

Election Results Analysis-2024

Import Lib

```
# for dataset storing
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import numpy as np

# for visualization
import plotly.express as px
import plotly.offline as py
# for indian map visualization
from geopy.geocoders import Nominatim
import warnings

data = pd.read_csv('\election_results_2024.csv')
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

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()]

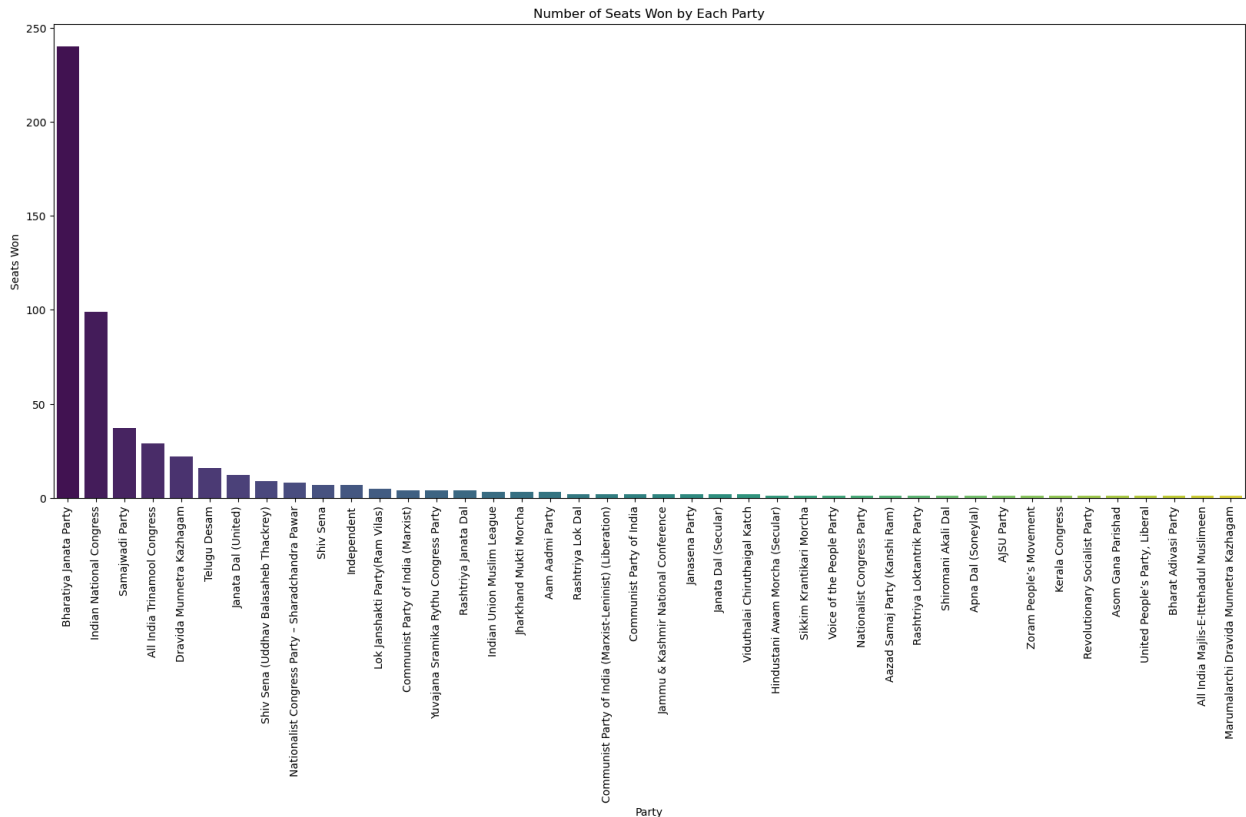
```

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()

```



Top margin Achieved by party

```
top_20 = data.sort_values(by='Margin',ascending=False).head(20)
```

```
# Create the bar plot
```

```
fig = px.bar(top_20,x='Leading Party', y='Margin', title='Top margin  
Achieved by party',  
             color_discrete_sequence=['gold', 'silver', 'brown'])
```

