AICTE EY-GDS Internship December'23

Self-Paced Study Material for Internship:

Topic: Data Visualization

Principles of data visualization:

 Effective data visualizations prioritize clarity, ensuring that the intended message is easily understandable, and accuracy, representing data truthfully and without distortion.

Choosing the right chart:

 Select appropriate chart types, such as bar charts, pie charts, line charts, or maps, based on the nature of your data and the insights you aim to convey.

Matplotlib and Seaborn libraries:

• Matplotlib and Seaborn are powerful Python libraries for creating both simple and advanced visualizations, providing flexibility and customization options.

Customizing visuals:

• Customize visual elements, including colors, labels, axes, and titles, to enhance the overall aesthetics and effectiveness of your data visualizations.

Interactive visualizations:

• Utilize libraries like Plotly and Bokeh to create interactive visualizations, allowing users to engage with and explore data dynamically.

Data storytelling:

• Data storytelling involves using visuals as a narrative tool to communicate insights effectively, making data more accessible and compelling for a broader audience.

Best practices for presenting visualizations:

 When presenting data visualizations, adhere to best practices such as providing context, focusing on key insights, and ensuring clarity to effectively convey the intended message.

Resources:

- 1. Matplotlib Tutorial: https://matplotlib.org/
- 2. Seaborn Tutorial: https://seaborn.pydata.org/tutorial.html
- 3. Plotly Python Tutorial: https://plotly.com/python/
- 4. Bokeh Python Library: https://docs.bokeh.org/en/latest/
- 5. Storytelling with Data: https://www.storytellingwithdata.com/
- 6. Effective Data Visualization with Python: https://www.datacamp.com/tracks/data-visualization-with-python