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BDT Assignment 9

Problem statement: For suitable datasets of any application domain demonstrate big data analytics using DB.js.

Objectives: To learn D3. js concepts
To perform data visualization on
given dataset.

Theory: D3. js or Data-Driven Documents, it is a potent Javascript library tailored for crafting interactive data visualizations on web browsers. With its distinctive feature of binding data to the Document Object Model (DOM) elements and employing a declarative approach to transformation, & D3. js excels in creating dynamic and engaging visualizations for the web.

Types of Charts!

- 1. line short Shows trends over continous interval.
- 2. Bar/chart Uses bars to represent proportional values.
- 3. Pre Chart Displays data proportions in a circular format.
- 4. Scatter Plot Plots individual data points for correlation analysis.
- 5. Area Chart Emphasizes changes over time with filled areas.

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Importance of Visualization: -

- 1. Data Understanding
- 2. Decision Making
- 3. Pattern Recognition ?
- 4. Communication of Data Insights
 5. Exploration of Data.

Conclusion: Hence, I learned to perform Data Visuali-- zation using D3. js.

FAQ'S Moundy whole were

1) Explain Data Visualization Factors:

- 1) Clarity: ensure visual representation is clear and easily understandable.
 - 2) Accuracy: Maintain accuracy in conveying intended information.
 - 3) Simplicity: Keeps Visualization simple.
 - 4) Relevance: Include only relevant data for effective ammunication.
- 2) Explain any 3 types of charts with example:

 -) i) line chart: Shows trends over time ex: Stock prices
 - 2) Bar chart: Represents categorical data with bors ex: sales by category
 - 3) Pie Chart: Displays parts of a whole as sectors ex: Market Share

