Python code to filter the data of election poll result 2024

Importing Required Libraries:

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

Loading Data:

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

Group Data by Leading Party and Summing the Margin:

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

Filtering data 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']
```

Extracting vote margins for the candidates

```
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
```

Getting the constituency names for Rahul Gandhi, Narendra Modi, and Amit Shah

```
rahul_constituencies = list(rahul_entries['Constituency'])
modi_constituency = modi_entries['Constituency'].values[0] if not modi_entries.empty else
"Modi Constituency"
amit_constituency = amit_entries['Constituency'].values[0] if not amit_entries.empty else
"Amit Shah Constituency"
```

Identifying the candidate with the highest and lowest margin

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

Creating a new DataFrame to show the highest and lowest margin candidates

```
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']]
})
```