAR',
 'SWAPAN MAJUMDER', 'ASIM KUMAR SARKAR', 'DILIP GHOSH',
 'CHAUDHARY SIDDHARTH AMARSINH', 'PRAVEEN SINGH ARON',
 'PARINITA MISHRA', 'DEEP BAYAN', 'ARJUN SINGH', 'REKHA PATRA',
 'HARISH CHANDRA ALIAS HARISH DWIVEDI', 'GURMEET SINGH KHUDIAN',
 'PANKAJA GOPINATHRAO MUNDE', 'ABDHESH KUMAR ROY',
 'MRINAL R HEBBALKAR', 'B. SREERAMULU', 'BHRUGU BAXIPATRA',
 'LALITESH PATI TRIPATHI', 'MANJULATA MANDAL', 'AJEET SHARMA',
 'SUNIL BABURAO MENDHE', 'CHAITARBHAI DAMJIBHAI VASAVA',
 'UMESHBHAI NARANBHAI MAKWANA', 'KAPIL MORESHWAR PATIL',
 'DR. BOORA NARSAIAH GOUD', 'MANMATH KUMAR ROUTRAY',
 'BHAGWANTH KHUBA', 'RAJU ALAGUR.', 'DEEPAK',
 'DEBTANU BHATTACHARYA', 'SUJATA MONDAL', 'SURENDRA SINGH BHOI',
 'PIYA SAHA', 'SHIVRAM', 'NARENDRA DAGDU KHEDEKAR',
 'MITHILESH TIWARI', 'VINOJ', 'R. MANOHAR',
 'DR.TAMILISAI SOUNDARARAJAN', 'NAKUL KAMALNATH', 'CHANDRAHASAN
 M',
 'ANJANA UDAILAL', 'DEVENDRA JHAJHARIA', 'ANNAMALAI K',
 'P. SIVAKOZHUNDU', 'PROF C RAVEENDRANATH', 'BALARAJ.S',
 'DR. MAHENDRA NATH PANDEY', 'SANJAY TANDON', 'JAI PRAKASH
 AGARWAL',
 'MUNGANTIWAR SUDHIR SACCHIDANAND', 'KRISHNA NAND TRIPATHI',
 'DR GADDAM RANJITH REDDY', 'SUKHRAMBHAI HARIYABHAI RATHWA',
 'M.S. RAKSHA RAMAIAH', 'ANNASAHEB SHANKAR JOLLE',
 'B.N.CHANDRAPPA',
 'REDDEPPA.N .', 'NISITH PRAMANIK', 'SANTRUPT MISRA',
 'TARBAR SINGH LODHI (BANTU BHAIYA)', 'KANHAIYA LAL MEENA',
 'RAJENDRA RADHAKISHAN MALVIYA', 'RADHESHYAM MUVEL',
 'SOWMIYA ANBUMANI', 'MOHAMED MUBARAK M A', 'RAJENDRA SAHU',
 'AJIT RAMJIBHAI MAHALA', 'DR. PRABHABEN KISHORSINH TAVIYAD',
 'PADMARAJ.R.POOJARY', 'LALUBHAI BABUBHAI PATEL',
 'LALIT KUMAR YADAV', 'GOPAL LAMA', 'MADHAB RAJBANGSHI',
 'GAYITHRI SIDDESHWARA', 'AKHILESH PRATAP SINGH', 'ANUPAMA
 SINGH',
 'VINOD ASOOTI', 'REKHA VERMA', 'ABINASH SAMAL',
 'MOHAMMED BADRUDDIN AJMAL', 'BHAMRE SUBHASH RAMRAO',
 'ABHIJIT DAS (BOBBY)', 'LURINJYOTI GOGOI',
 'DR. BHARATI PRAVIN PAWAR', 'J. I. KATHAR',
 'BHISHMA SHANKAR ALIAS KUSHAL TIWARI', 'SILBHADRA DATTA',
 'SITA MURMU', 'ASHOK KUMAR', 'KULDEEP KUMAR (MONU)',
 'KARUMURI SUNIL KUMAR', 'K. J. SHINE TEACHER',
 'RAJVEER SINGH (RAJU BHAIYA)', 'DR RAM SHANKAR KATHERIA',
 'MAHENDER PRATAP SINGH', 'LALLU SINGH', 'KARAMJIT SINGH ANMOL',
 'DR. NAVAL KISHOR SHAKYA', 'GURPREET SINGH GP', 'NIRANJAN

