

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
%matplotlib inline
#matplotlib inline sets the backend of matplotlib to the "inline" backend
```

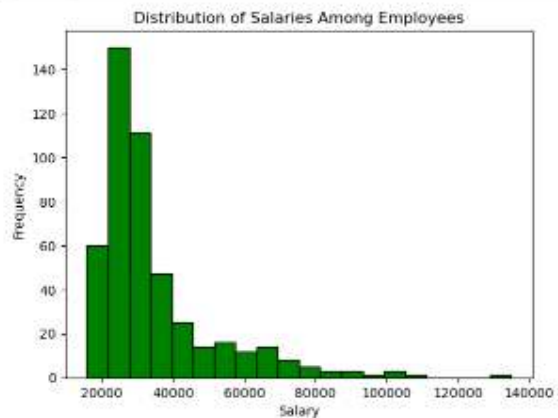
```
In [2]: #Q1
# Load the dataset
df = pd.read_csv(r"C:\Users\ADMIN\Downloads\Employee data.csv")

# Extract the 'salary' column
salaries = df['salary']

# Create a histogram
plt.hist(salaries, bins=20, color='green', edgecolor='black')

# Add title and labels
plt.title('Distribution of Salaries Among Employees')
plt.xlabel('Salary')
plt.ylabel('Frequency')

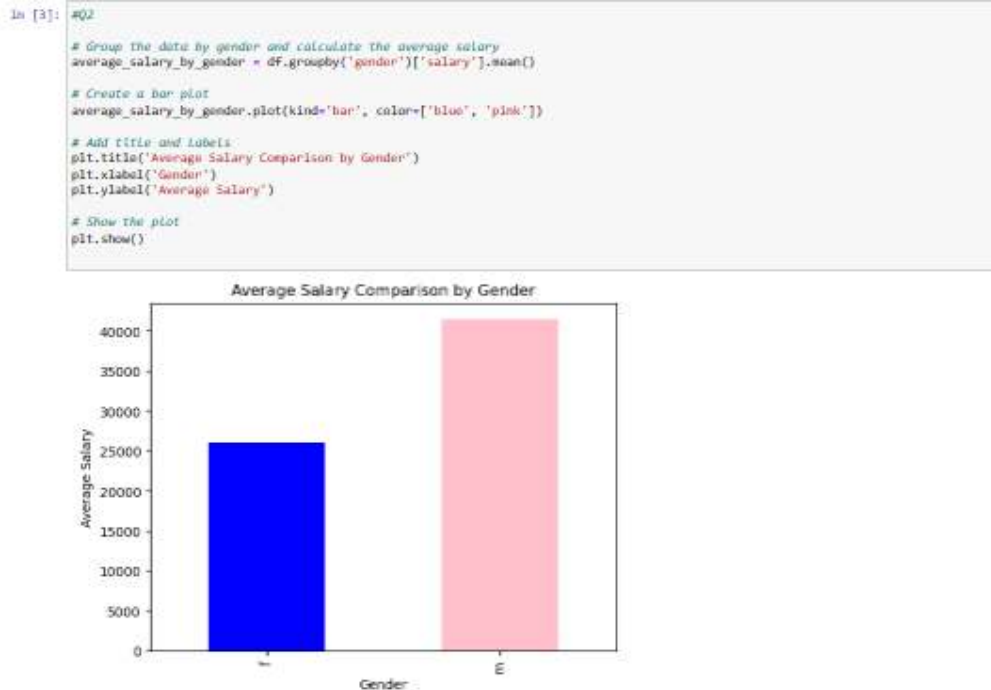
# Display the plot
plt.show()
```



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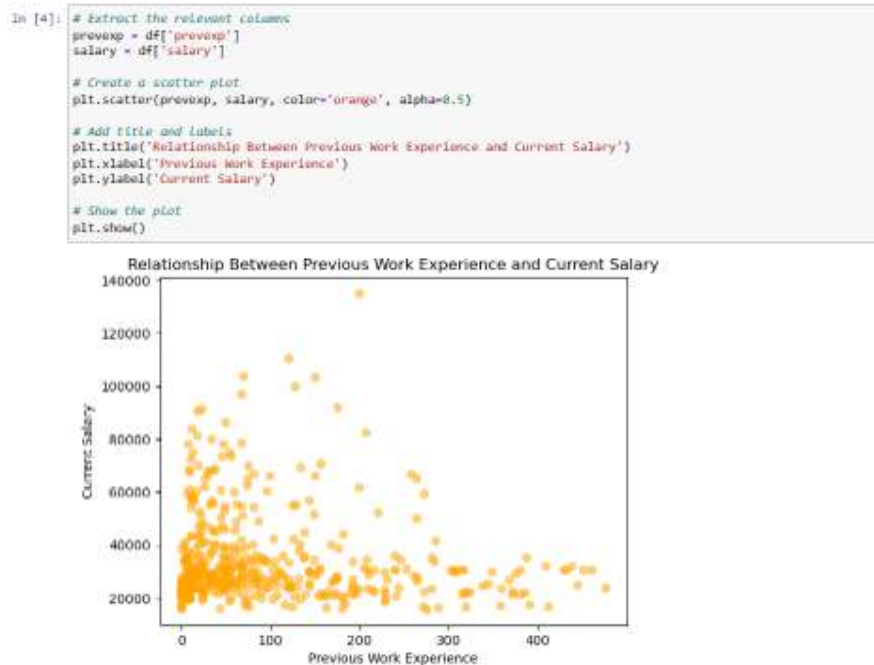
2) Generate a bar plot to compare the average salary of male and female employees using any library.

Answer:



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

Answer:



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

Answer:

```
In [5]: # Count the occurrences of each education level
education_counts = df['educ'].value_counts()

# Create a pie chart
plt.pie(education_counts, labels=education_counts.index, autopct='%1.1f%%', startangle=90, colors=['skyblue', 'lightgreen', 'lightcoral', 'lightblue', 'lightyellow', 'lightpink', 'lightcyan', 'lightgray'])

# Add title
plt.title('Distribution of Educational Backgrounds Among Employees')

# Show the plot
plt.show()
```

Distribution of Educational Backgrounds Among Employees



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

Answer:

