

CSE 564 – VISUALIZATION

FINAL PROJECT – PRELIM REPORT AND SCREENSHOTS

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Project Topic:

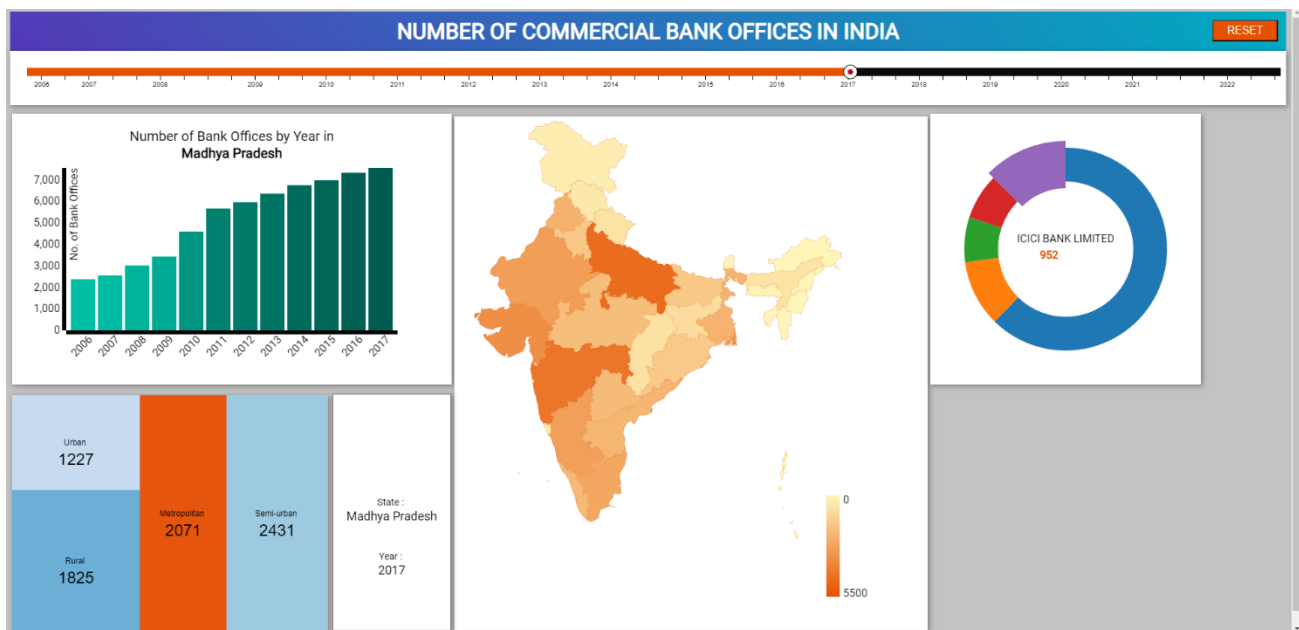
Visually charting and analysing State-wise, Bank Group-wise, Bank-wise, and Population Group-wise Number of Functioning Offices of Commercial Banks in India recorded at the end of each quarter for the last 15 years by creating a visual dashboard using D3.js and Flask.

Project Implementation First Draft Screenshots:

Visual Dashboard:

The dashboard analyses State-wise, Bank Group-wise, Bank-wise, and Population Group-wise Number of Functioning Offices of Commercial Banks in India as follows:

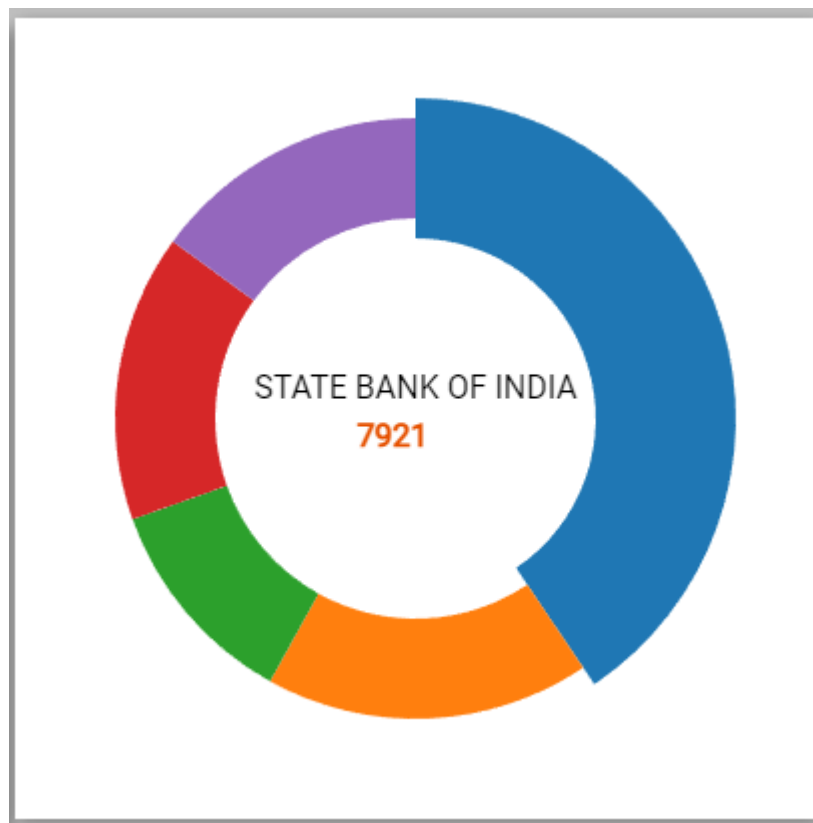
The dashboard till now contains 5 charts indicating various aspects of the data and a few more are yet to be generated to augment the analysis.