JYOTI',
 'RAMNATH SINGH SIKARWAR', 'VISHWADEEP SINGH',
 'JAGDEEP SINGH KAKA BRAR', 'PRIYANKA BALAN MEGHWAL',
 'YADVENDRA RAO DESHRAJ SINGH', 'RAJ BABBAR', 'PRAVEEN PATHAK',
 'ASHOK MAHADEORAO NETE', 'SONAL RAMANBHAI PATEL', 'GANESH
 GODIYAL',
 'DR. MAHENDRA SINGH NAGAR', 'KUMAR SARVJEET',
 'DR. HIRANMOY CHATTOPADHYAYA', 'DOLLY SHARMA', 'PARS NATH RAI',
 'DR. ARVIND RAJBHAR', 'MATHURA PRASAD MAHATO', 'PRADEEP YADAV',
 'SHREYA VERMA', 'PREM NATH CHANCHAL ALIAS CHANCHAL PASWAN',
 'KAJAL NISHAD', 'DR. UMESH G JADHAV', 'KILARI VENKATA ROSAIAH',
 'DINESH SINGH BABBU', 'MIRA BORTHAKUR GOSWAMI', 'SATPAL
 RAIZADA',
 'RANJIT SINGH', 'SANJAY SHARMA SANJU BHAIYA', 'SHIV CHANDRA
 RAM',
 'KUNWAR PUSHPENDRA SINGH CHANDEL', 'USHA VERMA', 'VIRENDRA
 RAWAT',
 'PRAJWAL REVANNA', 'JASVEER VALMIKI',
 'SATYAJEET BABASAHEB PATIL (AABA) SARUDKAR',
 'ANANDSWAMY GADDADEVARMATH', 'JAI PRAKASH BHAI PATEL', 'J
 SHANTHA',
 'BABURAO KADAM KOHALIKAR', 'LOCKET CHATTERJEE', 'YAMINI GOMAR',
 'DR RATHIN CHAKRAVARTY', 'MADHAVI LATHA KOMPELLA',
 'SANJAY S/O LAKSHMAN SOLANKI', 'ADV. JOICE GEORGE',
 'THOUNAOJAM BASANTA KUMAR SINGH', 'DINESH YADAV',
 'PRATAP SINGH KHACHARIYAWAS', 'ANIL CHOPRA', 'VAIBHAV GEHLOT',
 'RAMAN BHALLA', 'DR. SHIVKUMAR DAHARIYA',
 'URMILA JAIN â\x80\x9cBHAYAâ\x80\x9d', 'SHUBHKARAN CHOUDHARY',
 'KARAN SINGH UCHIYARDA', 'DR. ANIRBAN GANGULY',
 'DR. RAJASHREE MALLICK', 'CHANDESHWAR PRASAD', 'SARMISTHA
 SETHI',
 'SUSHIL KUMAR RINKU', 'BHANU PRATAP SINGH VERMA',
 'KARAN BALASAHEB PATIL - PAWAR', 'DANVE RAOSAHEB DADARAO',
 'NIRMAL CHANDRA ROY', 'ADVOCATE J. P. MARAVIYA',
 'SAMIR KUMAR MOHANTY', 'ARCHANA KUMARI', 'MURTOJA HOSSAIN
 BOKUL',
 'KRIPASHANKAR SINGH', 'SUMAN KUMAR MAHAETH',
 'PRADEEP JAIN "ADITYA"', 'DR. PRANAT TUDU', 'TOPON KUMAR
 GOGOI',
 'ASHOK KANDARY', 'JOTVA HIRABHAI ARJANBHAI', 'KUMARAGURU R',
 'RAJASEKAR. E', 'ANAND SHARMA', 'BIRESH THAKUR', 'RADHAKRISHNAN
 P',
 'INDU DEVI', 'DIVYANSHU BUDHIRAJA', 'THANGAVEL. L',
 'KAMLESH KUMAR', 'NARENDRA PATEL', 'PORLAL BATHA KHARTE',
 'SAROJ PANDEY', 'PRAHLAD GUNJAL', 'JAYAPRAKASH V',
 'DR SUSHIL GUPTA', 'NITESH PARBATBHAI LALAN (MATANG)',
 'CHADIPIRALLA BHUPESH SUBBARAMI REDDY', 'PRADEEP KUMAR',
 'BHAGAT RAM', 'CHALAMALASETTY SUNIL', 'LAMBODAR NIAL',
 'VAISHALI DAREKAR - RANE', 'ACHYUTANANDA SAMANTA', 'SUBRAT

PATHAK',
 'M.V. JAYARAJAN', 'ALOK MISRA',
 'UTTAM BARIK SON OF LATE BIRENDRA BARIK', 'PAWAN SINGH',
 'HAFIZ RASHID AHMED CHOUDHURY', 'VELCHALA RAJENDER RAO',
 'M.V BALAKRISHNAN MASTER', 'DULAL CHANDRA GOSWAMI',
 'VINOD KUMAR SONKAR', 'ROSELINA TIRKEY', 'ANSHUMAN MOHANTY',
 'DHANURJAYA SIDU', 'KULBIR SINGH ZIRA', 'SANJAY KUMAR',
 'NAMA NAGESWARA RAO', 'KALUSINH DABHI', 'AJAY KUMAR',
 'ARJUN MUNDA', 'MUJAHID ALAM', 'VINOD KUMAR SINGH',
 'KAMPA BORGoyARI', 'K V GOWTHAM', 'SANJAY SADASHIVRAO MANDLIK',
 'DEBASREE CHAUDHURI', 'TAPAS ROY', 'M MUKESH',
 'DR . BASAVARAJ. K. SHARANAPPA', 'KAUSALYA HIKAKA',
 'THOMAS CHAZHIKADAN', 'ELAMARAM KAREEM', 'AMRITA ROY',
 'B Y RAMAIAH', 'AJAY PRATAP SINGH URF PINTU SAITHWAR',
 'TSERING NAMGYAL', 'UDAY SHANKAR HAZARIKA', 'MOHAMMED FAIZAL
 PP',
 'NEELAM SONKER', 'SUDHAKAR TUKARAM SHRANGARE', 'SAMIR ORAON',
 'RAVIDAS MEHROTRA', 'RAVNEET SINGH BITTU', 'RAAMA SREENIVASAN',
 'TAMRADHWAJ SAHU', 'VIKRAMADITYA SINGH', 'OMKAR SINGH MARKAM',
 'DILIP SINGH GURJAR', 'BABU P', 'K VANLALVENA',
 'NEETU SATYAPAL SINGH SIKARWAR', 'BHOLANATH (B.P. SAROJ)',
 'SIMHADRI CHANDRA SEKHAR RAO',
 'RANJEETSINGH HINDURAO NAIK NIMBALKAR', 'DA KUMAR CHANDRADEEP',
 'MD ALI ASHRAF FATMI', 'KAVITHA MALOTH', 'VIRENDRA CHAUDHARY',
 'AAKASH KUMAR SINGH', 'CHALLA VAMSHI CHAND REDDY', 'RAMJI
 THAKOR',
 'JAYVEER SINGH', 'V. VASEEF',
 'SREERUPA MITRA CHAUDHURY (NIRBHAYA DIDI)', 'PRASUN BANERJEE',
 'PATNAM SUNEETHA MAHENDER REDDY',
 'VENKATARAMANE GOWDA (STAR CHANDRU)', 'MUKESH DHANGAR',
 'ASHOK PURKAIT', 'SANJOG BHIKU WAGHERE PATIL',
 'ADV ARUN KUMAR C A', 'SUDAM MARNDI', 'NEELAM MADHU',
 'AGNIMITRA PAUL', 'SUNITA VERMA', 'RAMESH CHAND BIND',
 'SANGITA RAJVANSHI', 'KAUSHAL KISHORE', 'KUNWAR SARVESH KUMAR',
 'BHUSHAN PATIL', 'ADV UJWAL NIKAM', 'MIHIR CHANDRAKANT
 KOTECHA',
 'AMOL GAJANAN KIRTIKAR', 'YAMINI YASHWANT JADHAV',
 'RAHUL RAMESH SHEWALE', 'KUMARI ANITA', 'MD SALIM',
 'SANJEEV KUMAR BALYAN', 'AJAY NISHAD', 'M. LAKSHMANA',
 'DR SURSITH SANKAR G', 'JYOTI MIRDHA', 'TAMILMANI S',
 'DR MURUGAN L', 'PRADEEP KUMAR MAJHI', 'DR CHUMBEN MURRY',
 'SURESH BORAH', 'BHARATH PRASAD POTHUGANTI', 'OM KUMAR',
 'VIKAS THAKRE', 'PRAKASH JOSHI', 'DR. SANDEEP SAURAV',
 'SAIDI REDDY SHANAMPUDI', 'CHIKHALIKAR PRATAPRAO GOVINDRAO',
 'DR HEENA VIJAYKUMAR GAVIT', 'POCHA BRAHMANANDA REDDY',
 'UMABALA GUDURI', 'ANIL KUMAR POLUBOINA', 'GODSE HEMANT
 TUKARAM',
 'NAISHADHBHAI BHUPATBHAI DESAI', 'SHRAWAN KUMAR',
 'VENUMBAKA VIJAYASAI REDDY', 'SOMNATH BHARTI',

