

```

import pandas as pd
import matplotlib.pyplot as plt

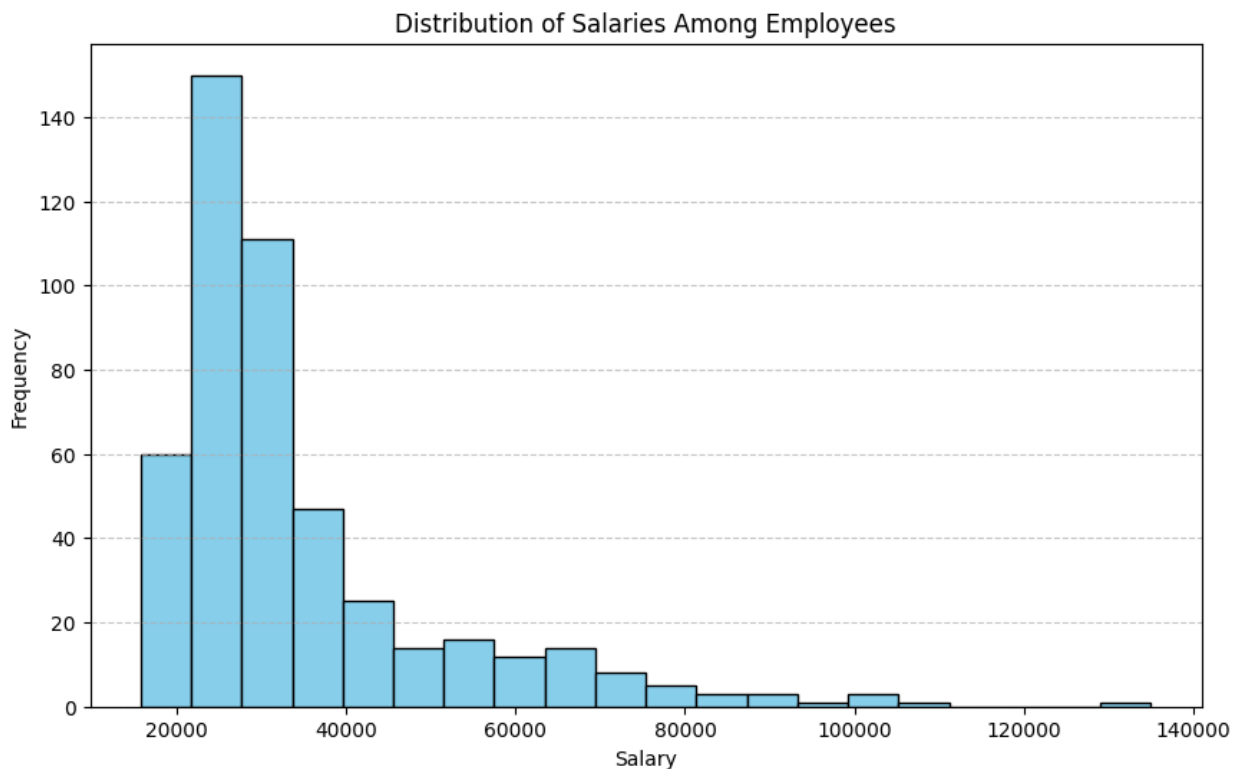
# Load the CSV file into a DataFrame
employee_data = pd.read_csv('/content/Employee data.csv')

# Assuming the column containing salaries is named 'salary'
salary_column = 'salary'

# Plotting the histogram
plt.figure(figsize=(10, 6))
plt.hist(employee_data[salary_column], bins=20, color='skyblue',
         edgecolor='black')
plt.title('Distribution of Salaries Among Employees')
plt.xlabel('Salary')
plt.ylabel('Frequency')
plt.grid(axis='y', linestyle='--', alpha=0.7)

# Show the plot
plt.show()

```



```
pip install seaborn
```

```

Requirement already satisfied: seaborn in
/usr/local/lib/python3.10/dist-packages (0.12.2)
Requirement already satisfied: numpy!=1.24.0,>=1.17 in

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/usr/local/lib/python3.10/dist-packages (from seaborn) (1.23.5)
Requirement already satisfied: pandas>=0.25 in
/usr/local/lib/python3.10/dist-packages (from seaborn) (1.5.3)
Requirement already satisfied: matplotlib!=3.6.1,>=3.1 in
/usr/local/lib/python3.10/dist-packages (from seaborn) (3.7.1)
Requirement already satisfied: contourpy>=1.0.1 in
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>seaborn) (0.12.1)
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>seaborn) (4.47.0)