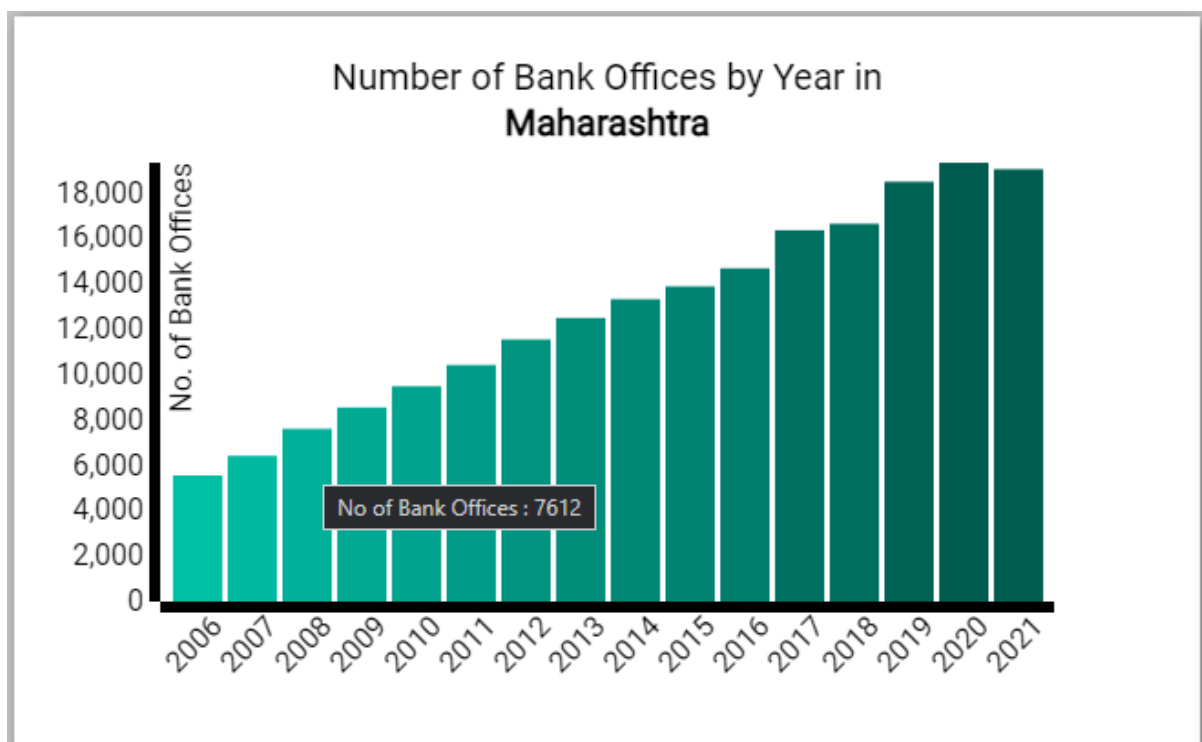
Time series analysis using **bar chart** (turquoise) for country and states, and the **slider on top** indicating Years and Quarter which can be dragged to update the dashboard accordingly.

Reset Button on Top Right to reset the dashboard brushing and data.