'JEEVANREDDY THATIPARTHI', 'RAMAKANT KHALAP', 'KANHAIYA KUMAR',
'UDIT RAJ', 'DR CHEVIREDDY BHASKAR REDD',
'ARCHANA RANAJAGJITSINH PATIL', 'KACHUI TIMOTHY ZIMIK',
'SANGEETA BENIWAL', 'CHANDRAMOHAN N D', 'KARTHIKEYAN A',
'A NAMASSIVAYAM', 'A VIJAYARAGHAVAN', 'MAMTA BHUIYAN',
'BHARTI BHARAT KAMDI', 'GULABSINH SOMSINH CHAUHAN',
'JANKAR MAHADEV JAGANNATH', 'MADAN MOHAN TIWARI',
'CHANDANJI TALAJI THAKOR', 'DR.T.M.THOMAS ISSAC',
'DR BALBIR SINGH', 'RAM KRIPAL YADAV', 'ANSHUL AVIJIT',
'SRINIVAS GOMASE', 'AMAR NATH SINGH MAURYA',
'BHAGWAT SARAN GANGWAR', 'K.S HAMZA', 'LALIT VASOYA',
'SANGAM LAL GUPTA', 'DHANGEKAR RAVINDRA HEMRAJ',
'ARUP MOHAN PATNAIK', 'SANTOSH KUMAR', 'SHANTIRAM MAHATO',
'DR RAJESH KUMAR', 'DR. MENKA DEVI SINGH', 'VIKAS UPADHYAY',
'DIGVIJAYA SINGH', 'BHUPESH BAGHEL', 'DR. DAMODAR GURJAR',
'PANNEERSELVAM O S/O OTTAKARATHEVAR', 'KANTILAL BHURIA',
'NEELAM ABHAY MISHRA', 'DR. ARVIND KUMAR SHARMA',
'DINESH PRATAP SINGH', 'RAJA AMARESHWARA NAIK.', 'ANANT GEETE',
'KALYANI KRISHNA', 'DR. GUDURI SRINIVAS',
'NALLARI KIRAN KUMAR REDDY', 'DHANANI PARESH', 'TALA MARANDI',
'GHANSHYAM SINGH LODHI', 'RAJU DEONATH PARVE',
'MUKUT MANI ADHIKARI', 'YASHASWINI SAHAY', 'VINAYAK BHAURAO

RAUT',

'SHRIRAM DAYARAM PATIL', 'RINKI SINGH',
"CHANDRA BHUSAN SINGH BUNDELA 'GUDDU RAJA'", 'VIGNESH P',
'DABBU SIDDHARTH SUKHLAL KUSHWAHA', 'PHUNDE LAL SINGH MARKO',
'Vinod Sultanpuri', 'KAMLESHWAR INDRAJIT KUMAR',
'SUMEDHANAND SARASWATI', 'ASHOK TANWAR', 'XAVIERDASS A',
'MOHAN LAL BADOLI', 'WAHEED UR REHMAN PARA', 'G PREMKUMAR',
'SHASHI SINGH KORAM', 'CHAUDHARI TUSHAR AMARSINH',
'RAGHAV LAKHANPAL', 'RAVINDAR KUSHAWAHA', 'SUNNY HAZARI',
'PRANAB PRAKASH DAS', 'PARMESHWAR LAL SAINI',
'SANJAY (KAKA) PATIL', 'SUKHPAL SINGH KHAIRA',
'PRAVIN KUMAR NISHAD', 'ROHINI ACHARYA', 'SHIVESH KUMAR',
'SHASHIKANT JAYVANTRAO SHINDE', 'DANAM NAGENDER', 'JYOTSNA

GOND',

'RITU JAISWAL', 'VINCENT H. PALA', 'GEETHA SHIVARAJKUMAR',
'LOKHANDE SADASHIV KISAN', 'ADHALRAO SHIVAJI DATTATREY',
'SAKET MISRA', 'BHARAT BASNETT', 'SURYA KANTA SARKAR',
'GEETA KORA', 'ARJUN RAY', 'RAJESH VERMA', 'HENA SHAHAB',
'RAM VITTHAL SATPUTE', 'PREMLAL GANJU', 'SAHI RAM',
'PALLAVI SHRINIVAS DEMPO', 'KABIR SHANKAR BOSE', 'TILAK

