## Twitter Sentiment Analysis

FIT5147 - Data Exploration and Visualisation

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- \* Online application for social networking and micro blogging
- \* Platform for different kind of Analytics
- \* Sentiment Analysis?

### Lokh Sabha Elections 2019

Indian General Body Elections



Why this topic?

- \* Polar opinion
- \* Trending Topic

# Technologies Used

Data Extraction: Tweepy package python

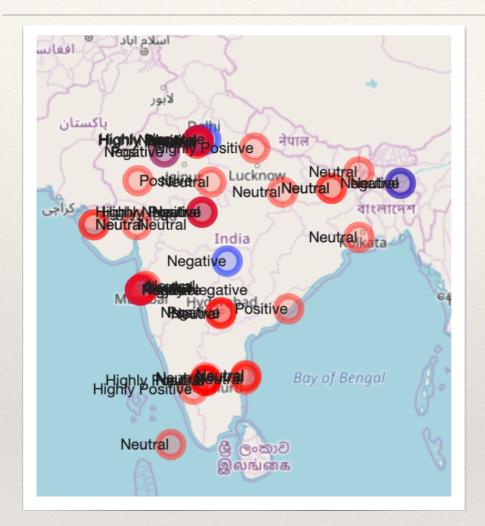
Data Format: JSON format

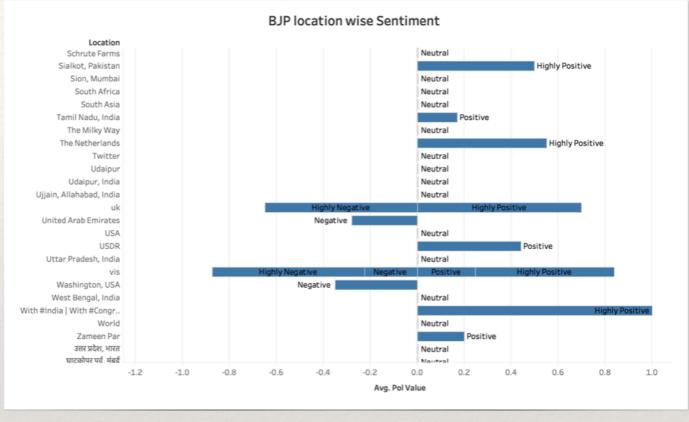
Data Storage and Manipulation: R and Python Pandas

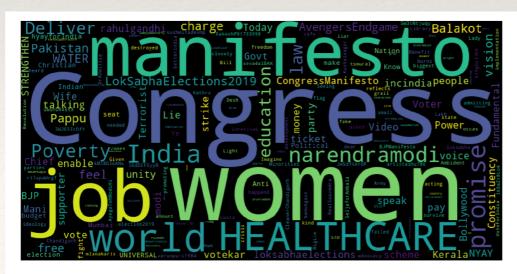
Sentiment Analysis: TextBlob python package and NLP

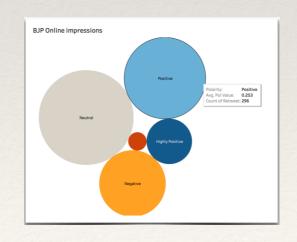
Visualisation: R, Python and D3

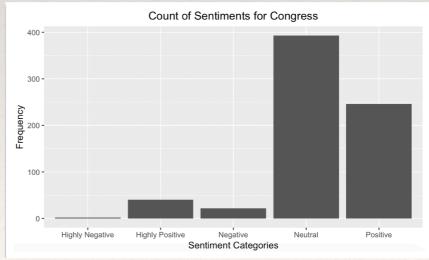
## Some Visualisation Samples



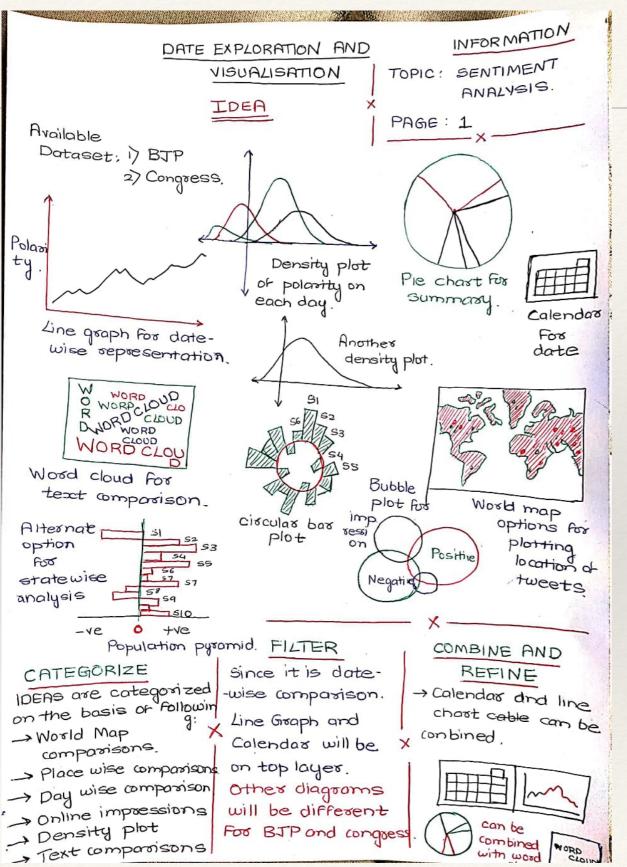


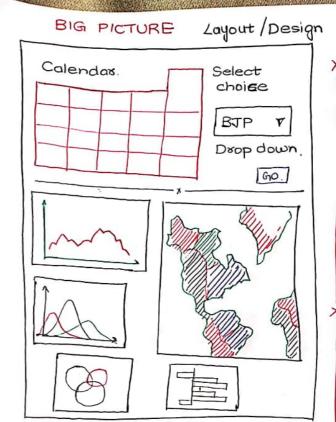






### 5 Design Sheets





DATE: 29th MAY, 2019

SHEET: 2

TOPIC: SENTIMENT ANALYSIS.

#### COMPONENTS

- → A calendar to select the date.
- → Drop down to choose between BTP and Congress
- -) A Button to display the visuolization.
- x Line graph to show day wise trend.
- ->. Chloropleth map to show location wise analysis
- -> Density plot for each emotion
- Bubble chart for impression