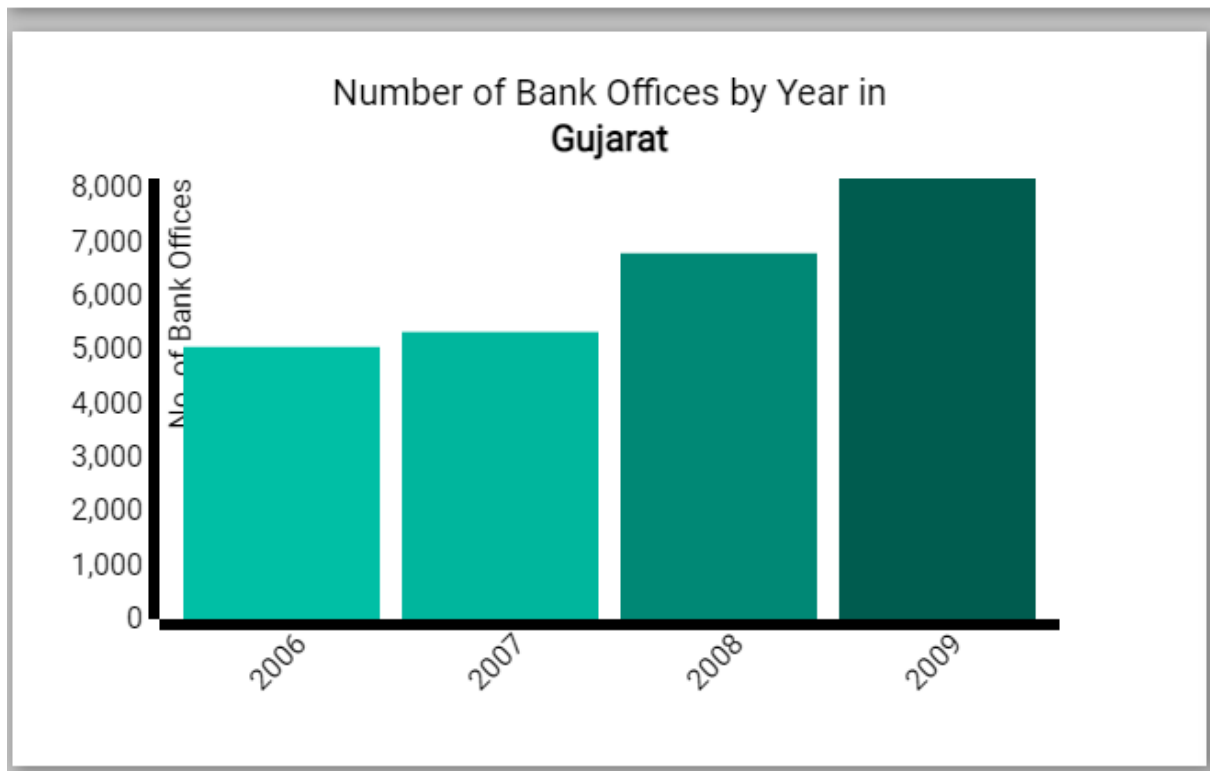
Bank Wise analysis for the country and each state using **donut chart** to show Number of Banks with Bank Name.



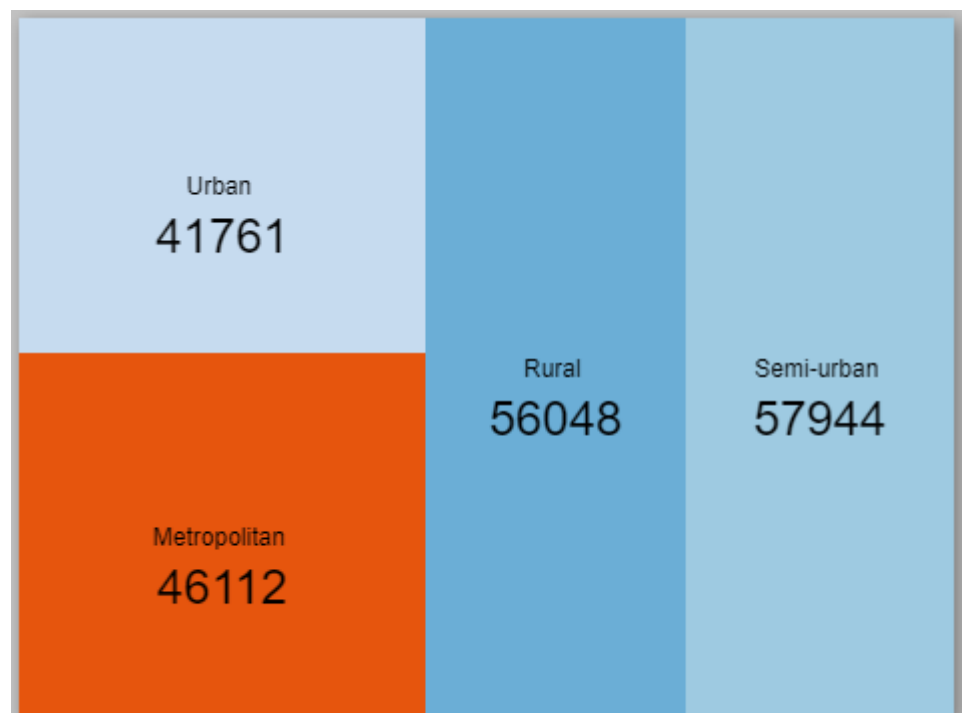
Bar Chart for visualizing change in number of functioning offices in states and the country over the past 15 years.



