DELIVERABLES – ANSH SHARMA

1) Generate a histogram using any library to visualize the distribution of salaries among employees in the dataset.

Answer:

```
In [1]: import pandas as pd
import numpy as np
import matplotlib as mpl
import matplotlib pyplot as plt
import matplotlib inline
**Contplotlib inline
**Contplotlib inline sets the backend of extplotlib to the "inline" backend
In [2]: #01
            # loud the dotoset

of - pd.read_csv(r'C:\Dsers\ADMIM\Downloads\Employee data.csv')
             # Create a histogram
plt.hist(salaries, hims=20, color='green', edgecolor='black')
             # Add title and inbels
plt.title('Oistribution of Salaries menng Employees')
plt.xlabel('Salary')
plt.ylabel('fraquancy')
            # Display the plot
plt.show()
                                        Distribution of Salaries Among Employees
                    140
                    120
                    100
               Requency
                    80
                    60
                     40
                    20
                              20000
                                                                           80000
                                                                                         100000 120000 140000
                                             40000
                                                         60000
                                                                        Salary
```

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2) Generate a bar plot to compare the average salary of male and female employees using any library.

Answer:

```
In [3]: #02

# Group the date by gender and calculate the average salary
average salary by gender = df.groupby('gender')['salary'].*salar()

# Create a bar plot
average salary by gender.plot(kind-'har', calor-['bloo', 'plek'])

# Add title and Labels
plt.titla('Average Salary Comparison by Gender')
plt.ylabel('Average Salary')

# Show the plot
plt.show()

Average Salary Comparison by Gender

40000

35000

40000

15000

10000

5000

10000

5000

10000

5000

10000

5000
```

3. Create a scatter plot using any library to illustrate the relationship between previous work experience (prevexp) and the current salary of employees.

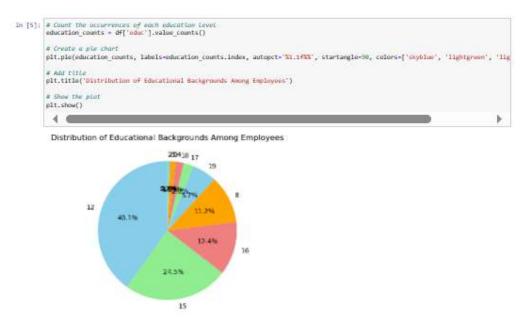
Answer:

```
In [4]: # Extract the relevant columns
          prevexp = df['provexp']
salary = df['salary']
          # Create a scatter plat
          plt.scatter(provexp, salary, color='orange', alpha=8.5)
         # Add fittle and Labels
plt.title('Relationship Between Previous Work Experience and Current Salary')
plt.vlabel('Previous Nork Experience')
plt.ylabel('Current Salary')
          # Show the plot
          plt.show()
                   Relationship Between Previous Work Experience and Current Salary
               140000
               120000
               100000
                60000
                 40000
                20000
                                                                                         400
                                                    Previous Work Experience
```

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4. Generate a pie chart to visualize the distribution of educational backgrounds among employees.

Answer:



5. Use any AI library such as sweetviz or dtale to generate the summary of the data.

Answer:

