

# Maharashtra Election Analysis

(Assembly & Parliamentary)

## Dataset

- Assembly election dataset (Maharashtra)
- Parliamentary election Dataset (Maharashtra)
- Party Symbol Dataset
- AC Map
- PC Map

AC : - Assembly Constituency

PC :- Parliamentary Constituency

NOTE :- We used Assembly data of 2009, 2014 and 2019.

We used Parliamentary data of 2009, 2014, 2019 and 2024.

### Dataset Column (Assembly)

1. AC\_No (Assembly Number)
2. ST\_code (State Code)
3. ST\_Name (State Name)
4. Dist\_code (District Code)
5. Dist\_name (District Name)
6. AC\_name (Assembly Name)
7. PC\_no (Parliamentary constituency Number)
8. PC\_name (Parliamentary constituency Name)
9. Year (Election Year)
10. Election Name (Election with Year Eg. AC09, AC14, AC19)
11. Position (Candidate position in that Constituency)
12. Candidate (Name of Candidate)
13. Party (Candidate's Political Party)
14. Votes (Candidate's Vote)
15. Valid\_Votes (Total votes in that constituency)
16. Electors (Total Voters in that constituency)
17. Turnout % (Polling % for that constituency)
18. Voteshare % (Voteshare % of that candidate in that constituency)
19. Margin (Vote difference between two consecutive candidate)
20. Margin % (Margin % for that constituency)
21. Pid (Candidate ID)

## **Dataset Column (Parliamentary)**

1. State (State Name)
2. Election Name (Election with Year Eg. PC09, PC14, PC19, PC24)
3. PC\_no (Parliamentary constituency Number)
4. PC\_name (Parliamentary constituency Name)
5. Year (Election Year)
6. Position (Candidate position in that Constituency)
7. Candidate (Name of Candidate)
8. Party (Candidate's Political Party)
9. Votes (Candidate's Vote)
10. Valid\_Votes (Total votes in that constituency)
11. Electors (Total Voters in that constituency)
12. Turnout % (Polling % for that constituency)
13. Voteshare % (Voteshare % of that candidate in that constituency)
14. Margin (Vote difference between two consecutive candidate)
15. Margin % (Margin % for that constituency)

## **Dataset Column (AC map)**

1. AC\_No (Assembly Number)
2. ST\_code (State Code)
3. ST\_Name (State Name)
4. Dist\_code (District Code)
5. Dist\_name (District Name)
6. AC\_name (Assembly Name)
7. PC\_no (Parliamentary constituency Number)
8. PC\_name (Parliamentary constituency Name)
9. PC\_ID (Parliamentary Constituency ID)
10. Shape\_leng (For Map)
11. Shape\_Area (For Map)

## **Dataset Column (PC map)**

1. ST\_code (State Code)
2. ST\_Name (State Name)
3. PC\_no (Parliamentary constituency Number)
4. PC\_name (Parliamentary constituency Name)

## **Terms Explanation**

- Turnout % :- How many percentage Voters submit their votes in Election.  
$$\frac{\text{Total votes}}{\text{Electors}}$$
- Margin % :- Margin of that candidate divide by Total Votes.  
$$\frac{\text{Margin}}{\text{Total Votes.}}$$
- Electors :- Number of total eligible voters.
- Swing :- If the winner party change over the election in particular constituency then Swing is yeas otherwise no.
- AC refers to Assembly Constituency or Assembly Election.
- PC refers to Parliamentary Constituency or Parliamentary Election.

## **Maharashtra Legislative Assembly Election**

- Display the winning seats party wise using Column chart.
- Map which represents winner party using color.
- Seats win by Major party in alliance and the total contested seats(which is in red color) by that party.
- Filter page using election name, District and Assembly Name.
- On hover map display the winner and looser candidate of that assembly and parliamentary of that assembly.  
(AC14, AC19, PC14, PC19, PC24)  
Candidate with their Party and Votes.

## **Maharashtra Parliamentary Election**

- Display the winning seats party wise using Column chart.
- Map which represents winner party using color.
- Filter page using election name and PC Name.
- Seats win by Major party in alliance and the total contested seats(which is in red color) by that party.
- On hover map display the winner and looser candidate of that assembly and parliamentary of that assembly.  
(PC14, PC19, PC24)  
Candidate with their Party and Votes.

## **PC with AC election V1**

- In this Analysis we used boundary of assembly and color of Parliamentary Party.
- Display the winning seats party wise using Column chart.
- Map which represents winner party using color.
- Filter page using election name and PC Name.
- Seats win by Major party in alliance and the total contested seats(which is in red color) by that party.
- On hover map display the winner and looser candidate of that assembly and parliamentary of that assembly.  
(PC14, PC19, PC24)  
Candidate with their Party and Votes.

## **PC with AC election V2**

- In this we created data of parliamentary result Assembly wise.
- Each assembly color represent winner party during Parliamentary election.
- Display the winning seats party wise using Column chart.
- Map which represents winner party using color.
- Filter page using election name and PC Name.
- Seats win by Major party in alliance and the total contested seats(which is in red color) by that party.
- On hover map display the winner and looser candidate of that assembly and parliamentary of that assembly.  
(PC14, PC19, PC24)  
Candidate with their Party and Votes.