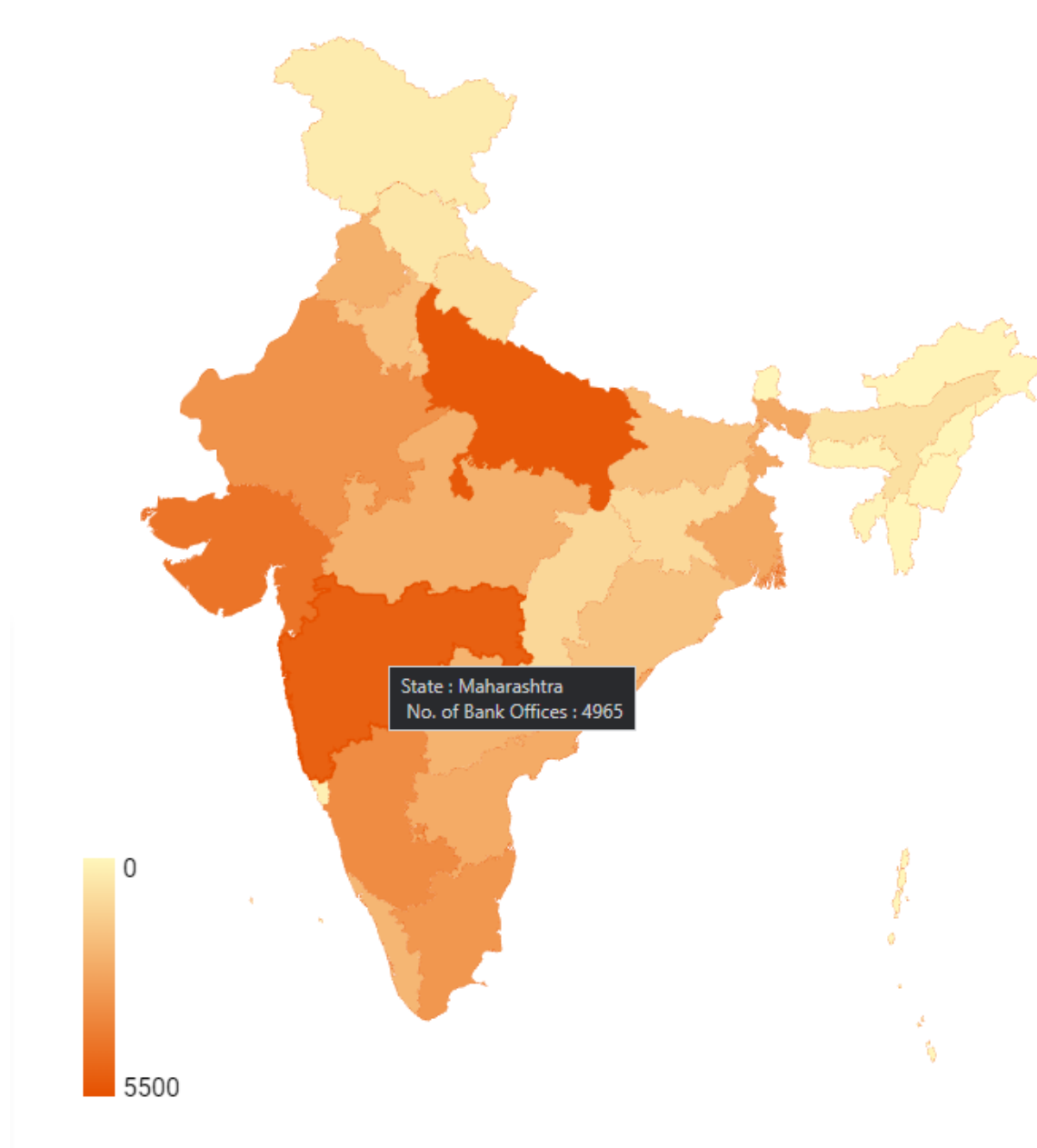
Slider to update all charts including the bar chart and choropleth map.



Treemap to show the data according to population groups "Urban" "Rural" "Semi-urban" and "Metropolitan"



Choropleth map to indicate number of functioning offices in each state. On hovering over the state, you can see name of state and number of offices. On clicking a state, all other charts are updated to show that state's data.



Dragging the **slider** shows change in color gradient indicating the change over the past 15 years.

Some updates to the CSS design are yet to be made to make the dashboard more appealing and fine touches will be done before submitting the final project. Hence, the project is on track and the prelim report is complete.