Introduction

- The forthcoming general elections in India are set to extend over a historic 44 day period, aiming to elect 543 members to the 18th Lok Sabha.

- Rajiv Kumar, the Chief Election Commissioner, announced Lok Sabha elections spanning 7 phases from April 19 to June 1, with results on June 4.

Brief Overview of Project

Purpose:

To analyze comprehensive data from the Lok Sabha elections held in 2014 and 2019 to uncover insightful patterns and trends. Our focus is on presenting unbiased insights and exploring less commonly discussed themes, such as voter turnout dynamics across different constituencies and states.

Objectives:

- Examine voter turnout ratios, party consistency in winning constituencies, and shifts in voter preferences between the two elections.
- AtliQ Media is committed to presenting factual data without bias. This approach aims to provide viewers with informative content that goes beyond traditional election coverage, fostering a deeper understanding of electoral dynamics.

Methodology and Tools

Data Sources: Election Commission data, codebasics.

Tools Used: MySQL for data extraction and analysis, Excel for data manipulation, and Google Slides for Presentation.

Implementing data Cleaning using MySQL:

```
SET SQL_SAFE_UPDATES = 0;

UPDATE 2014_result

SET state = "Telangana"  where state="Andhra Pradesh";

UPDATE 2014_result

SET pc_name = "Guwahati"  where pc_name="Gauhati";

UPDATE 2019_result

SET pc_name = "Guwahati"  where pc_name="Gauhati";
```

The President

Voter Turnout Insight

"2014 & 2019 Top/Bottom 5 Voter Turnout Constituencies"

Top 5 Constituencies by Voter Turnout 2014

pc_name	state	voter_turnout_ratio
Dhubri	Assam	88.35
Nagaland	Nagaland	87.82
Tamluk	West Bengal	87.59
Bishnupur	West Bengal	86.72
Kanthi	West Bengal	86.61
Kanthi	West Bengal	86.61

Top 5 Constituencies by Voter Turnout 2019

pc_name	state	voter_turnout_ratio
Dhubri	Assam	90.66
Bishnupur	West Bengal	87.31
Barpeta	Assam	86.55
Jalpaiguri	West Bengal	86.49
ARUNACHAL EAST	Arunachal Pradesh	86.46
ARUNACHAL EAST	Arunachal Pradesh	86.46

Bottom 5 Constituencies by Voter Turnout 2014

pc_name	state	voter_turnout_ratio
Garhwal	Uttarakhand	21.12
Kheda	Gujarat	22.97
Srinagar	Jammu & Kashmir	25.45
Satara	Maharashtra	25.79
Anantnag	Jammu & Kashmir	28.39

Bottom 5 Constituencies by Voter Turnout 2019

pc_name	state	voter_turnout_ratio
Anantnag	Jammu & Kashmir	8.94
Srinagar	Jammu & Kashmir	14.43
Baramulla	Jammu & Kashmir	34.57
Hyderabad	Telangana	44.84
Kalyan	Maharashtra	45.29

Voter Turnout Insight

"2014 & 2019 Top/Bottom 5 States Voter Turnout"

Top 5 states by Voter Turnout 2014

state	voter_turnout_ratio
Nagaland	87.82
Lakshadweep	86.61
Tripura	84.72
Dadra & Nagar Haveli	84.07
Sikkim	83.33

Top 5 states by Voter Turnout 2019

state	voter_turnout_ratio
Lakshadweep	85.18
Nagaland	82.91
Manipur	82.54
Tripura	82.35
West Bengal	81.72

Bottom 5 states by Voter Turnout 2014

state	voter_turnout_ratio
Jammu & Kashmir	49.66
Bihar	56.25
Uttar Pradesh	58.42
Maharashtra	60.29
Madhya Pradesh	61.59

Bottom 5 states by Voter Turnout 2019

state	voter_turnout_ratio
Jammu & Kashmir	44.84
Bihar	57.30
Uttar Pradesh	59.18
NCT OF Delhi	60.58
Maharashtra	60.96

"Consecutive Party Wins: 2019 Vote % Rankings"

Constituencies have elected the same party for two consecutive elections, ranked by % of votes to that winning party in 2019.

