

## Data Description

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- Refer 2 files : All\_States\_2004.csv & All\_States\_2009.csv

these two data sets relate to 2004 and 2009 parliamentary elections

- "PC Name": Name of the constituency
- "No": Id
- "Type" : GEN ,SC etc
- "State": Name of State
- "Winning Candidate": Name of winning candidate
- "Party": Name of party to which winning candidate belonged
- "Electors": Number of votes in the constituency
- "Votes": Number of votes in the election
- "Turnout": Percentage of Turnout
- "Margin": Margin of win for the winning candidate
- "Margin %": Margin as percentage of votes

## Data Summary and Exploration

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- Find out which candidate had highest margin % in each state in both the election.
- Find out the over all loss/gain of seats for each party in election from 2004 to 2009.
- Find out average vote share percentage [of the turnout] of winning candidates across states for each party.
- Find out if any winning candidates in 2004 changed their party and still won in 2009, was it from the same constituency [if you found any such candidate]?

## Data Vizualisation

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- Visualize the change in number of seats for each party in election from 2004 to 2009 in a single chart of your choice.
- Visualise density curve for margin percentages for BJP and INC for the election in 2009 in a single chart of your choice.
- Visualise how turnout changed from 2004 to 2009, pick any one state of your choice [it should have atleast 10 constituencies].

## Hypothesis Testing

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- Test if BJP and INC have significantly different performance when it comes to proportion between winning candidates in categories GEN/SC seats.
- Test if turnout significantly changed across constituencies in the state of Karnataka from 2004 to 2009. [Ignore the constituencies which are not present in both the elections, if any]
- Find the mean margin percent for INC for year 2004 . Test if mean margin percent for BJP is significantly different from the same for year 2009.