**Assignment 1**

[**Human Resource data Set**](https://www.kaggle.com/datasets/rhuebner/human-resources-data-set)

**Bar Chart Visualization:**

Create a bar chart to show the number of employees in each department. Use the Department column for the x-axis and count the number of employees for the y-axis. This will help visualize the distribution of employees across departments.

**Box Plot for Salary Analysis:**

Create a box plot to visualize the salary distribution across different job positions. Use the Position column to categorize and Salary for the salary values. This will help identify the range and outliers in salaries for different positions.

**Gender Distribution:**

Create a bar chart to show the gender distribution within the company. Use the Sex column for categorizing and count the number of employees for each gender. This visualization can help understand the gender balance in the organization.

**Average Salary by Department:**

Create a bar chart to show the average salary for each department. Use the Department column for the x-axis and the average Salary for the y-axis. This visualization will help compare the average salary across different departments.

**Trend Line Analysis:**

Create a trend line to show the average salary over time. Use the DateofHire column to plot the hiring date and Salary for the average salary. This visualization can help identify any salary trends over the years.