state	pc_name	2014_winner	2019_winner	votes_2019_winner_ratio
Kerala	Wayanad	INC	INC	51.95
Madhya Pradesh	HOSHANGABAD	BJP	BJP	51.46
Himachal Pradesh	Kangra	BJP	BJP	50.81
Himachal Pradesh	Mandi	BJP	BJP	50.50
Karnataka	Uttara Kannada	BJP	BJP	50.50
Assam	Dibrugarh	BJP	BJP	50.18

```
with cte1 as (
(   SELECT *
  FROM 2014_result AS ind
  WHERE party = 'IND'
  AND (state, pc_name, total_votes) IN (
    SELECT state, pc_name, MAX(total_votes)
    FROM 2014_result
    WHERE party = 'IND'
    GROUP BY state, pc_name  ))
UNION AL L (  SELECT *
  FROM 2014_result AS others
  WHERE party != 'IND')),

cte2 as
((   SELECT *
    FROM 2019_result AS ind
    WHERE party = 'IND'
  AND (state, pc_name, total_votes) IN (
        SELECT  state,  pc_name,
MAX(total_votes)
    FROM 2019_result
    WHERE party = 'IND'
    GROUP BY state, pc_name))
UNION   ALL  (SELECT  *   FROM
2019_result AS others

      WHERE party != 'IND'))
AND (state, pc_name, total_votes) IN (
      SELECT state, pc_name, MAX(total_votes)
      FROM 2019_result
      WHERE party = 'IND'
      GROUP BY state, pc_name))
UNION ALL
(  SELECT *  FROM 2019_result AS others
    WHERE party != 'IND'))
select  b.state,c.pc_name,b.party as  2014_winner,c.party  as
2019_winner,
round((c.total_votes/c.total_electors)*100,2)

as votes_2019_winner_ratio
from cte1 b
join cte2 c
on c.pc_name=b.pc_name and c.state=b.state
where
b.party = (
       SELECT party
       FROM cte1
       WHERE state = b.state AND pc_name = b.pc_name
       ORDER BY total_votes DESC
       LIMIT 1) and
b.party=c.party
 AND c.party = (
       SELECT party
       FROM cte2
       WHERE state = c.state AND pc_name = c.pc_name
       ORDER BY total_votes DESC
       LIMIT 1)
order by votes_2019_winner_ratio desc;
```

Changing Party Preferences

Constituencies voted for different parties in two elections (list top 10 based on difference (201 9–2014) in winner vote percentage in two elections)

state	pc_name	2014_winner	2019_winner	2014_ratio	2019_ratio	diff
West Bengal	Alipurduars	AITC	BJP	24.64	45.55	20.91
Nagaland	Nagaland	NPF	NDPP	60.30	41.24	19.06
Assam	Autonomous District	INC	BJP	30.35	47.91	17.56
Puducherry	Puducherry	AINRC	INC	28.38	45.71	17.33
Tripura	Tripura East	CPM	BJP	54.70	38.21	16.49
Tamil Nadu	Kanniyakumari	BJP	INC	25.41	41.78	16.37
Karnataka	Chikkballapur	INC	BJP	25.61	41.24	15.63
Karnataka	Kolar	INC	BJP	28.06	43.51	15.45
Uttar Pradesh	Sambhal	BJP	SP	21.28	35.98	14.70
Bihar	Supaul	INC	JD(U)	21.82	35.33	13.51

Top 5 Candidates: Margin Difference 2014 vs 2019

Top 5 candidates based on margin difference with runners in 2014.

	state	pc_name	winner	winning_party	runner_up	runner_up_party	diff
▶	Gujarat	Vadodara	NARENDRA MODI	BJP	MISTRI MADHUSUDAN DEVRAM	INC	570128
	Uttar Pradesh	Ghaziabad	VIJAY KUMAR SINGH	BJP	RAJ BABBAR	INC	567260
	Gujarat	Navsari	C. R. PATIL	BJP	MAKSUD MIRZA	INC	558116
	Rajasthan	Jaipur	RAMCHARAN BOHARA	BJP	DR. MAHESH JOSHI	INC	539345
	Gujarat	Surat	DARSHANA VIKRAM JARDOSH	BJP	DESAI NAISHADHBHAI BHUPATBHAI	INC	533190

Top 5 candidates based on margin difference with runners in 2019.

	state	pc_name	winner	winning_party	runner_up	runner_up_party	diff
▶	Gujarat	Navsari	C. R. Patil	BJP	PATEL DHARMESHBHAI BHIMBHAI	INC	689668
	Haryana	Karnal	Sanjay Bhatia	BJP	Kuldip Sharma	INC	656142
	Haryana	Faridabad	KRISHAN PAL	BJP	AVTAR SINGH BHADANA	INC	638239
	Rajasthan	Bhilwara	SUBHASH CHANDRA BAHERIA	BJP	RAM PAL SHARMA	INC	612000
	Gujarat	Vadodara	RANJANBEN BHATT	BJP	PRASHANT PATEL (TIKO)	INC	589177