```
py.init_notebook_mode(connected=True)
```

```
fig.show()
```

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Janata Party","Indian National Congress","Indian National
```

```

Congress","Bharatiya Janata Party","Bharatiya Janata Party","Bharatiya
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```

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'])

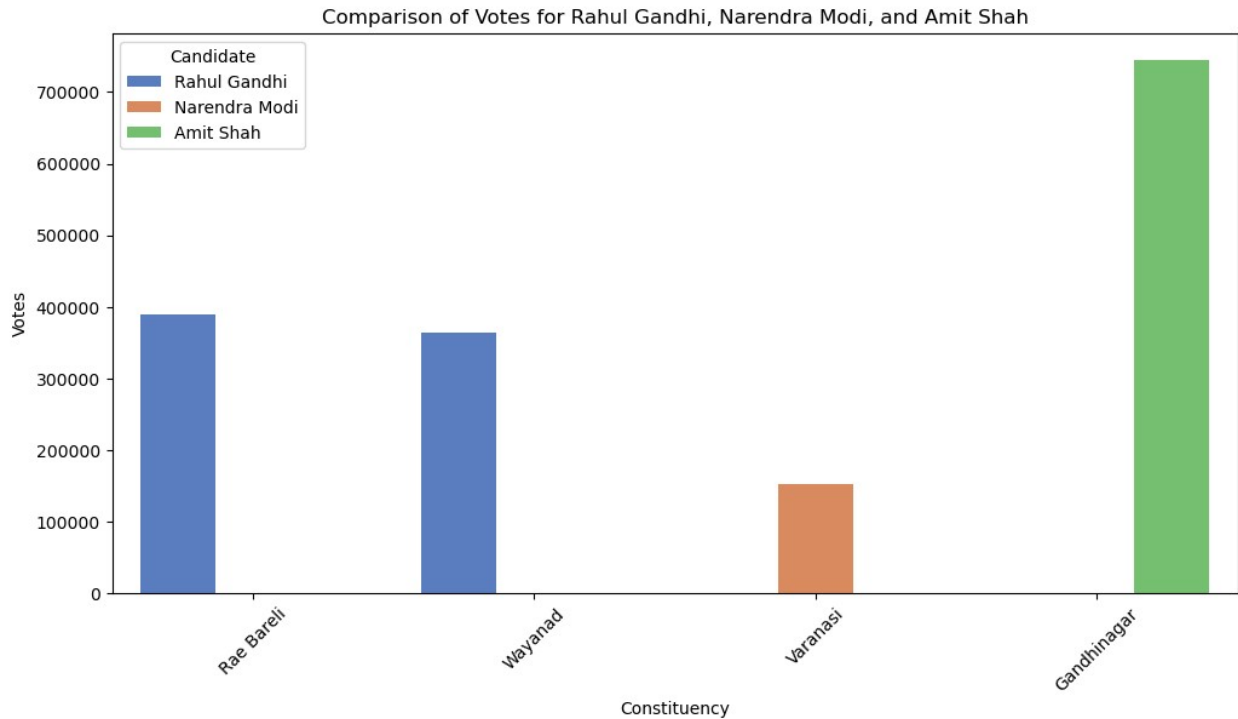
# Get the original constituency name for Narendra Modi
modi_constituency = modi_entries['Constituency'].values[0] if not
modi_entries.empty else "Modi Constituency"

# 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()