PERADA',

'MANEKA SANJAY GANDHI', 'DILIP KUMAR TIRKEY', 'CHANDRAHAS

CHAUPAL',

nan, 'RUTVIKBHAI LAVJIBHAI MAKWANA', 'DR K KRISHNASAMY',
'SIVANESAN P', 'TTV DHINAKARAN', 'SIVASAMY VELUMANI R',
'KHUMAN URF PANKAJ AHIRWAR', 'KARUPPAIAH. P', 'NAINAR

NAGENTHRAN',

```
'ARUNACHALAM, P.', 'Balaganapathy, V. Pon', 'KALIYAPERUMAL M',
'SUKHBIR SINGH JAUNAPURIA', 'DEBANGSHU BHATTACHARYA',
'JOT SINGH GUNSOLA', 'RAJAN BABURAO VICHARE',
'VARA PRASAD RAO VELAGAPALLI', 'RAJEEV CHANDRASEKHAR',
'ADV V S SUNILKUMAR', 'RAJENDRA REANG', 'ASISH KUMAR SAHA',
'S.P. MUDDAHANUMEGOWDA', 'AGATHA K SANGMA', 'TARACHAND MEENA',
'CH LAL SINGH', 'MAHESH PARMAR', 'K. JAYAPRAKASH HEGDE',
'ALOK KUMAR MEHTA', 'ARUNUDAY PAULCHOWDHURY', 'ANNU TANDON',
'DR. ANJALI NIMBALKAR', 'AC SHANMUGAM', 'PRATAPBHANU SHARMA',
'BHAGYARAJ. J', 'VIJAYAPRABHAKARAN V', 'K K SHAILAJA TEACHER',
'PADHIYAR JASHPALSINH MAHENDRASINH (BAPU)', 'VIJAY KUMAR
SHUKLA',
'DEPAK YADAV', 'ANANTKUMAR HASMUKHBHAI PATEL', 'AJAY RAI',
'KESINENI SRINIVAS (NANI)', 'JHANSI LAKSHMI. BOTCHA.',
'BELLANA CHANDRASEKHAR', 'AROORI RAMESH',
'RAMDAS CHANDRABHAN TADAS', 'ANNIE RAJA', 'MAHABAL MISHRA',
'RAJSHRITAI HEMANT PATIL (MAHALLE)', 'B. B. PATIL'],
dtype=object)
```

```
# Show the Status of SMRITI IRANI
```

```
data[data['Trailing Candidate'] == 'SMRITI IRANI']
```

	Constituency	Const. No.	Leading Candidate	Leading Party \
21	Amethi	37	KISHORI LAL	Indian National Congress

	Trailing Candidate	Trailing Party	Margin	Status
21	SMRITI IRANI	Bharatiya Janata Party	167196	Result Declared

```
# Show Status Count
```

```
data.Status.value_counts()
```

```
Status
Result Declared    542
Uncontested         1
Name: count, dtype: int64
```

Party with highest and lowest margin of victory

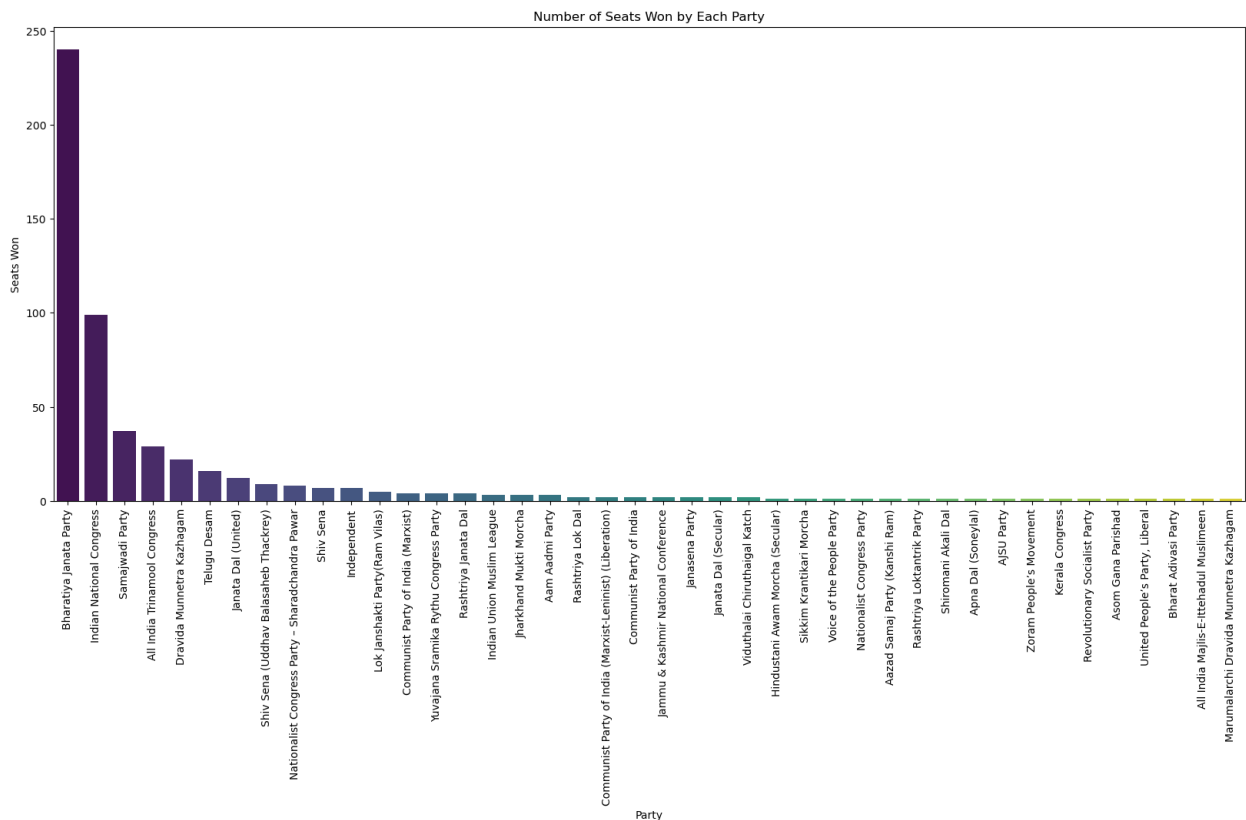
```
party_votes = data.groupby('Leading Party')
['Margin'].sum().sort_values(ascending=False)
data['Margin'] = pd.to_numeric(data['Margin'], errors='coerce')
```



```
# Party with highest and lowest margin of victory
highest_margin = data.loc[data['Margin'].idxmax()]
lowest_margin = data.loc[data['Margin'].idxmin()]
```

