

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

# Sample data (Replace with actual data)
data = {
    'Party': ['BJP', 'Congress', 'Others'],
    'Seats': [303, 52, 188],
}

# Convert data to DataFrame
df = pd.DataFrame(data)

# Plot seat distribution
plt.figure(figsize=(10, 6))
sns.barplot(x='Party', y='Seats', data=df)
plt.title('Seat Distribution by Party')
plt.xlabel('Party')
plt.ylabel('Seats')
plt.savefig('seat_distribution.png')
plt.show()

# Voter turnout data
voter_turnout_data = {
    'Party': ['BJP', 'Congress', 'Others'],
    'Voter Turnout': [67.11, 67.11, 67.11],
}

df_voter_turnout = pd.DataFrame(voter_turnout_data)

# Plot voter turnout
plt.figure(figsize=(10, 6))
sns.barplot(x='Party', y='Voter Turnout', data=df_voter_turnout)
plt.title('Voter Turnout by Party')
plt.xlabel('Party')
plt.ylabel('Voter Turnout (%)')
plt.savefig('voter_turnout.png')
plt.show()

# Women MPs data
women_mps_data = {
    'Party': ['Total'],
    'Women MPs': [78],
}

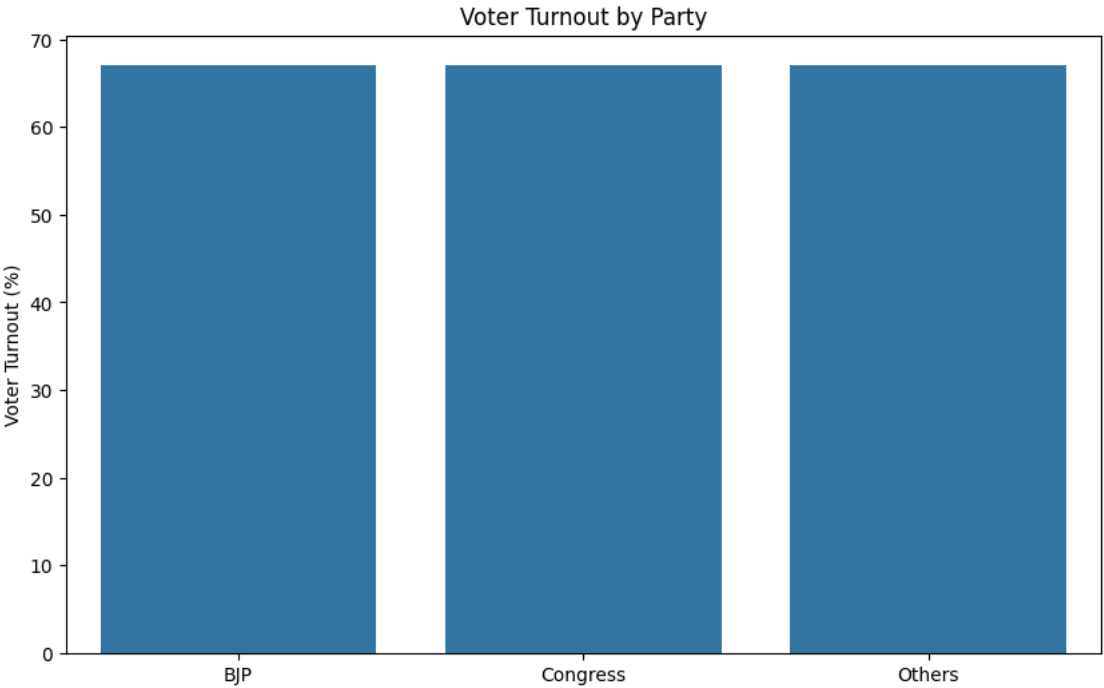
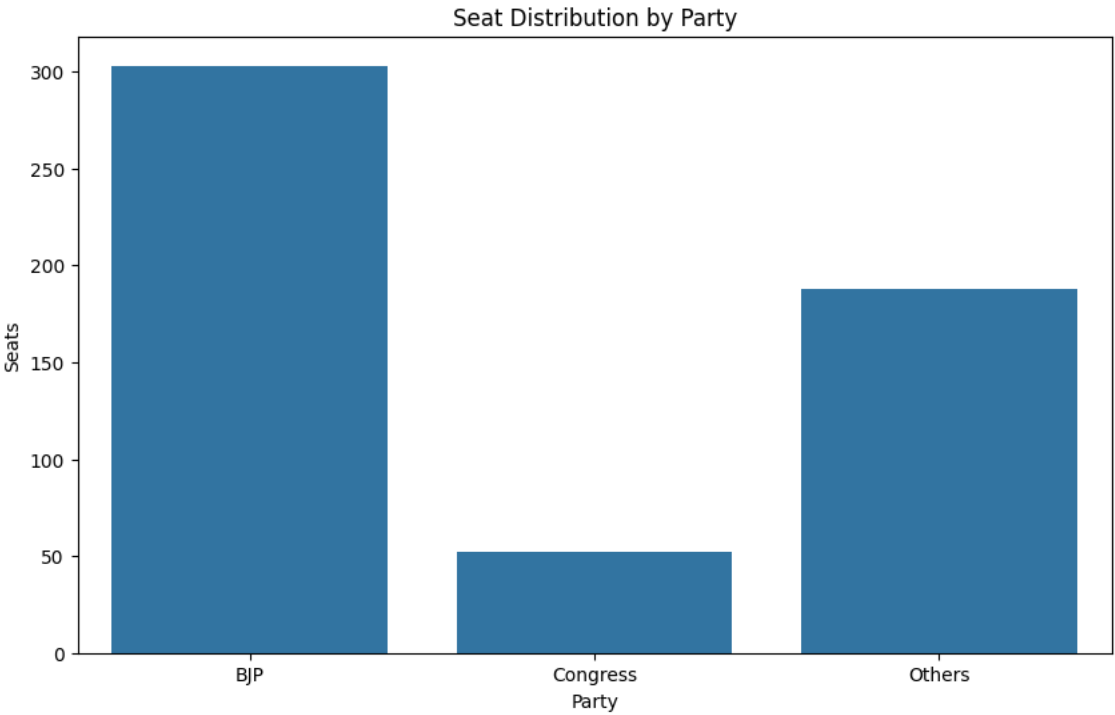
df_women_mps = pd.DataFrame(women_mps_data)

