Tasks_19.09_Mathplotlib

Matplotlib Visualization Tasks

Task 1: Bar Plot - Average Salary by Department

Objective: Create a bar plot to visualize the average salary for each department.

Task 2: Scatter Plot - Salary vs Performance Rating

Objective: Generate a scatter plot to visualize the relationship between salary and performance rating.

Task 3: Box Plot - Salary Distribution by Department

Objective: Create a box plot to show the distribution of salaries across different departments.

Task 4: Count Plot - Number of Employees by Department

Objective: Generate a count plot to display the number of employees in each department.

Task 5: Line Plot - Salary Over Time (Start Dates)

Objective: Create a line plot to show how salaries change over time based on start dates.

Task 6: Heatmap - Correlation Matrix

Objective: Create a heatmap to visualize the correlation between numerical features in the dataset.

Task 7: Violin Plot - Salary Distribution by Department

Objective: Create a violin plot to visualize the distribution of salaries for each department.

Task 8: Pair Plot - Relationships Between Numerical Features

Objective: Generate a pair plot to visualize pairwise relationships between numerical features.

Task 9: Histogram - Salary Distribution

Objective: Create a histogram to display the distribution of salaries across all employees.

Task 10: SubPlot - Performance Rating by Project

Objective: Use a `SubPlot` to create scatter plots showing the relationship between salary and performance rating for each project.

Task 11: Strip Plot - Performance Rating by Role

Objective: Create a strip plot to show performance ratings for each role.