Plot number of seats won by each party

```
leading_party_highest_votes = party_votes.idxmax()
leading_party_lowest_votes = party_votes.idxmin()
# Number of seats won by each party
seats_won = data['Leading Party'].value_counts()
# Plot number of seats won by each party
plt.figure(figsize=(20, 8))
sns.barplot(x=seats_won.index, y=seats_won.values, palette='viridis')
plt.title('Number of Seats Won by Each Party')
plt.xlabel('Party')
plt.ylabel('Seats Won')
plt.xticks(rotation=90)
plt.show()
```



Get the votes for Rahul Gandhi, Narendra Modi, and Amit Shah

```
rahul_entries = data[data['Leading Candidate'] == 'RAHUL GANDHI']
modi_entries = data[data['Leading Candidate'] == 'NARENDRA MODI']
amit_entries = data[data['Leading Candidate'] == 'AMIT SHAH']

# Get the votes for Rahul Gandhi, Narendra Modi, and Amit Shah
rahul_votes = rahul_entries['Margin'].values
modi_votes = modi_entries['Margin'].values[0] if not
modi_entries.empty else 0
amit_votes = amit_entries['Margin'].values[0] if not
amit_entries.empty else 0

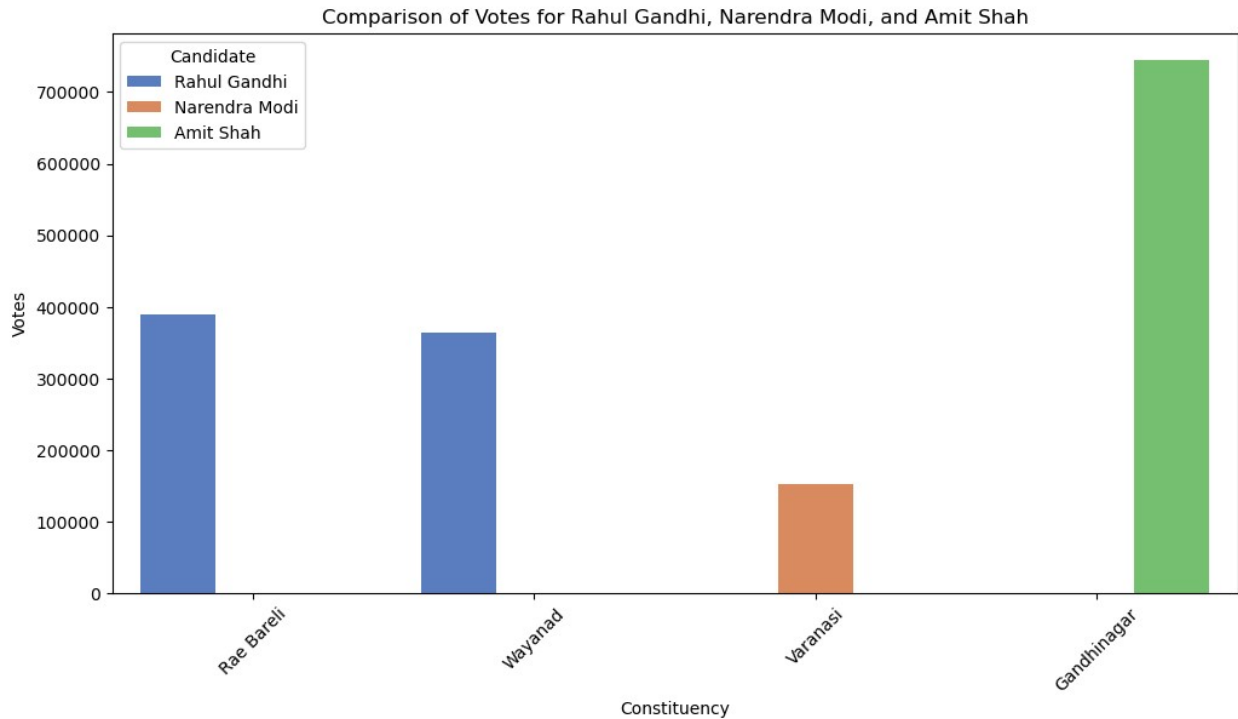
# Get the original constituency names for Rahul Gandhi
rahul_constituencies = list(rahul_entries['Constituency'])

# Get the original constituency name for Narendra Modi
modi_constituency = modi_entries['Constituency'].values[0] if not
modi_entries.empty else "Modi Constituency"

# Get the original constituency name for Amit Shah
amit_constituency = amit_entries['Constituency'].values[0] if not
amit_entries.empty else "Amit Shah Constituency"

# Combine the data
data_to_plot = pd.DataFrame({
    'Candidate': ['Rahul Gandhi'] * len(rahul_votes) + ['Narendra
Modi', 'Amit Shah'],
    'Constituency': rahul_constituencies + [modi_constituency,
amit_constituency],
    'Votes': list(rahul_votes) + [modi_votes, amit_votes]
})

# Plot the comparison
plt.figure(figsize=(12, 6))
sns.barplot(data=data_to_plot, x='Constituency', y='Votes',
hue='Candidate', palette='muted')
plt.title('Comparison of Votes for Rahul Gandhi, Narendra Modi, and
Amit Shah')
plt.xlabel('Constituency')
plt.ylabel('Votes')
plt.xticks(rotation=45)
plt.show()
```