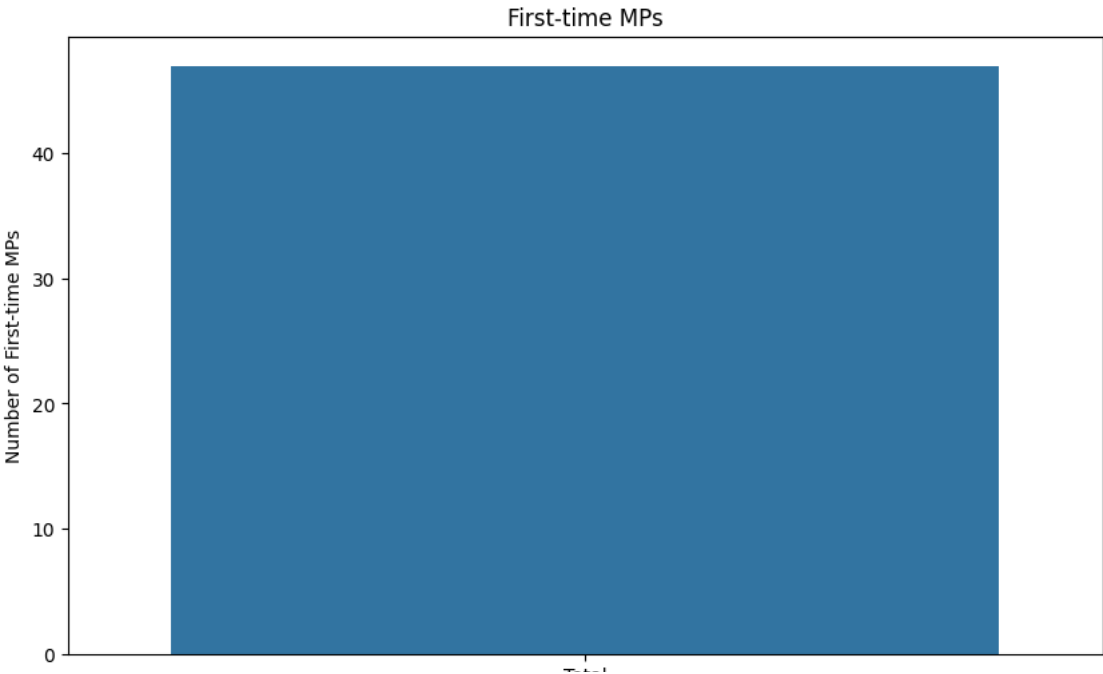
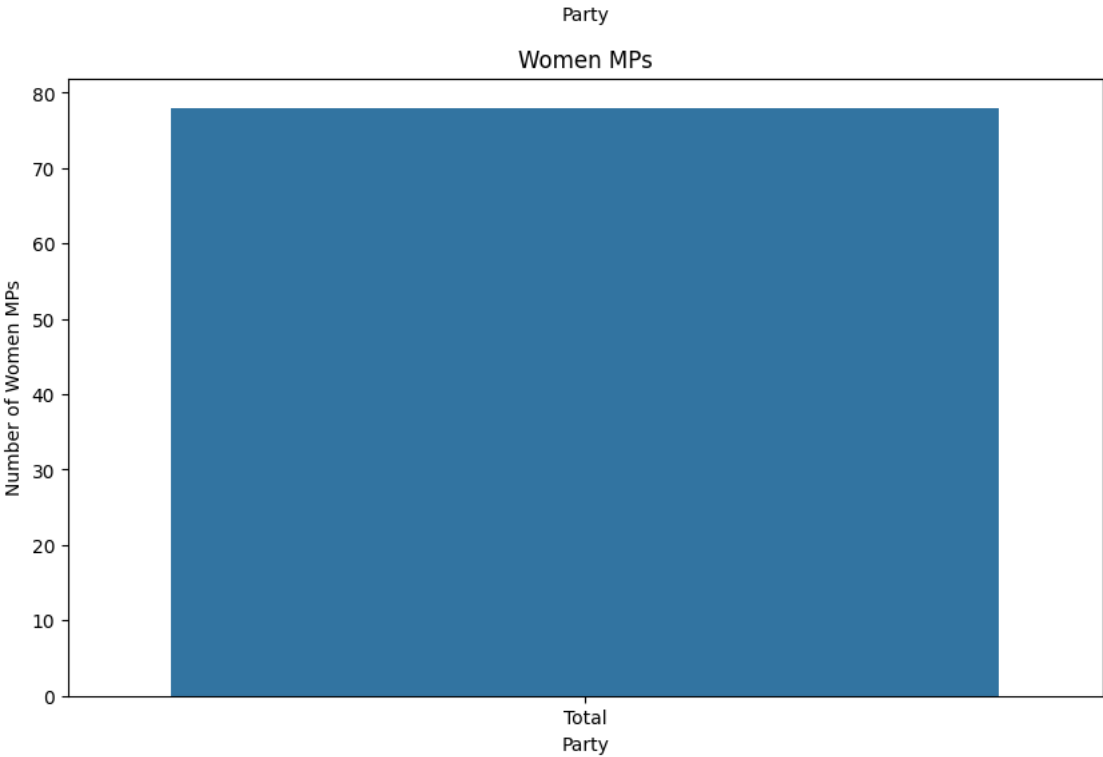
# Plot women MPs
plt.figure(figsize=(10, 6))
sns.barplot(x='Party', y='Women MPs', data=df_women_mps)
plt.title('Women MPs')
plt.xlabel('Party')
plt.ylabel('Number of Women MPs')
plt.savefig('women_mps.png')
plt.show()
```

