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MA ELECTIVE 1 (551)

1. Within the discipline of data science, data analytics and data visualization are separate but closely connected topics. Data analytics is the process of analyzing and interpreting data to find insightful patterns, trends, and relationships. To extract useful information from data, statistical and mathematical techniques are frequently used. The practice of graphically expressing data, utilizing graphs, charts, and other visual components to make complex data more comprehensible and accessible, is known as data visualization. Data visualization helps decision-makers understand the insights gained through analytics by presenting the analyzed data in a clear and visual manner. Data analytics focuses on the processing and interpretation of data. Both are crucial for obtaining actionable knowledge from data, as analytics inform visualizations' content and helps make data more understandable and useful.
2. Based on my own experience, data visualization is a potent tool that I usually use when researching and studying for examinations. To simplify difficult information and make it simpler to understand and retain, it involves the construction of graphical representations such charts, graphs, diagrams, and infographics. I frequently convert dense lecture or textbook notes into visual aids like mind maps, flowcharts, or timelines when studying for examinations. I can better understand connections between ideas, pick out important concepts, and recall information throughout tests because to these illustrations. When presenting survey results in study, data visualization is essential. Making simple, visually appealing charts and graphs increases the impact and clarity of the data by making it easier for me and others to rapidly recognize trends, patterns, and insights within it.
3. In the area of data analysis and communication, data visualization serves an array of crucial functions. It improves comprehension by transforming complex data into understandable and visually appealing forms, enabling people to swiftly and intuitively grasp patterns, trends, and relationships. Furthermore, it facilitates decision-making by giving individuals a clear and thorough picture of the data, allowing them to make decisions based on facts. Data visualization can also reveal insights and irregularities that may be concealed in raw data, enabling more thorough investigation. It also improves communication by enabling the clear and convincing sharing of findings, making it a crucial tool for reporting and presenting outcomes in a variety of fields, from business and science to education and public policy.