```

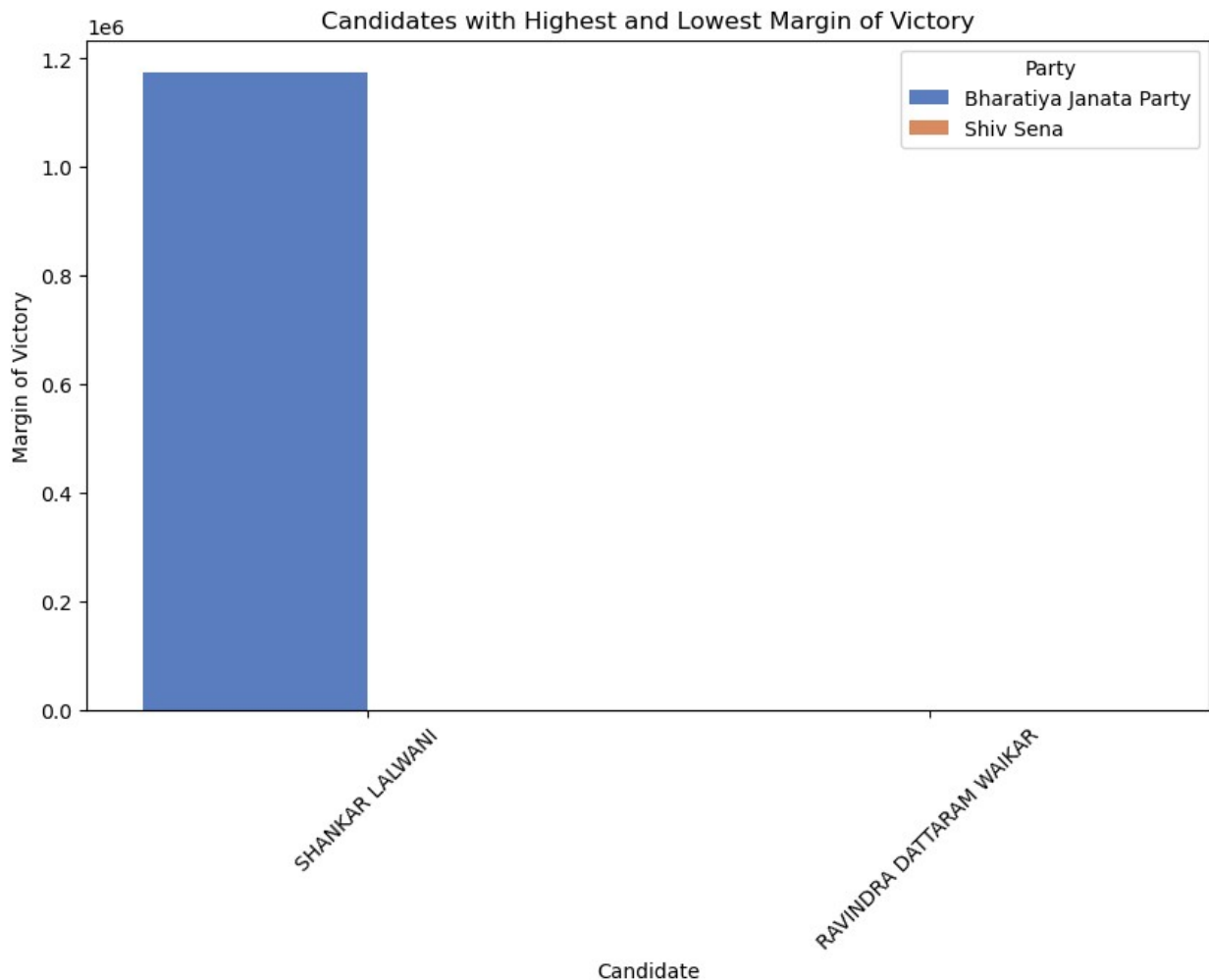


Highest and lowest Victory Candidate

```
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()
```