```
# First-time MPs data
first_time_mps_data = {
    'Party': ['Total'],
    'First-time MPs': [47],
}

df_first_time_mps = pd.DataFrame(first_time_mps_data)

# Plot first-time MPs
plt.figure(figsize=(10, 6))
sns.barplot(x='Party', y='First-time MPs', data=df_first_time_mps)
plt.title('First-time MPs')
plt.xlabel('Party')
plt.ylabel('Number of First-time MPs')
plt.savefig('first_time_mps.png')
plt.show()
```





total
Party

```
# Create and open the report.md file
with open('report.md', 'w') as file:
    content = ""
# Lok Sabha Election 2024 Report
```

Introduction

The recent Lok Sabha elections have concluded, revealing significant insights into the political landscape of India. This report presents key findings from the election results.

Key Insights

- Overall Winner**: BJP emerged as the winner with 303 seats out of 543.
- Voter Turnout**: The voter turnout was 67.11%, a slight increase from the previous election.
- Major Parties Performance**: BJP won 303 seats, Congress won 52 seats, and other major parties performed variably.
- Regional Strongholds**: BJP dominated in Uttar Pradesh with 62 seats, while TMC led in West Bengal with 22 seats.
- First-time MPs**: There are 47 first-time MPs, indicating a shift towards new leadership.
- Gender Representation**: The number of women elected increased to 78, up from 62 in the last election.
- Victory Margins**: Close contests were observed in constituencies like Amethi with margins of less than 1,000 votes.
- Historical Comparison**: Compared to the last election, BJP gained 21 seats while Congress gained 8 seats.
- Notable Wins**: Prominent leaders such as Narendra Modi (Varanasi) and Rahul Gandhi (Wayanad) secured significant victories.
- Key Issues Impact**: Issues such as development, national security, and the economy played a significant role in the outcomes.

Visualizations

Seat Distribution by Party

![Seat Distribution](seat_distribution.png)

Voter Turnout by Party

![Voter Turnout](voter_turnout.png)

Women MPs by Party