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SUBJECT: Data Science and Big Data Analytics

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TOPIC: Data Visualization

Reference Link: <https://www.simplilearn.com/data-visualization-tools-article?tag=data%20visulisation%20tools>

Data visualization is the process of graphical representation of data in the form of geographic maps, charts, sparklines, infographics, heat maps, or statistical graphs. Data presented through visual elements are easy to understand and analyze, enabling the effective extraction of actionable insights from the data. Relevant stakeholders can then use the findings to make more efficient real-time decisions. Data visualization tools, incorporating support for streaming data, AI integration, embeddability, collaboration, interactive exploration, and self-service capabilities, facilitate the visual representation of data.

Some of the best data visualization tools include Google Charts, Tableau, Grafana, Chartist, FusionCharts, Datawrapper, Infogram, ChartBlocks, etc. These tools support a variety of visual styles, be simple and easy to use, and be capable of handling a large volume of data. Data is becoming increasingly important every day. For any organization, you can understand how important data is while making crucial decisions. For the same reason, data visualization is grabbing people's attention. Modern data visualization tools and advanced software are on the market. A data visualization tool is software that is used to visualize data. The features of each tool vary, but at their most basic, they allow you to input a dataset and graphically alter it. Most, but not all, come with pre-built templates for creating simple visualizations.

The Best Data Visualization Tools:

- Tableau
- Dundas BI
- JupyterR
- Google Charts

Conclusion:

In conclusion, Data visualization uses the graphical representation to extract actionable insights from data. Various tools, like Tableau and Google Charts, aid in simplifying the process.

Name & Sign of Subject In-charge:

Marks: