Sardar Patel Institute of Technology SEM VII:ADVANCE DATA VISUALIZATION.

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Branch	BE CSE DS (BATCH B)
Experiment no.	10

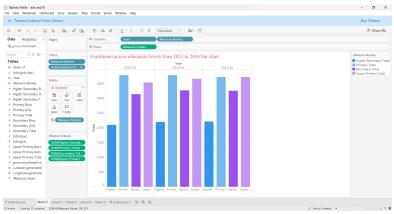
pleau on the datasets - Education sector
Histogram, Time line chart, Scatter plot, a and whisker plot, Violin plot, Regression D chart, Jitter th chart
upb/indian-school-education-statistics
gender-wise enrollment patterns across mary, Upper Primary, Secondary, and states and union territories of India. parity in education, the total enrollment is into regional disparities in the education
erate visualizations, such as comparative eographical maps to understand enrollment different years.
erritory in India where the enrollment data nich the data was collected. f boys enrolled in primary education
of girls enrolled in primary education
aber of students enrolled in primary and girls. umber of boys enrolled in upper primary

- education (grades 6 to 8).
- **Upper_Primary_Girls**: The number of girls enrolled in upper primary education (grades 6 to 8).
- **Upper_Primary_Total**: The total number of students enrolled in upper primary education, including both boys and girls.
- **Secondary_Boys**: The number of boys enrolled in secondary education (grades 9 and 10).
- **Secondary_Girls**: The number of girls enrolled in secondary education (grades 9 and 10).
- **Secondary_Total**: The total number of students enrolled in secondary education, including both boys and girls.
- **Higher_Secondary_Boys**: The number of boys enrolled in higher secondary education (grades 11 and 12).
- **Higher_Secondary_Girls**: The number of girls enrolled in higher secondary education (grades 11 and 12).
- **Higher_Secondary_Total**: The total number of students enrolled in higher secondary education, including both boys and girls.

Program:

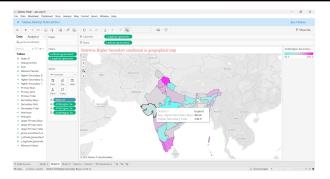
Enrollment Across Education Levels (2013-2016) - Bar Chart:

• This bar chart visualizes the enrollment data for different education levels (Primary, Upper Primary, Secondary, and Higher Secondary) for the years 2013 to 2016. It compares the **total enrollment** at each education level over these years, highlighting trends and changes in the enrollment rates across different levels of education.



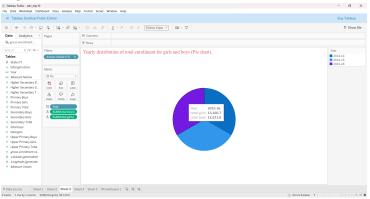
Statewise Higher Secondary Enrollment in Geographical Map:

• This map visualizes the **Higher Secondary enrollment data** across Indian states and union territories. The color intensity or size of the markers represents the enrollment numbers, allowing for a geographical comparison of **higher secondary enrollment** across different regions of India. It helps identify areas with high or low enrollment.



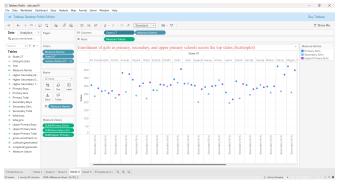
Yearly Distribution of Total Enrollment for Girls and Boys (Pie Chart):

• This pie chart shows the **gender-wise total enrollment** (boys vs. girls) across different education levels for a specific year. It highlights the proportion of boys and girls in the education system, giving a clear picture of **gender distribution** within the overall enrollment.



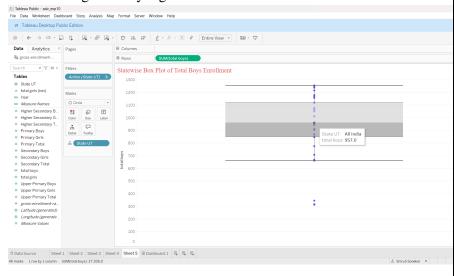
Enrollment of Girls in Primary, Secondary, and Upper Primary Schools Across the Top 30 States (Scatterplot):

• This scatter plot visualizes the **enrollment of girls** in Primary, Secondary, and Upper Primary education across the **top 30 states**. Each data point represents a state, with the x-axis denoting the educational level and the y-axis representing the enrollment numbers. The scatter plot helps identify patterns and outliers in girls' enrollment across various educational stages.

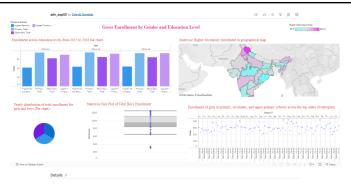


Statewise Box Plot of Total Boys Enrollment:

• The box plot visualizes the **distribution of total boys' enrollment** across different states and union territories. It shows the **median**, **quartiles**, and any potential **outliers** in the enrollment numbers. This helps understand the variation in boys' enrollment across states and provides insights into states with significantly high or low enrollment.



Result:



Link:

https://public.tableau.com/views/adv_exp10_17313229384930/Dashboard1?:language=en-US&publish=yes&:sid=&:redirect=auth&:display_count=n&:origin=viz_s hare_link

Conclusion:

These charts collectively offer a detailed analysis of enrollment trends, gender distribution, and regional disparities in India's education system, which can be effectively communicated using Tableau.