Party Vote Share: National and State Level

2014:National

party	voting_share
BJP	30.97
INC	18.58
BSP	4.31
AITC	4.08
SP	3.58
ADMK	3.48
CPM	3.45

2019:National

party	voting_share
BJP	37.30
INC	19.46
AITC	4.06
BSP	3.62
IND	2.70
SP	2.55
YSRCP	2.53

2014: State

```
271  ●   SELECT
272          2014_result.state,
273          2014_result.party,
274          ROUND(SUM(total_votes) / state_total_votes * 100, 2) AS voting_share_percentage
275      FROM
276          2014_result
277      JOIN (
278          SELECT
279              state,
280              SUM(total_votes) AS state_total_votes
281          FROM
282              2014_result
283          GROUP BY
284              state
285      ) AS state_votes ON 2014_result.state = state_votes.state
286      GROUP BY
287          state, party;
```

state	party	voting_share_percentage
Telangana	TRS	13.93
Telangana	INC	11.53
Telangana	TDP	29.15
Telangana	BSP	0.82
Telangana	IND	1.96

2019: State

state	party	voting_share_percentage
Andhra Pradesh	TDP	39.59
Andhra Pradesh	BJP	0.96
Andhra Pradesh	YSRCP	49.15
Andhra Pradesh	INC	1.29
Andhra Pradesh	JnP	5.79

Top 5 Constituencies: Major Party Vote Gains and lost 2019 vs 2014"

BJP

pc_name	BJP_2014	BJP_2019	votes_gain
Tripura West	54706	573532	948.39
Tripura East	60613	482126	695.42
Mathurapur	66538	522854	685.80
Purulia	86236	668107	674.74
Ghatal	94842	609986	543.16

INC

pc_name	INC_2014	INC_2019	votes_gain
Karur	30459	695697	2184.04
Arani	27717	617760	2128.81
Thiruvallur	43960	767292	1645.43
Krishnagiri	38885	611298	1472.07
Virudhunagar	38482	470883	1123.64

BJP

pc_name	BJP_2014	BJP_2019	votes_loss
Narsapuram	540306	12414	97.70
Tirupati	542951	16125	97.03
Visakhapatnam	566832	33892	94.02
Bhongir	183249	65457	64.28
Warangal	187139	83777	55.23

INC

pc_name	INC_2014	INC_2019	votes_loss
Vizianagaram	122487	15725	87.16
Ratnagiri - sindhudurg	343037	63299	81.55
Kolkata Uttar	130783	26093	80.05
Rampur	156466	35009	77.63
Alipurduars	116718	27427	76.50

NOTA

2014

	pc_name	total_votes
▶	Nilgiris	46559

2019

	pc_name	total_votes
▶	Gopalganj (SC)	51660

"Constituencies Electing Candidates with <10% State Vote Share (2019)"

	pc_name
▶	Amravati
	Anantnag
	Baharampur
	Baramulla
	Chidambaram

Conclusion

1. Significant Voter Turnout Variations:
- Voter turnout varied notably between 2014 and 2019 across constituencies and states, indicating dynamic voter engagement influenced by local and national factors.

2. Party Performance and Voter Preferences:
- Parties such as BJP and INC saw shifts in voter support, with some constituencies showing significant gains or losses in vote share between the two elections, reflecting evolving voter preferences.

3. Consistency in Party Representation:
- Certain constituencies demonstrated consistent voting patterns, consistently electing the same party across both 2014 and 2019 elections, suggesting entrenched political affiliations.

4. Emergence of NOTA as a Significant Factor:
- The rise of NOTA (None of the Above) votes in both elections highlights increasing voter dissatisfaction and a desire for alternative political choices.

5. Impact of Postal Votes on Voter Turnout:
- Analysis suggests a potential correlation between postal votes and overall voter turnout, indicating that accessibility and convenience might influence voter participation.

Recommendation

- Develop targeted voter engagement initiatives in constituencies with historically low turnout.
- Expand media coverage to include in-depth voter sentiment analysis across constituencies.
- Initiate public awareness campaigns on the significance of NOTA votes.
- Establish continuous monitoring of electoral data for trends and developments.
- Integrate advanced analytical tools for predictive and sentiment analysis.

Thank You

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Attribute for Template

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