Task 7

Machine Learning

Upload .py or Ipynb extension file on GitHub public repo "100DaysofBytewise" and share the link in the submission form by 2 July 2024.

1. **Exercise: Create a simple line plot using Matplotlib to display the trend of a list of values over time.**
2. **Exercise: Plot a bar chart using Matplotlib to show the frequency of different categories in a dataset.**
3. **Exercise: Create a scatter plot using Matplotlib to visualize the relationship between two variables in a dataset.**
4. **Exercise: Load a dataset using Seaborn's built-in dataset functions and create a pairplot to visualize the relationships between all pairs of features.**
5. **Exercise: Create a box plot using Seaborn to show the distribution of values for different categories in a dataset.**
6. **Exercise: Plot a heatmap using Seaborn to visualize the correlation matrix of a dataset.**
7. **Exercise: Use Matplotlib to create a subplot grid that displays multiple charts in a single figure.**
8. **Exercise: Customize the appearance of a Seaborn plot by changing the color palette, adding titles, and modifying axis labels.**
9. **Exercise: Create a violin plot using Seaborn to visualize the distribution of a dataset across different categories.**
10. **Exercise: Combine Matplotlib and Seaborn to create a complex visualization, such as overlaying a KDE plot on a histogram.**