Requirement already satisfied: kiwisolver>=1.0.1 in
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>seaborn) (1.4.5)
Requirement already satisfied: packaging>=20.0 in
/usr/local/lib/python3.10/dist-packages (from matplotlib!=3.6.1,>=3.1-
>seaborn) (23.2)
Requirement already satisfied: pillow>=6.2.0 in
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>seaborn) (9.4.0)
Requirement already satisfied: pyparsing>=2.3.1 in
/usr/local/lib/python3.10/dist-packages (from matplotlib!=3.6.1,>=3.1-
>seaborn) (3.1.1)
Requirement already satisfied: python-dateutil>=2.7 in
/usr/local/lib/python3.10/dist-packages (from matplotlib!=3.6.1,>=3.1-
>seaborn) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in
/usr/local/lib/python3.10/dist-packages (from pandas>=0.25->seaborn)
(2023.3.post1)
Requirement already satisfied: six>=1.5 in
/usr/local/lib/python3.10/dist-packages (from python-dateutil>=2.7-
>matplotlib!=3.6.1,>=3.1->seaborn) (1.16.0)
```

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

```
employee_data = pd.read_csv('/content/Employee data.csv')
```

```
# Assuming the columns containing gender and salary are named 'gender'
and 'salary'
```

```
gender_column = 'gender'
salary_column = 'salary'
```

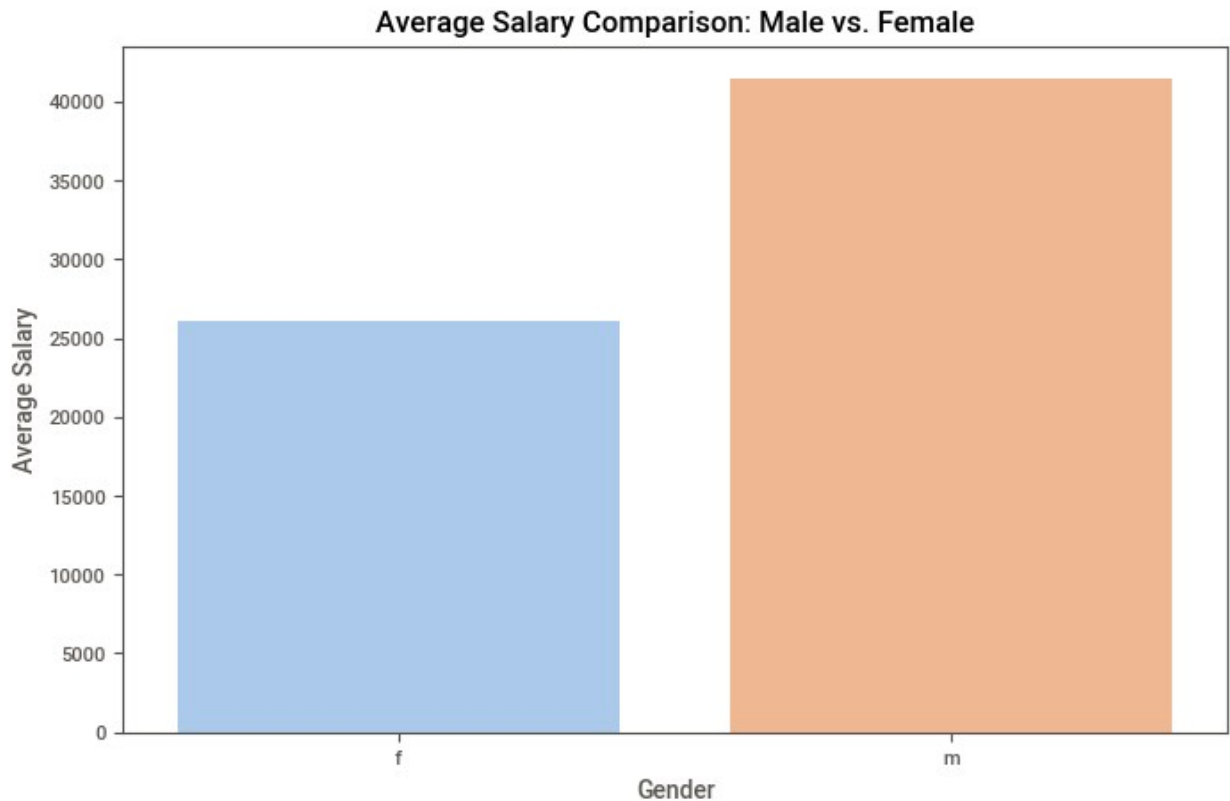
```
# Group the data by gender and calculate the average salary
```

```
average_salary_by_gender = employee_data.groupby(gender_column)
[salary_column].mean().reset_index()
```

```

# Plotting the bar plot
plt.figure(figsize=(8, 5))
sns.barplot(x=gender_column, y=salary_column,
data=average_salary_by_gender, palette='pastel')
plt.title('Average Salary Comparison: Male vs. Female')
plt.xlabel('Gender')
plt.ylabel('Average Salary')
plt.show()

```



```

import pandas as pd
import matplotlib.pyplot as plt

# Load the CSV file into a DataFrame
employee_data = pd.read_csv('/content/Employee data.csv')

# Assuming the columns containing previous work experience and salary
# are named 'prevexp' and 'salary'
prevexp_column = 'prevexp'
salary_column = 'salary'

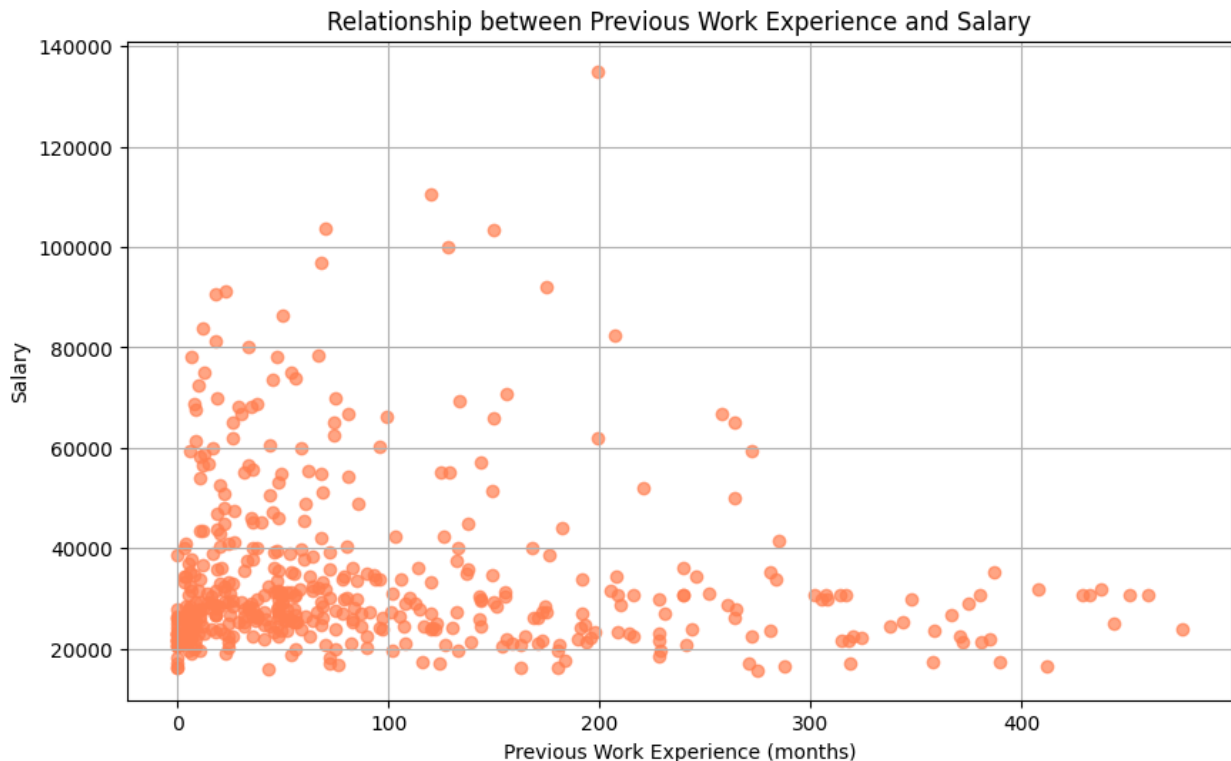
# Plotting the scatter plot
plt.figure(figsize=(10, 6))
plt.scatter(employee_data[prevexp_column],

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employee_data[salary_column], color='coral', alpha=0.7)
plt.title('Relationship between Previous Work Experience and Salary')
plt.xlabel('Previous Work Experience (months)')
plt.ylabel('Salary')
plt.grid(True)
plt.show()

```



```

import pandas as pd
import matplotlib.pyplot as plt

# Load the CSV file into a DataFrame
employee_data = pd.read_csv('/content/Employee data.csv')

# Assuming the column containing educational backgrounds is named 'educ'
educ_column = 'educ'

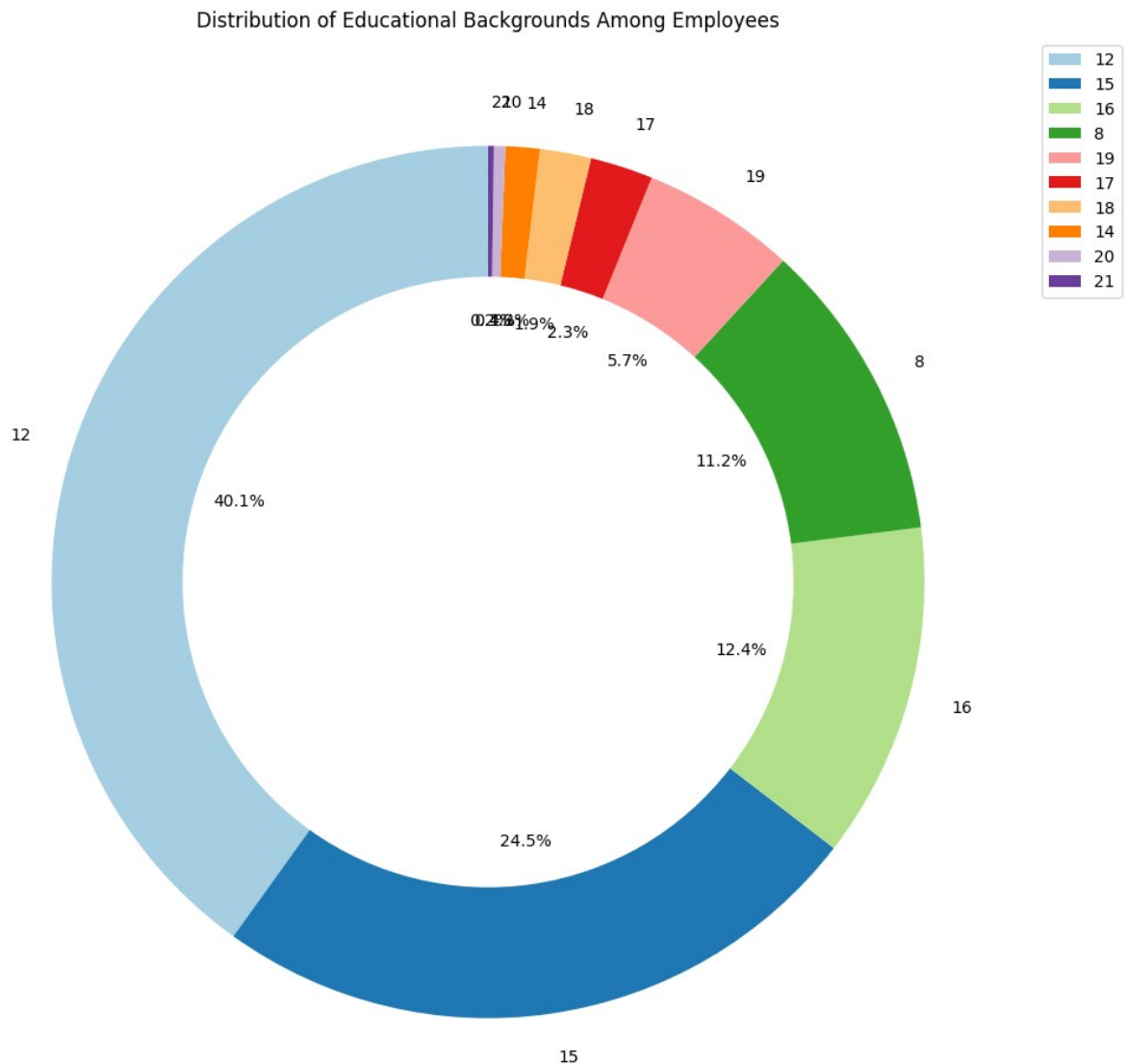
# Count the occurrences of each educational background
educ_counts = employee_data[educ_column].value_counts()

# Plotting the pie chart with improved formatting
plt.figure(figsize=(12, 12))
plt.pie(educ_counts, labels=educ_counts.index, autopct='%1.1f%%',
startangle=90, colors=plt.cm.Paired.colors,
wedgeprops=dict(width=0.3))

```

```
# Move the legend outside the pie chart to avoid overlapping
plt.legend(bbox_to_anchor=(1, 1), loc='upper left')

plt.title('Distribution of Educational Backgrounds Among Employees')
plt.show()
```



```
pip install sweetviz

Collecting sweetviz
  Downloading sweetviz-2.3.1-py3-none-any.whl (15.1 MB)
    15.1/15.1 MB 31.1 MB/s eta
0:00:00
ent already satisfied: pandas!=1.0.0,!=1.0.1,!=1.0.2,>=0.25.3 in
/usr/local/lib/python3.10/dist-packages (from sweetviz) (1.5.3)
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Requirement already satisfied: numpy>=1.16.0 in
/usr/local/lib/python3.10/dist-packages (from sweetviz) (1.23.5)
Requirement already satisfied: matplotlib>=3.1.3 in
/usr/local/lib/python3.10/dist-packages (from sweetviz) (3.7.1)
Requirement already satisfied: tqdm>=4.43.0 in
/usr/local/lib/python3.10/dist-packages (from sweetviz) (4.66.1)
Requirement already satisfied: scipy>=1.3.2 in
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Requirement already satisfied: jinja2>=2.11.1 in
/usr/local/lib/python3.10/dist-packages (from sweetviz) (3.1.2)
Requirement already satisfied: importlib-resources>=1.2.0 in
/usr/local/lib/python3.10/dist-packages (from sweetviz) (6.1.1)
Requirement already satisfied: MarkupSafe>=2.0 in
/usr/local/lib/python3.10/dist-packages (from jinja2>=2.11.1-
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Requirement already satisfied: contourpy>=1.0.1 in
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=1.0.1,!
=1.0.2,>=0.25.3->sweetviz) (2023.3.post1)
Requirement already satisfied: six>=1.5 in
/usr/local/lib/python3.10/dist-packages (from python-dateutil>=2.7-
>matplotlib>=3.1.3->sweetviz) (1.16.0)
Installing collected packages: sweetviz
Successfully installed sweetviz-2.3.1
```

```
import sweetviz as sv
```

```
# Load the CSV file into a DataFrame
employee_data = pd.read_csv('/content/Employee data.csv')

# Generate a report
report = sv.analyze(employee_data)

# Save the report to an HTML file
report.show_html('sweetviz_report.html')

{"model_id":"24f13540f0f349679d0b446869ac4a10","version_major":2,"version_minor":0}
```

Report sweetviz_report.html was generated! NOTEBOOK/COLAB USERS: the web browser MAY not pop up, regardless, the report IS saved in your notebook/colab files.