



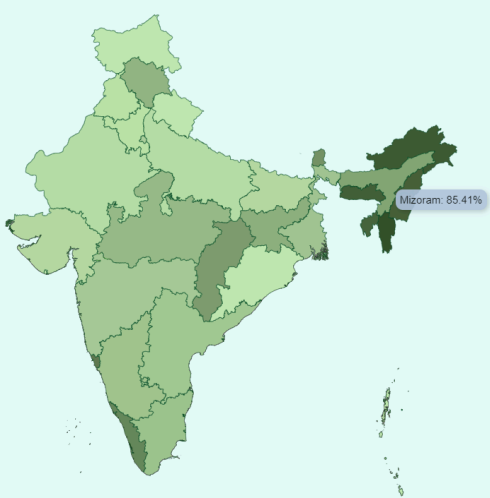
**BHARATIYA VIDYA BHAVAN'S
SARDAR PATEL INSTITUTE OF TECHNOLOGY**
(Empowered Autonomous Institute Affiliated to University of Mumbai)
[Knowledge is Nectar]

Department of Computer Engineering

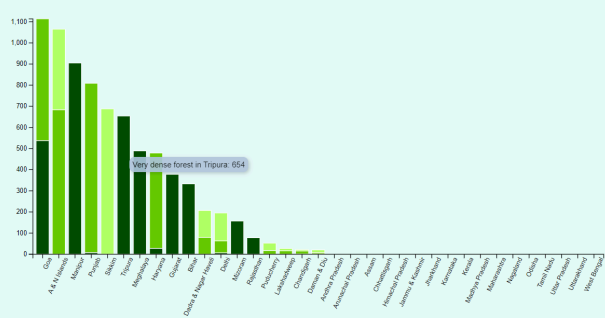
Name	Ms Neerja Doshi
UID	2021300029
DIV	BE COMPS [ADV -> BATCH F]
ADV EXP 8	

AIM	Designing Interactive Dashboards and Storytelling using D3.js on Environment/Forest Cover Dataset
Dataset Particulars	<p>Name: Forest Cover in India</p> <p>Link: https://www.kaggle.com/datasets/arjunprasadsarkhel/forest-cover-in-india/data</p> <p>Column Details :</p> <p>The dataset contains information about forest areas across different states or union territories (State/UTs) of India. It includes columns for:</p> <ol style="list-style-type: none">1) Geographical Area2) Forest Categories: Very dense forest, Moderately dense forest, Open forest, Total forest3) Percentage of geographical area covered by forest4) Scrub area5) Historical forest coverage data (from 1987 to 2013)<ol style="list-style-type: none">a) [Forest_Coverage_1987 , Forest_Coverage_1999 .. and so on]

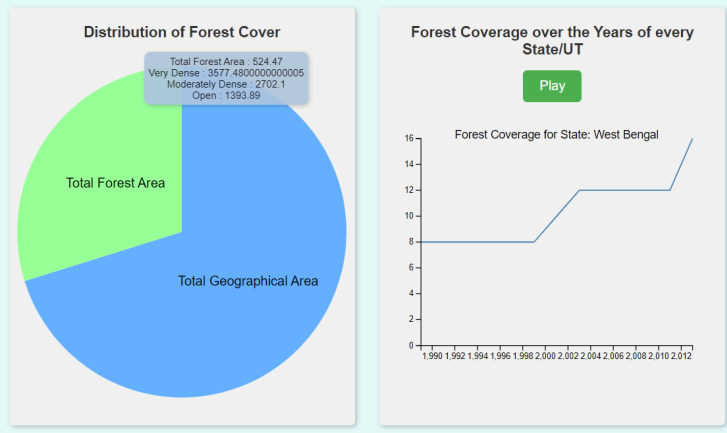
Forest Coverage Percentage of Geographical Area



Density of Forest Coverage Across All States in India



Forest Coverage Over Time



Analysis	<p><u>Stacked Bar Graph :</u></p> <ol style="list-style-type: none"> 1) Goa , A & N Islands , Manipur , Punjab , Sikkim , Tripura , Meghalay are among the top 6 states with Higher Forest Coverage in India . 2) Amongst these Manipur , Sikkim , Tripura are the States with higher percentage if Dense Forests 3) As seen in the India Map of Forest Coverage , The seven sisters ; Eastern Part of india has higher density coverage than many other parts of India . 4) Nagaland , Odisha , Tamil Nadu , Uttar Pradesh , Uttarakhand , West Bengal are the states with lowest Forest Coverage 5) The reason can be rapid industrialization, faster urbanization , rapid civilization <p><u>Pie Chart :</u></p> <ol style="list-style-type: none"> 1) A cleare view of the pie chart shows that about 1/3rd of the total Indian subcontinent [as of 2013] has Fovrest Coverage.
Conclusion	By performing this experiment I became familiar with making interactive visuals using D3.js and use GeoJson Data for map generation