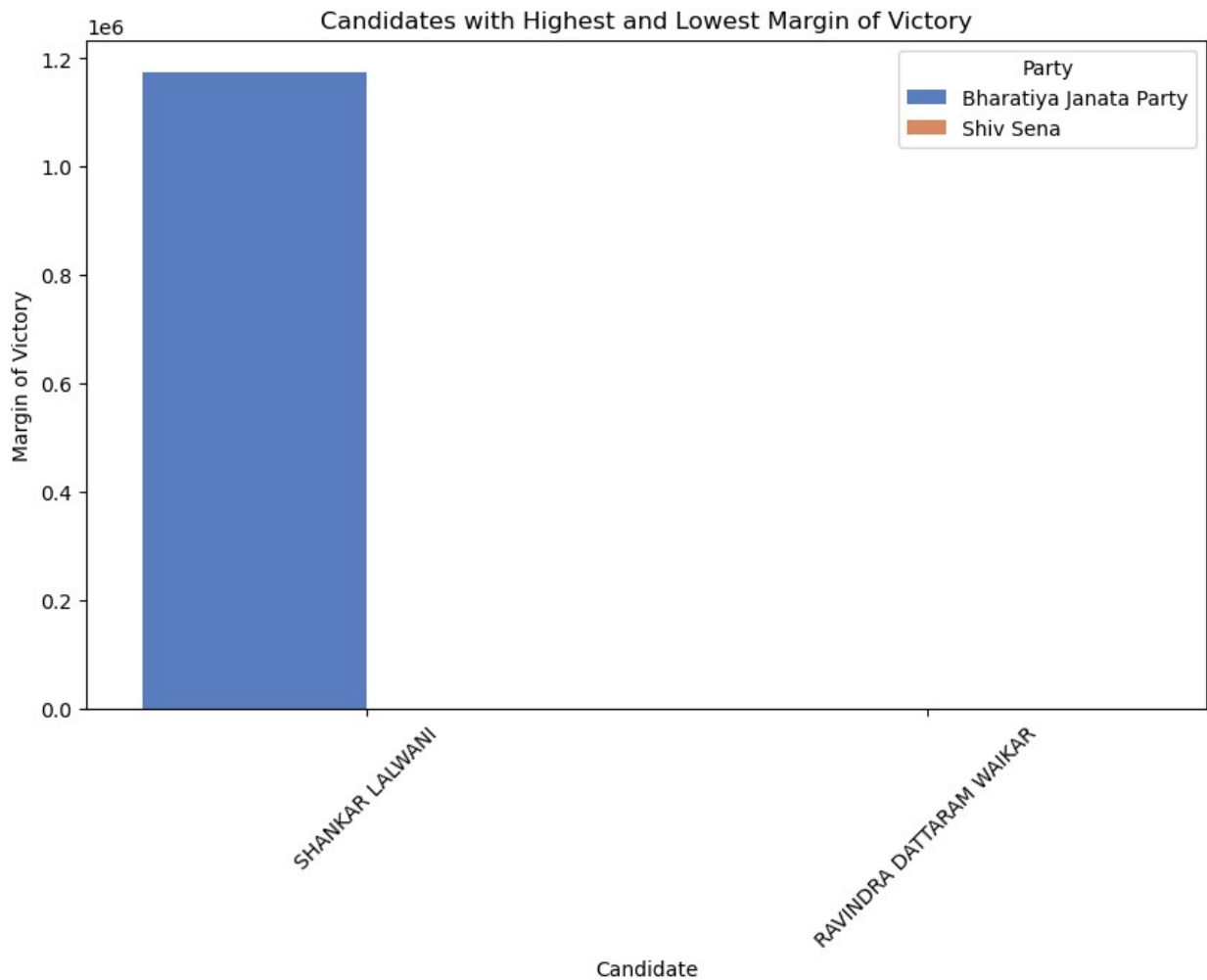


Highest and lowest Victory Candidate

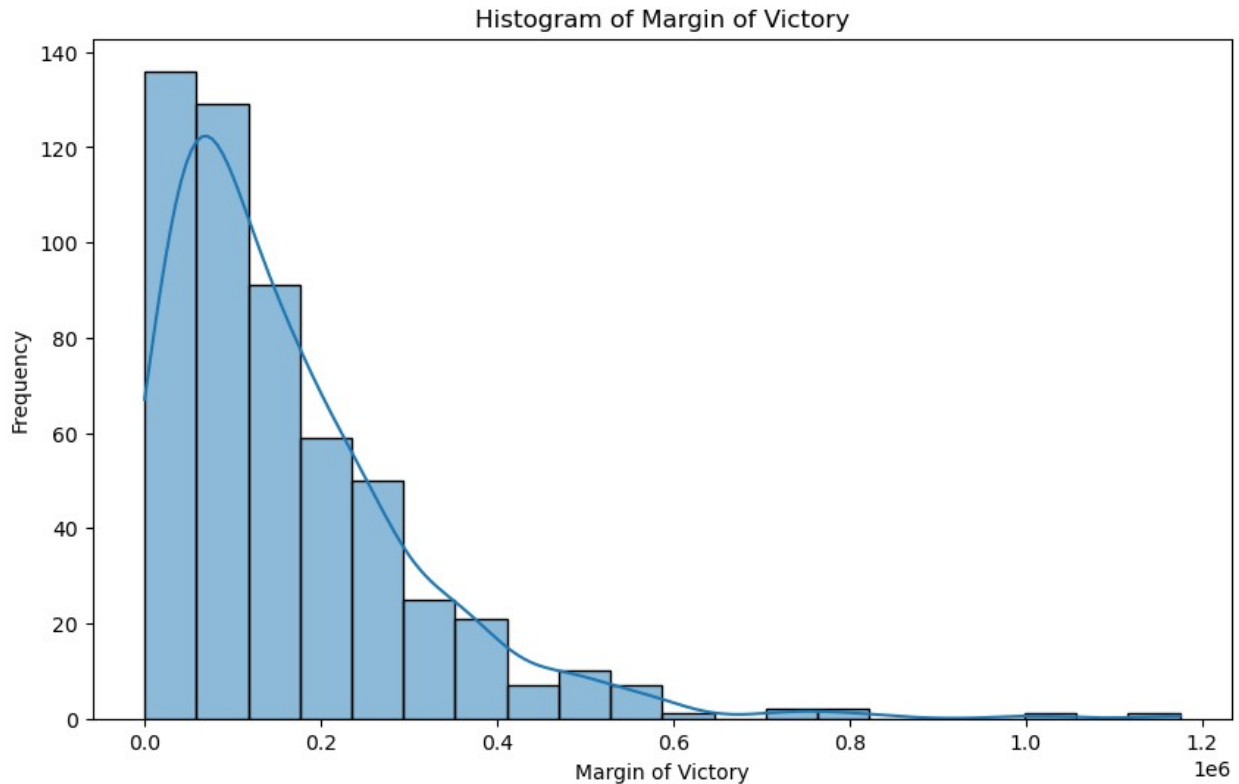
```
highest_margin_entry = data.loc[data['Margin'].idxmax()]
lowest_margin_entry = data.loc[data['Margin'].idxmin()]

# Combine the data
data_to_plot = pd.DataFrame({
    'Candidate': [highest_margin_entry['Leading Candidate'],
lowest_margin_entry['Leading Candidate']],
    'Party': [highest_margin_entry['Leading Party'],
lowest_margin_entry['Leading Party']],
    'Margin': [highest_margin_entry['Margin'],
lowest_margin_entry['Margin']]
})

# Plot the comparison
plt.figure(figsize=(10, 6))
sns.barplot(data=data_to_plot, x='Candidate', y='Margin', hue='Party',
palette='muted')
plt.title('Candidates with Highest and Lowest Margin of Victory')
plt.xlabel('Candidate')
plt.ylabel('Margin of Victory')
plt.xticks(rotation=45)
plt.show()
```



```
plt.figure(figsize=(10, 6))
sns.histplot(data['Margin'], bins=20, kde=True)
plt.title('Histogram of Margin of Victory')
plt.xlabel('Margin of Victory')
plt.ylabel('Frequency')
plt.show()
```



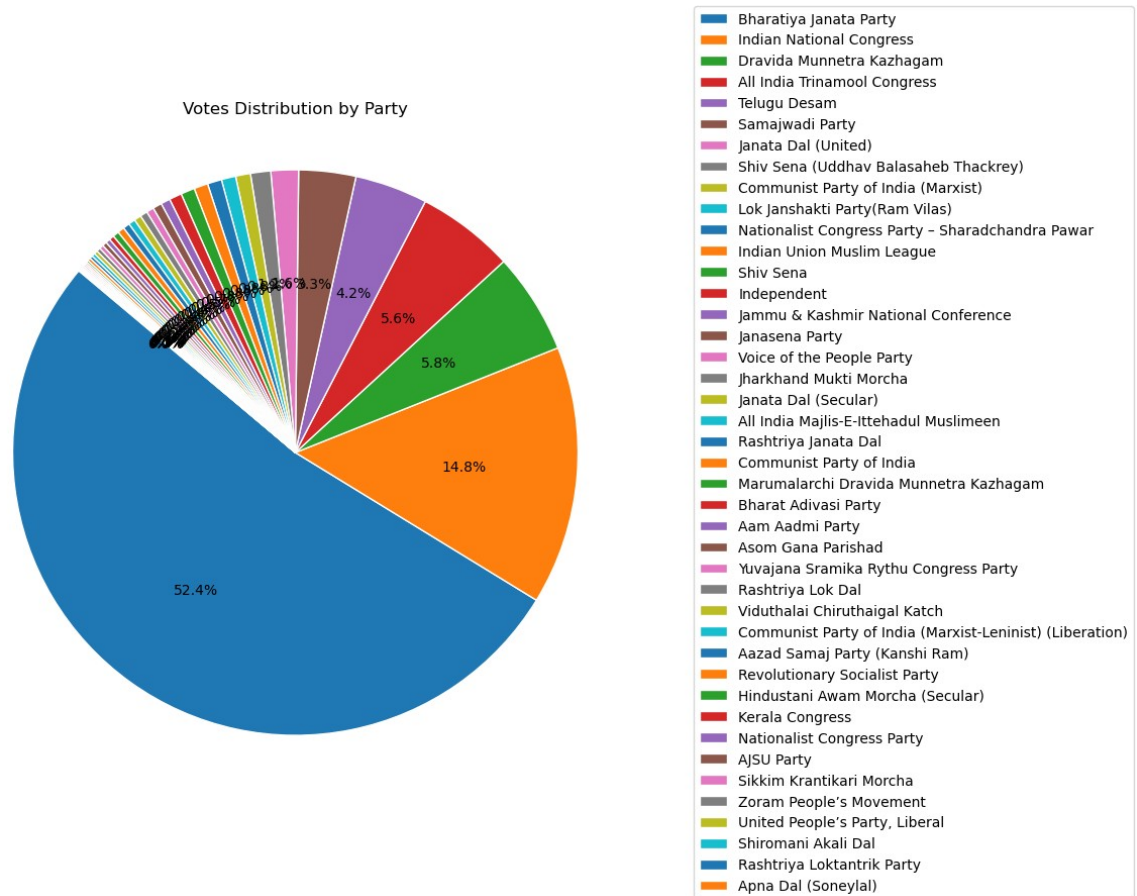
Votes distribution by party

```
party_votes = data.groupby('Leading Party')
['Margin'].sum().sort_values(ascending=False)

# Plot pie chart
plt.figure(figsize=(10, 8))
wedges, texts, autotexts = plt.pie(party_votes, labels=None,
    autopct='%1.1f%%', startangle=140, wedgeprops=dict(edgecolor='w'))
plt.title('Votes Distribution by Party', pad=20)
plt.axis('equal')

plt.legend(labels=party_votes.index, loc='center left',
    bbox_to_anchor=(1, 0.5), fontsize='medium')

plt.show()
```



