Session Plan Day 6

Data Visualization with Matplotlib Git, Production Code.

Learning Outcomes

- **Build custom plots with matplotlib and Pandas**
- **Catch trends, anomalies and patterns in data with visualizing data**
- **Know which plot is suitable for different types of data and use accordingly**
- **Learn about version control using Git and get acquainted with the coding standards for writing production-grade code.**

Prerequisites for the Student

- **Data Visualization with Matplotlib - Go through the concept and solve the tasks and assessments.**

Student Activities

- **Discuss with the Mentor what you have learned.**
- **Overview of Data Visualization with Matplotlib**
  - Stacked Bar Chart
  - Histogram
  - Scatter Plot
  - Drawing Multiple Plots
- **Why is visualization important?**
  - **https://www.digitalvidya.com/blog/introduction-data-visualization-in-python/**
  - **https://towardsdatascience.com/data-science-with-python-intro-to-data-visualization-and-matplotlib-5f799b7c6d82**
- **Practice problems on Matplotlib basics, Histograms, Box Plots, Scatter Plots, Plot Customization**
  - Refer the GitHub repo for problems
- **Quiz on Data Visualization with Matplotlib.**
- **Code Along**
- **Learn about version control and get acquainted with using Git for creating and making changes in a repository on GitHub.**
- **Get to learn about the importance of coding standards in Python such as PEP8, PEP257 also learn to implement them.**
- **Questions and Discussion on doubts - AMA**

Next Session

- **Concept - Summarizing data with statistics**
- **Key topics to be highlighted - highlight where they would need to spend more time and importance w.r.t Data Science.**
  - Introduction to types of data
  - Measures of Central Tendency
  - Measures of Dispersion
  - Skewness, Kurtosis and Correlation