Distribution of Margin of Victory

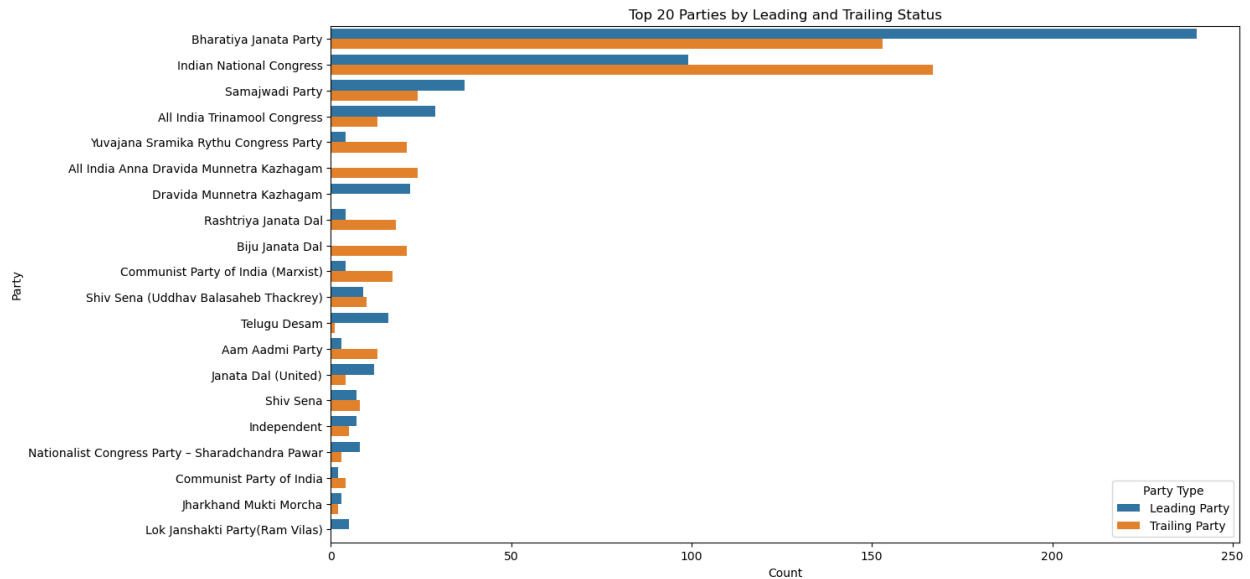
```
plt.figure(figsize=(10, 6))
sns.histplot(data['Margin'], bins=20, kde=True)
plt.title('Histogram of Margin of Victory')
plt.xlabel('Margin of Victory')
plt.ylabel('Frequency')
plt.show()
```

Leading party vs Trailing party

```
def leading_vs_trailing_parties(data, n=20):
    leading_trailing = data.melt(id_vars=['Constituency'],
                                value_vars=['Leading Party', 'Trailing Party'],
                                var_name='Party Type',
                                value_name='Party')
    top_n_parties = leading_trailing['Party'].value_counts().index[:n]
    leading_trailing =
    leading_trailing[leading_trailing['Party'].isin(top_n_parties)]
```

```
plt.figure(figsize=(14, 8))
sns.countplot(y='Party', hue='Party Type', data=leading_trailing,
order=top_n_parties)
plt.title(f'Top {n} Parties by Leading and Trailing Status')
plt.xlabel('Count')
plt.ylabel('Party')
plt.show()

leading_vs_trailing_parties(data, n=20)
```



