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| Semester | T.E. Semester VI – Computer Engineering |
| Subject | Data Warehousing and Mining |
| Subject Professor In-charge | Prof. Kavita Shirsat |
| Assisting Teachers | Prof. Kavita Shirsat |
| Laboratory | Lab 312 A |

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| Student Name | Deep Salunkhe | |
| Roll Number | 21102A0014 | |
| Grade and Subject  Teacher’s Signature |  |  |

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| Experiment Number | 02 | |
| Experiment Title | To Visualize and interpret the Data | |
| Resources / Apparatus Required | Hardware:  Computer system | Software:  Python, Jupyter noteBook |
| Description | 1. Data visualization is the graphical representation of data and information using visual elements such as charts, graphs, and maps.  2. It is a powerful tool for gaining insights, identifying patterns, and understanding complex relationships in data, making it easier to interpret and communicate information.  3. Data visualization enables the presentation of large datasets in a concise and intuitive manner, allowing users to quickly grasp key trends and outliers.  4. It is widely used across various domains, including business, science, finance, and academia, to make data-driven decisions and communicate findings effectively.  5. Effective data visualization requires thoughtful selection of visual elements, color schemes, and design principles to ensure clarity, accuracy, and meaningful representation of the underlying data. | |
| Implementation |  | |
| Conclusion: | In conclusion, data visualization plays a vital role in the data domain as it enhances understanding, identifies patterns, supports data exploration, facilitates effective communication, and serves as a powerful decision-making tool. By transforming complex data into visually appealing and intuitive representations, data visualization empowers individuals and organizations to harness the full potential of data, make informed decisions, and drive success in various domains. | |