Top 10 trailing party by VOTE

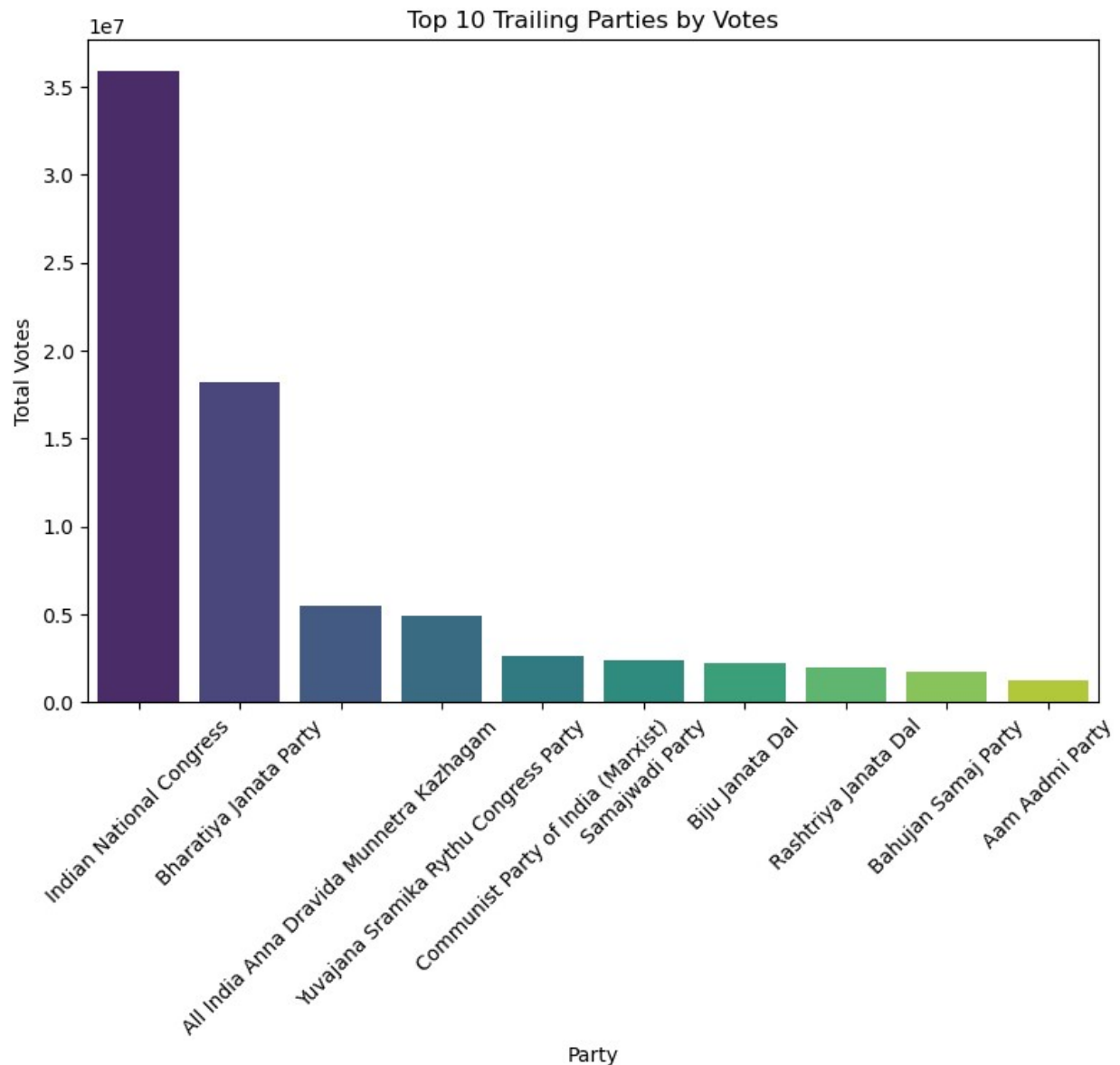
```
trailing_party_votes = data.groupby('Trailing Party')
['Margin'].sum().sort_values(ascending=False)
trailing_party_seats = data['Trailing Party'].value_counts()

plt.figure(figsize=(20, 6))

# Plot votes distribution by trailing party
plt.subplot(1, 2, 1)
sns.barplot(x=trailing_party_votes.index[:10],
            y=trailing_party_votes.values[:10], palette='viridis')
plt.title('Top 10 Trailing Parties by Votes')
plt.xlabel('Party')
plt.ylabel('Total Votes')
plt.xticks(rotation=45)

(array([0, 1, 2, 3, 4, 5, 6, 7, 8, 9]),
 [Text(0, 0, 'Indian National Congress'),
  Text(1, 0, 'Bharatiya Janata Party'),
  Text(2, 0, 'All India Anna Dravida Munnetra Kazhagam'),
```

```
Text(3, 0, 'Yuvajana Sramika Rythu Congress Party'),
Text(4, 0, 'Communist Party of India (Marxist)'),
Text(5, 0, 'Samajwadi Party'),
Text(6, 0, 'Biju Janata Dal'),
Text(7, 0, 'Rashtriya Janata Dal'),
Text(8, 0, 'Bahujan Samaj Party'),
Text(9, 0, 'Aam Aadmi Party']])
```



Top 10 trailing party by SEAT

```
plt.figure(figsize=(20, 6))
plt.subplot(1, 2, 2)
```

```

sns.barplot(x=trailing_party_seats.index[:10],
y=trailing_party_seats.values[:10], palette='viridis')
plt.title('Top 10 Trailing Parties by Seats')
plt.xlabel('Party')
plt.ylabel('Number of Seats')
plt.xticks(rotation=45)

plt.tight_layout()
plt.show()

```

