



SNS COLLEGE OF ENGINEERING

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Accredited by NAAC-UGC with 'A' Grade

Approved by AICTE & Affiliated to Anna University, Chennai

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

19AD504 – DATA VISUALIZATION

UNIT –I

INTRODUCTION TO DATA VISUALIZATION

1.6 CONSULTING FOR CONTEXT

Consulting for context in data visualization involves understanding the specific context, goals, and requirements of the project or analysis.

Here are some key aspects to consider when providing consulting for context in data visualization:

1. Understand the Purpose:

- Begin by understanding the purpose of the data visualization project. What are the goals and objectives? Is it for exploratory analysis, decision-making, reporting, or presentation purposes? Understanding the purpose helps shape the approach and design of the visualization.

2. Identify the Audience:

- Determine who the intended audience is for the visualization. Is it executives, analysts, stakeholders, or the general public? Consider their level of expertise, knowledge, and familiarity with the subject matter.
- This understanding will guide the choice of visualization techniques, complexity, and level of detail.

3. Define Key Questions:

- Collaborate with the stakeholders to define the key questions they seek to answer or the insights they want to gain from the data.
- Clarify the information they are looking for, specific metrics of interest, or hypotheses they want to test.
- This will ensure that the visualization addresses their specific needs.



4. Contextualize the Data:

- Gain a deep understanding of the data itself, including its source, quality, limitations, and any biases or nuances that may affect the analysis.
- Consider the temporal, spatial, or categorical dimensions of the data and how they impact the visualization.
- This understanding will enable you to present the data in a meaningful and accurate way.

5. Incorporate Domain Knowledge:

- Acquire domain knowledge related to the subject matter of the data.
- Consult with experts or stakeholders who have domain expertise to gain insights into the data and to ensure that the visualization accurately represents the underlying concepts or phenomena.

6. Analyze Existing Workflows:

- Consider the existing workflows or processes where the visualization will be integrated or used.
- Understand how the visualization will fit into the larger context, such as reporting systems, decision-making processes, or communication channels.
- This will help ensure that the visualization aligns with existing practices and is actionable.

7. Collaborate and Iterate:

- Work closely with the stakeholders throughout the process to gather feedback, refine the visualization, and validate its effectiveness.
- Collaborative iterations allow for adjustments and improvements based on the stakeholders' insights, ensuring that the final visualization meets their needs and expectations.

8. Ethical and Legal Considerations:

- Consider ethical and legal considerations when working with data.
- Ensure data privacy and confidentiality, adhere to data governance and compliance standards, and be mindful of potential biases or misinterpretations in the visualization.