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| DATA ANALYSIS |
| **ELECTION’S DATABASE ANALYSIS -2024** |

**P Y T H O N / ML**

1. Importing Dataset – Pandas library
2. EDA
   1. Leading party by Margins – Groupby
      1. Plot bar graph
   2. New data frame of each Name filtered: Rahul , Modi, Amit shah and their Margins , constituency
      * + O/P : | Name | Constituency | Votes |
        + Plot bar graph (constituency vs Votes) hue -> candidates
   3. Highest and Lowest Victory Candidates
      * + O/P : | Name | Party | Votes |
        + Use input function to fetch required result
   4. Votes dist. by party
      * + Plot graph
   5. Top 10 trailing parties
      * + Plot parties by sum[Margin]
        + Plot Parties by %(count[constituencies fought] – count[Constituencies won])

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**Power BI**

DAX OPERATIONS

Using above insights via Power BI

* + - * Deleted constituency number column
      * Removed duplicates from Constituency column
      * Empty removed from Trailing Party, Leading Party and Margins

Separate score cards for Top 3 Parties

* SWP = CALCULATE(COUNTA(election\_results\_2024[Constituency]), election\_results\_2024[Leading Party] = "Samajwadi Party")
* BJPcount = CALCULATE(COUNTA(election\_results\_2024[Constituency]), election\_results\_2024[Leading Party] = "Bharatiya Janata Party")
* INCcount = CALCULATE(COUNTA(election\_results\_2024[Constituency]), election\_results\_2024[Leading Party] = "Indian National Congress")

Score card for total votes by each party

* Create a new table

Parties = DISTINCT(UNION(VALUES(election\_results\_2024[Leading Party]), VALUES(election\_results\_2024[Trailing Party])))

Using slicer

* Total\_Votes =

    VAR select\_party = SELECTEDVALUE(Parties[All\_Party])

RETURN

    CALCULATE(SUM(election\_results\_2024[Margin]),

    FILTER(election\_results\_2024, election\_results\_2024[Leading Party] = select\_party || election\_results\_2024[Trailing Party] = select\_party)

    )

Highest & Lowest Victory Candidates

* Shankar lalwani -> Top margin victory

Hightest\_Margin\_Candidate =

    VAR HighestMargin = MAX(election\_results\_2024[Margin])

RETURN

    CALCULATE(VALUES(election\_results\_2024[Leading Candidate]),election\_results\_2024[Margin] = HighestMargin)

Lalwani\_Party = CALCULATE(VALUES(election\_results\_2024[Leading Party]), election\_results\_2024[Leading Candidate] = "SHANKAR LALWANI")

* Ravindra Dattaram -> least margin victory

Lowest Victory Margin =

    VAR least\_margin = MIN(election\_results\_2024[Margin])

RETURN

    CALCULATE(VALUES(election\_results\_2024[Leading Candidate]),election\_results\_2024[Margin] = least\_margin)

Ravindra\_party = CALCULATE(VALUES(election\_results\_2024[Leading Party]), election\_results\_2024[Leading Candidate] = "RAVINDRA DATTARAM WAIKAR")

Vote distribution by party

MarginPercentage =

    DIVIDE(

        SUM(election\_results\_2024[Margin]),

        CALCULATE(SUM(election\_results\_2024[Margin]), ALL(election\_results\_2024))

    )