Lokshabha 2024 Election

July 26, 2024

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#LOKSHABHA ELECTION 2024 RESULT DATA ANALYSIS
 [4]: #importing libraries
      import pandas as pd
      import seaborn as sns
      import matplotlib.pyplot as plt
 [6]: #reading our dataset
      data=pd.read_csv(r"C:\Users\devis\OneDrive\Desktop\python data_
       →analysis\election_results_2024.csv")
 [8]: data.head()
 [8]:
                           Const. No.
                                         Leading Candidate
             Constituency
      0
                    AJMER
                                   13 BHAGIRATH CHOUDHARY
      1
                    ALWAR
                                    8
                                           BHUPENDER YADAV
      2
                   AMBALA
                                    1
                                            VARUN CHAUDHRY
      3
        ANANTNAG-RAJOURI
                                    3
                                          MIAN ALTAF AHMAD
                                    7
      4
                ARAKKONAM
                                         S JAGATHRATCHAKAN
                               Leading Party
                                                 Trailing Candidate
      0
                      Bharatiya Janata Party
                                              RAMCHANDRA CHOUDHARY
                      Bharatiya Janata Party
      1
                                                        LALIT YADAV
      2
                    Indian National Congress
                                                      BANTO KATARIA
        Jammu & Kashmir National Conference
                                                     MEHBOOBA MUFTI
      3
      4
                   Dravida Munnetra Kazhagam
                                                          L VIJAYAN
                                   Trailing Party Margin
                                                                     Status
      0
                         Indian National Congress
                                                   329991
                                                           Result Declared
      1
                         Indian National Congress
                                                           Result Declared
                                                     48282
      2
                           Bharatiya Janata Party
                                                     49036 Result Declared
        Jammu & Kashmir Peoples Democratic Party
      3
                                                    281794
                                                           Result Declared
         All India Anna Dravida Munnetra Kazhagam
                                                    306559
                                                           Result Declared
[10]: #Party with highest and lowest margin of victory
[12]: party_votes=data.groupby('Leading Party')['Margin'].sum().
       ⇒sort_values(ascending=False)
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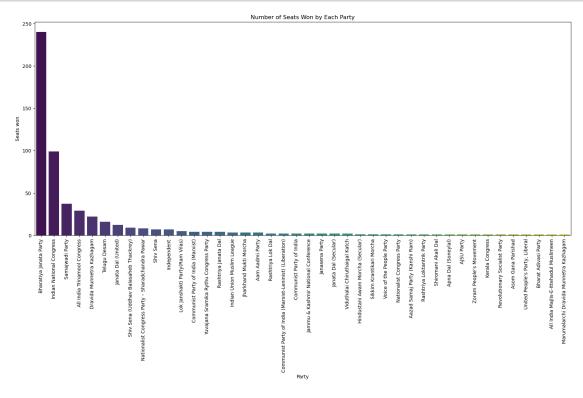
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data['Margin']=pd.to_numeric(data['Margin'],errors='coerce')

#Party with highest and lowest margin of victory
highest_margin=data.loc[data['Margin'].idxmax()]
lowest_margin=data.loc[data['Margin'].idxmin()]
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[14]: #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()

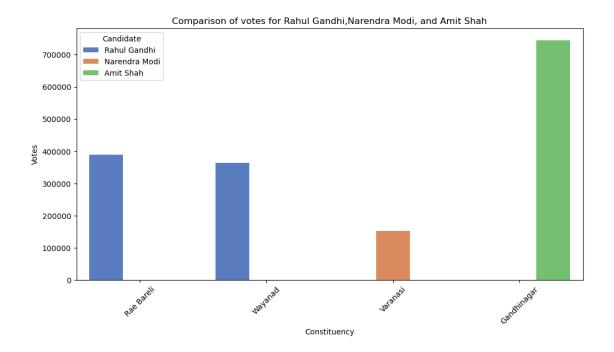
#Plot number of seats won by each party
plt.figure(figsize=(20,8))
sns.barplot(x=seats_won.index,y=seats_won.values,palette='viridis')
plt.title('Number of Seats Won by Each Party')
plt.xlabel('Party')
plt.ylabel('Seats won')
plt.xticks(rotation=90)
plt.show()
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[16]: #Get the votes for Rahul Gandhi, Narendra Modi, and Amit Shah

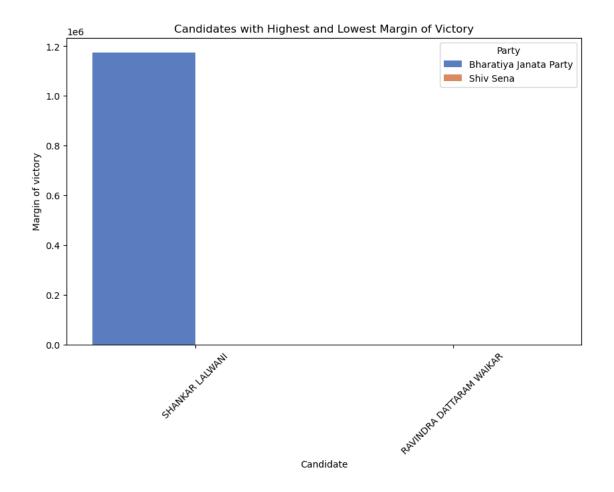
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[18]: rahul_entries=data[data['Leading Candidate'] == 'RAHUL GANDHI']
     modi_entries=data[data['Leading Candidate'] == 'NARENDRA MODI']
     amit_entries=data[data['Leading Candidate'] == 'AMIT SHAH']
      #Get the votes for Rahul Gandhi, Narendra 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 "Mo"
      ##Get the original constituency name for Amit Shah
     amit_constituency=amit_entries['Constituency'].values[0] if not amit_entries.
       ⇔empty else "Am"
      #Combine the data
     data_to_plot=pd.DataFrame({
          'Candidate':['Rahul Gandhi']*len(rahul_votes) +['Narendra Modi','Amit_

Shah'],
          'Constituency': rahul constituencies +
       'Votes': list(rahul_votes) + [modi_votes,amit_votes]
     })
      #Plot the comparison
     plt.figure(figsize=(12,6))
       abarplot(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()
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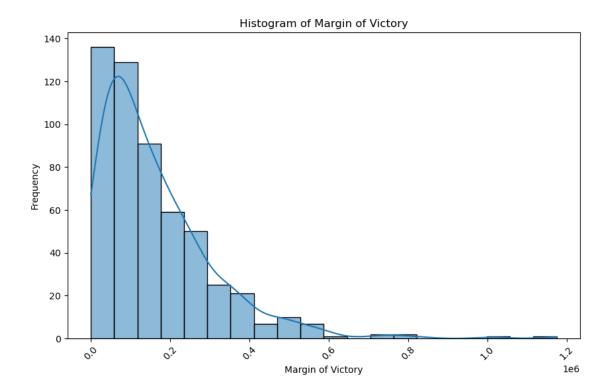
[20]: #Highest and Lowest Victory Candidate

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[22]: 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_
      '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()
```

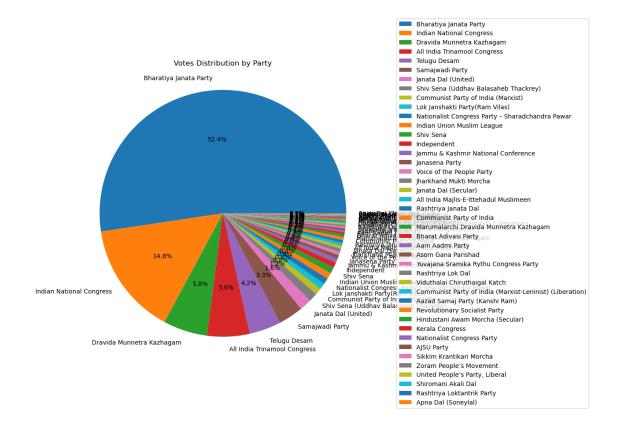


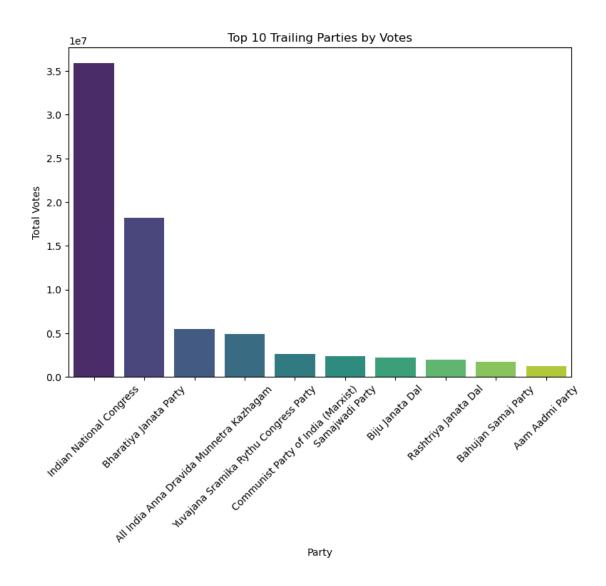
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[24]: plt.figure(figsize=(10,6))
    sns.histplot(data['Margin'],bins=20,kde=True)
    plt.title("Histogram of Margin of Victory")
    plt.xlabel('Margin of Victory')
    plt.ylabel('Frequency')
    plt.xticks(rotation=45)
    plt.show()
```

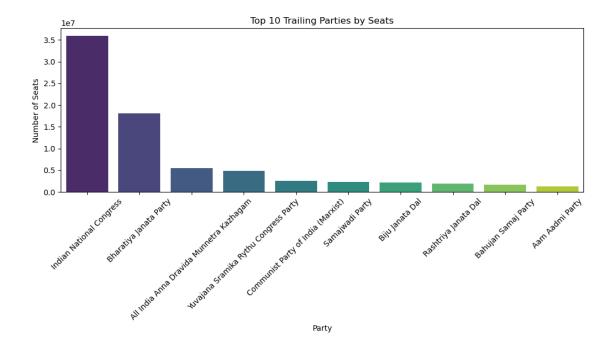
C:\Users\devis\anaconda3\Lib\site-packages\seaborn_oldcore.py:1119:
FutureWarning: use_inf_as_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.
 with pd.option_context('mode.use_inf_as_na', True):



[26]: #VOTES DISTRIBUTION BY PARTY







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