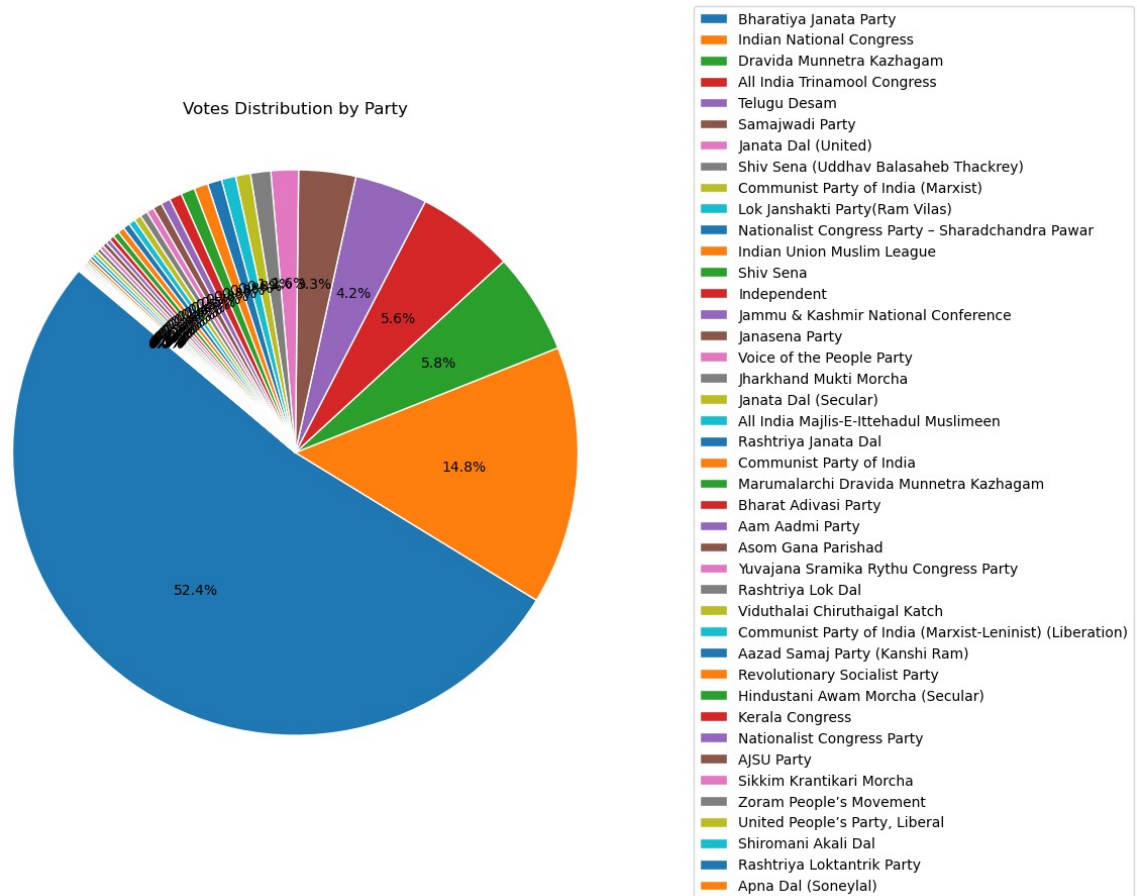
Votes distribution by party

```
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()
```



State wise party distribution

```
data['location'] = data['Constituency']+", "+"INDIA"
data.head(2)
```

	Constituency	Const. No.	Leading Candidate	Leading Party
0	AJMER	13	BHAGIRATH CHOUDHARY	Bharatiya Janata Party
1	ALWAR	8	BHUPENDER YADAV	Bharatiya Janata Party

	Trailing Candidate	Trailing Party	Margin	Status
0	RAMCHANDRA CHOUDHARY	Indian National Congress	329991.0	Result Declared
1	LALIT YADAV	Indian National Congress	48282.0	Result Declared

	location
0	AJMER, INDIA
1	ALWAR, INDIA

```

geolocator = Nominatim(user_agent="lokshaba_geocoder")
# Apply geocoding to each row
data['Location'] = data['location'].apply(lambda x:
geolocator.geocode(x))

data['Latitude'] = data['Location'].apply(lambda loc: loc.latitude if
loc else None)
data['Longitude'] = data['Location'].apply(lambda loc: loc.longitude
if loc else None)

# Drop the Location column if needed
data.drop(columns=['Location'], inplace=True)

import warnings

# Suppress the specific FutureWarning
warnings.filterwarnings("ignore", category=FutureWarning,
module="plotly")

# Create a scatter map
fig1 = px.scatter_geo(data, lat='Latitude', lon='Longitude',
color='Leading Party', hover_name='Constituency',
                        title='State wise party dominance')
fig2 = px.scatter_geo(data, lat='Latitude', lon='Longitude',
color='Trailing Party', hover_name='Constituency',
                        title='State wise party trailing')
fig.update_layout(
    autosize=True,
    height=600,
    geo=dict(
        center=dict(lat=20.5937, lon=78.9629), # Center coordinates
for India
        scope="asia", # Draw the area by continent (Asia)
        projection_scale=4, # Adjust the zoom level (higher values
zoom in)
    )
)

py.init_notebook_mode(connected=True)

fig1.show()

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Suppress the specific FutureWarning

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warnings.filterwarnings("ignore", category=FutureWarning,
module="plotly")

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fig2 = px.scatter_geo(data, lat='Latitude', lon='Longitude',
color='Trailing Party', hover_name='Constituency',
title='State wise party trailing')