Density ... Plot showing density of each emotion/ sentiment

COMPO--NENTS 155 state wise average 1513 sentiment

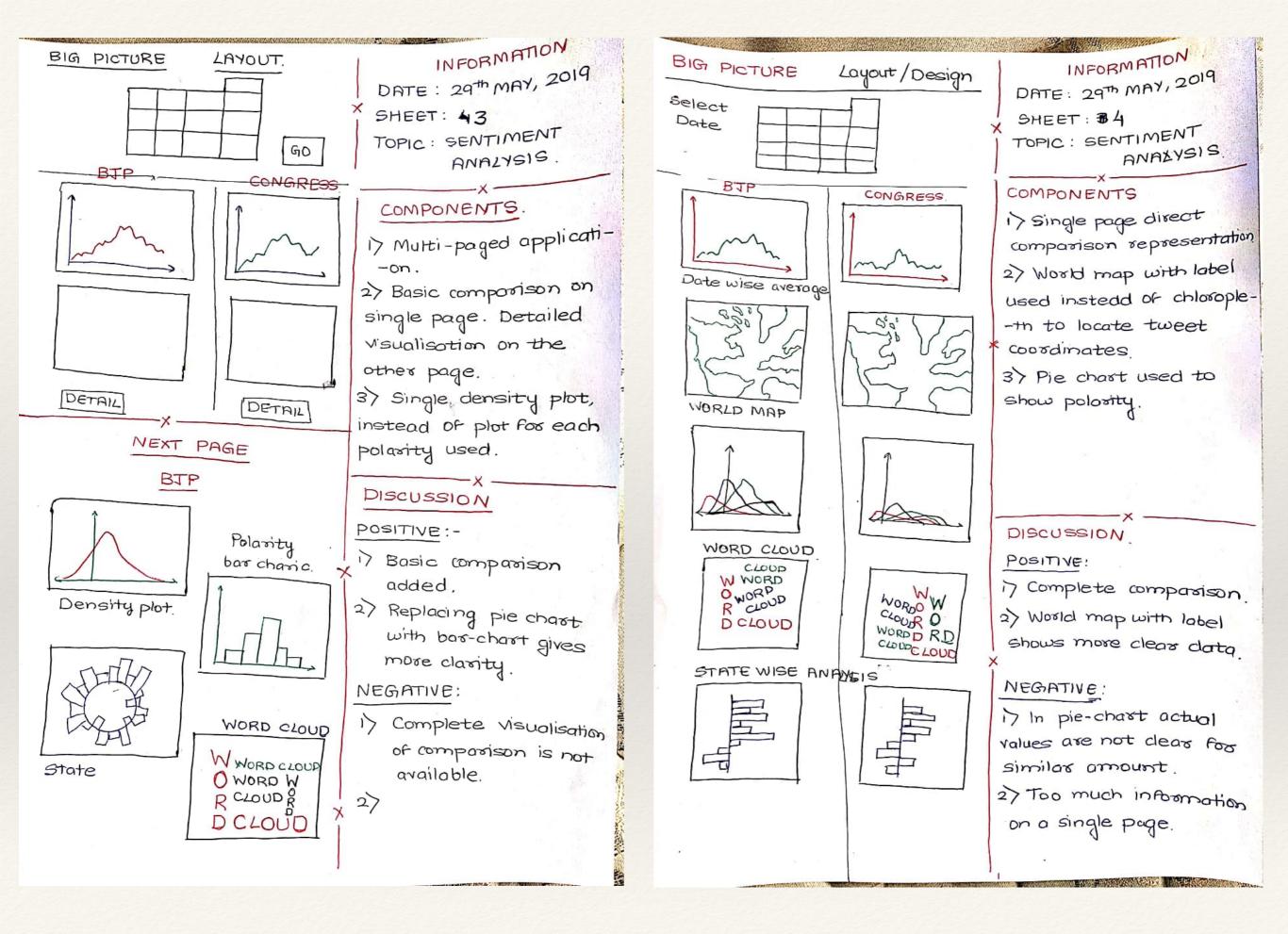
#### DISCUSSION

#### POSITIVES:~

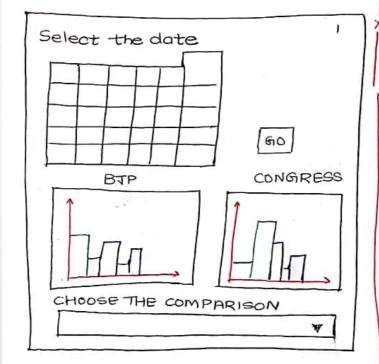
-> For each party, complete data wisepresentation will be shown.

#### NEGATIVES: -

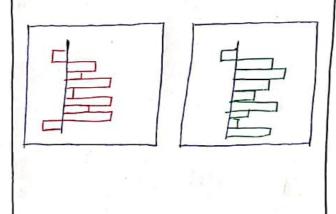
- -> Difficult for comparison
- X- Density plot for each sentiment has too much dota.
- -> Chloropeth map shows no data on coordinates



#### FINAL DESIGN



COM STATEWISE COMPARISON



### INFORMATION

TOPIC: SENTIMENT ANALYSIS

PAGE:5

REALIZATION

#### COMPONENT

- → Multipage interPace

  → First page having a calendar and basic comparison.
- -> Other companison included in drop down menu for users to select.

#### DETAIL

Following chart will be used for each comparison:

- i) Text compasison WORD CLOUD.
- 2) Location companison

WORLD MAP WITH LABEL

3) PLACE-WISE COMPAR--ISON.

POPULATION PYRAMID

- 4) DISTRIBUTION
- DENSITY PLOT.
- 5) ONLINE IMPRESSION BUBBLE CHART