## Trend Analysis

- In this analysis we analyzed party trend during different election using their winning percentage.
- We consider AC14, AC19 ,PC14, PC19 and PC24 election for trend analysis.
- Line charts indicates the wining percentage during different election also user can select multiple party for comparison.
- Column chart represents the vote share percentage during different year.
- Card visual represents the winning seat and contested seats during different year.
- Select party from the filter pane.
- On hover visual display the winning seats of party.

## Turnout VS Margin – Assembly Election

- A scatter plot chart displaying Turnout % and Margin % shows the relationship between these two variables, with the color of the bubbles representing different political parties.
- + shape represent that particular assembly win by the same party and the ● shape represents that particular assembly change winner party during AC14 and AC19.
- Filter using assembly name and party.
- Also, user can filter using Margin % and Turnout % .
- The scroller visual display the seats win by each party.

## Assembly Election - Party Swing

- Two map which represent different assembly election for AC14 and AC19 which shows only assembly where the winner party change during election.
- Users can select party tiles to view which party has taken a seat from the previous winner.
- Also show seat count with party.

## Parliamentary Election - Party Swing

- Two map which represent different assembly election for PC19 and PC24 which shows only constituency where the winner party change during election.
- Users can select party tiles to view which party has taken a seat from the previous winner.
- Also show seat count with party.

## Compare AC14 vs AC19

- Display two assembly map with the major party of that election.
- Map for AC14 and AC19.

## **AC09 vs AC19**

- Display two assembly map with the party of that election.
- Map for AC09 and AC19.
- Filter using Party name.
- On hove display data of winner and looser candidate of AC09, AC14 and AC19.

## **PC09 vs PC24**

- Display two assembly map with the party of that election.
- Map for PC09 and PC19.
- Filter using Party name.
- On hove display data of winner and looser candidate of PC09, PC14, PC19 and PC24.

## **Strong Candidate of Assembly Election**

- Candidate who win in both election AC14 and AC19.
- Filter using District and Party.
- Also filter the swing positive or negative.
- Filter using party change or same of candidate.

## **Weak Candidate of Assembly Election**

- Candidate whose winning margin is less than 5%.
- Filter it using Ac name , Year, District name and party.

## **Bahubali Candidate of Parliamentary Election**

- Candidate who win in last three previous Parliamentary election PC14, PC19 and PC24.
- Filter using PC name and Party.
- Filter using party change or same of candidate.

## **Seat Analysis for Party**

- Kingdom :- Assembly where the same party elected during AC14, AC19, PC14, PC19 and PC24.
- Strong :- Assembly where same party elected during AC14, AC19 and PC24.
- Change :- Assembly where different party elected during assembly and parliamentary election.

## **Margin Analysis**

- Margin Slicer for assembly and it display the assembly name and map.
- Filter using Year and ac name.

## **Top Performer - Assembly Election**

- Slicer for indicate Top N number.
- Top N candidate on the basis of Voteshare.
- Top N Assembly on the basis of Turnout.
- Turnout Map where Dark Blue color indicate high turnout and Light blue color indicate low turnout.
- Filter using election name and party.

## **Top Performer – Parliamentary Election**

- Slicer for indicate Top N number.
- Top N candidate on the basis of Voteshare.
- Top N Constituency on the basis of Turnout.
- Turnout Map where Dark Blue color indicate high turnout and Light blue color indicate low turnout.
- Filter using election name and party.

## **King Maker Candidate – Assembly**

- King Maker Candidate :- Margin % of 3<sup>rd</sup> candidate is greater than the voteshare of winner candidate and the margin % and voteshare % is must be greater than 5%.
- Filter Using kingmaker candidate party , election name and district.
- Funnel chart which display the party and the kingmaker candidate count.
- Map button which navigate on map which indicate the assembly where kingmaker login apply in AC19, AC14 and AC19.

## **Godfather Candidate – Assembly**

- Godfather Candidate :- Candidate who won their both election during AC14 and AC19 but the opponent change.
- Filter using party and tile which indicate same party or different party.
- Funnel chart which display the party and the Godfather candidate count.

## **Party Rank – Assembly Election**

- Shows the map with the assembly and color indicate the AC19 position of the party in the assembly.
- Filter using party AC14 Position and AC19 Position.
- Shows the count of assembly.

## **Party Rank – Parliamentary Election**

- Shows the map with the assembly and color indicate the PC24 position of the party in the constituency.
- Filter using party PC14 Position, PC19 Position and PC24.
- Shows the count of Constituency.

## **Detail AC**

- Shows the candidate of AC14 and AC19.
- Assembly map.
- Turnout of AC14 and AC19.
- Line chart indicate the different in vote share during different election year.

## **Detail PC**

- Shows the candidate of PC14, PC19 and PC24.
- Constituency map.
- Turnout of PC14, PC19 and PC24.
- Line chart indicate the different in vote share during different election year.