```

```

fig.update_layout(
    autosize=True,
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    geo=dict(
        center=dict(lat=20.5937, lon=78.9629), # Center coordinates
for India
        scope="asia", # Draw the area by continent (Asia)
        projection_scale=4, # Adjust the zoom level (higher values
zoom in)
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fig2.show()

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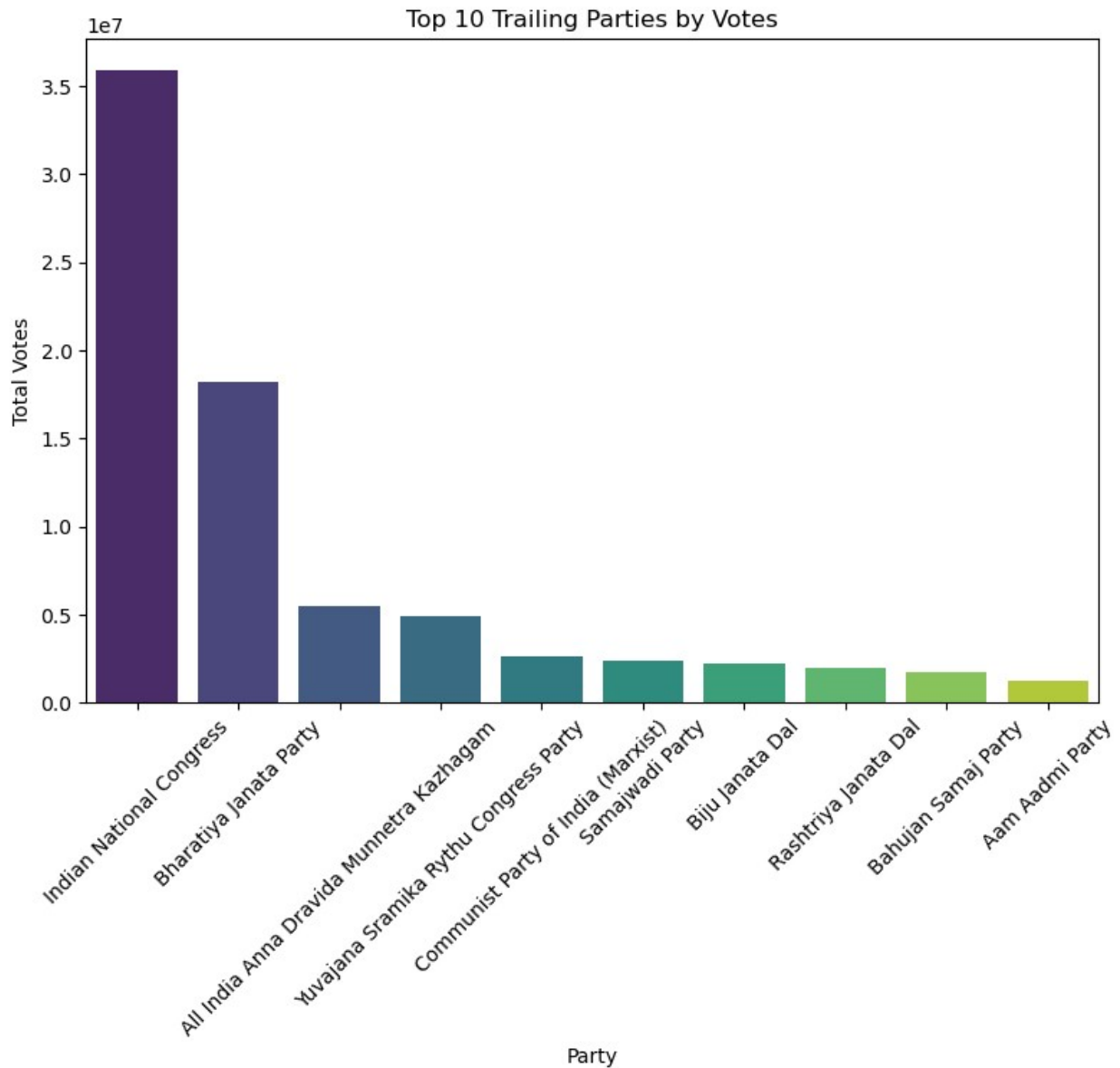
Top 10 trailing party by VOTE

```
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)

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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()
```

