Jupyter Notebook Execution Report

Name: Govind More

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Cell 1: ■ Code

Cell 2: ■ Code

```
import pandas as pd



import matplotlib.pyplot as plt
```

Cell 3: ■ Code

```
df = pd.read_csv("gender.csv")
```

Cell 4: ■ Code

```
df.head()
```

Output:

```
    Gender   Age   Height (cm)  ...   Marital Status  Income (USD)  Favorite Color
0    male    32           175  ...          Married         75000            Blue
1    male    25           182  ...           Single         45000           Green
2    female    41           160  ...          Married        120000          Purple
3    male    38           178  ...           Single         90000            Red4  female
29           165  ...           Single         35000          Yellow

[5 rows x 9 columns]
```

Cell 5: ■ Code

```
df.shape
```

Output:

```
(131, 9)
```

Cell 6: ■ Code

```
df.columns
```

Output:

```
Index(['Gender', ' Age', ' Height (cm)', ' Weight (kg)', ' Occupation',
' Education Level', ' Marital Status', ' Income (USD)',        '
Favorite Color'],       dtype='str')
```

Cell 7: ■ Code

```
df.info()
```

Output:

```
&lt;class 'pandas.DataFrame'&gt;
RangeIndex: 131 entries, 0 to 130
Data columns (total 9 columns):
 #   Column            Non-Null Count  Dtype
---  ------            --------------  -----
0    Gender            131 non-null    str
1    Age               131 non-null    int64
2    Height (cm)       131 non-null    int64
3    Weight (kg)       131 non-null    int64
4    Occupation        131 non-null    str
5    Education Level   131 non-null    str
6    Marital Status    131 non-null    str
7    Income (USD)      131 non-null    int64 8    Favorite Color    131 non-null    str
     dtypes: int64(4), str(5) memory usage: 9.3 KB
```

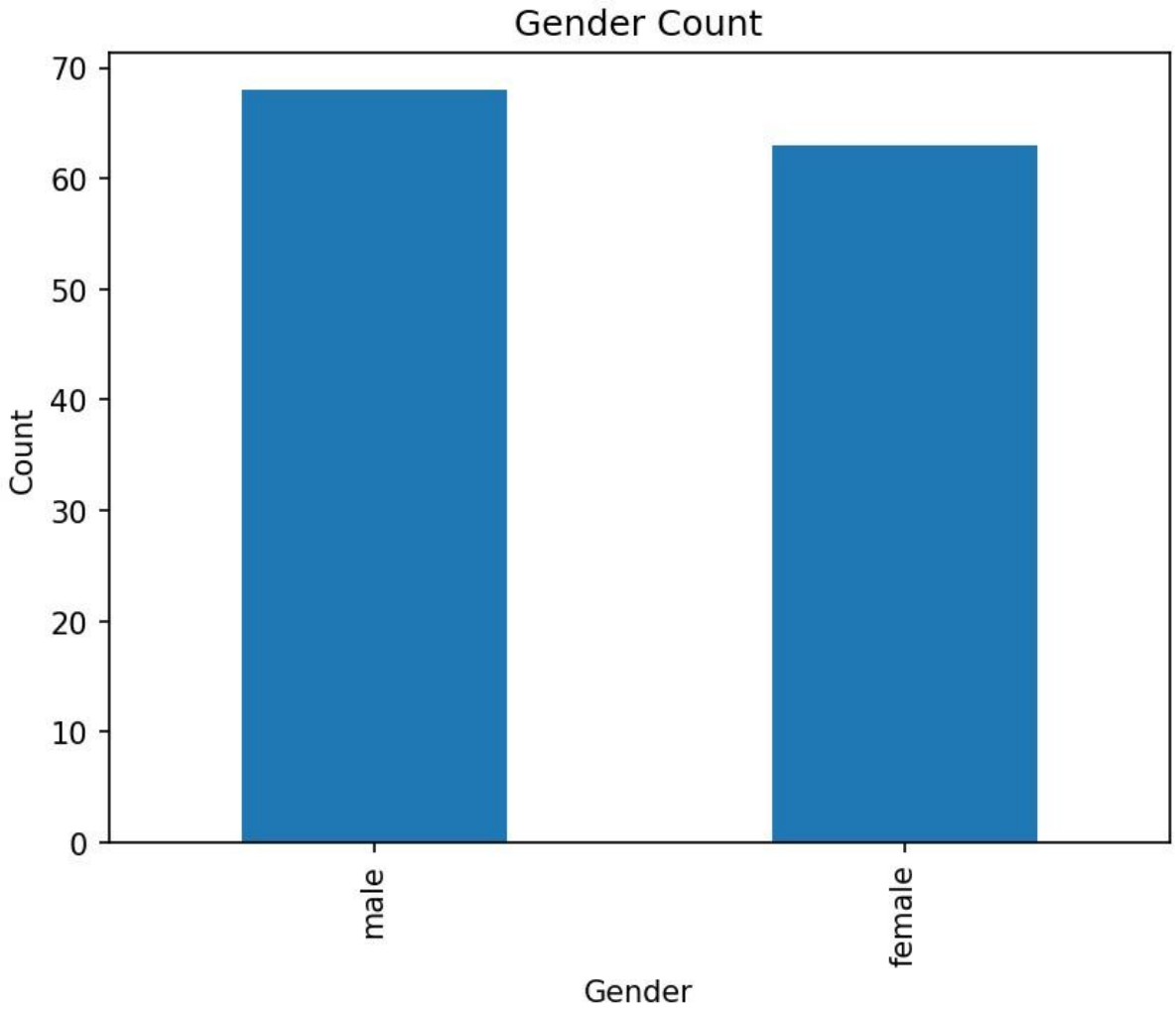
Cell 8: ■ Code

```
df['Gender'].value_counts().plot(kind='bar')


plt.title("Gender Count")
plt.xlabel("Gender")


plt.ylabel("Count")
```

```
plt.show()
```

Output:

```
[STDERR]
&lt;string&gt;:1: UserWarning: FigureCanvasAgg is non-interactive, and thus cannot be shown
```



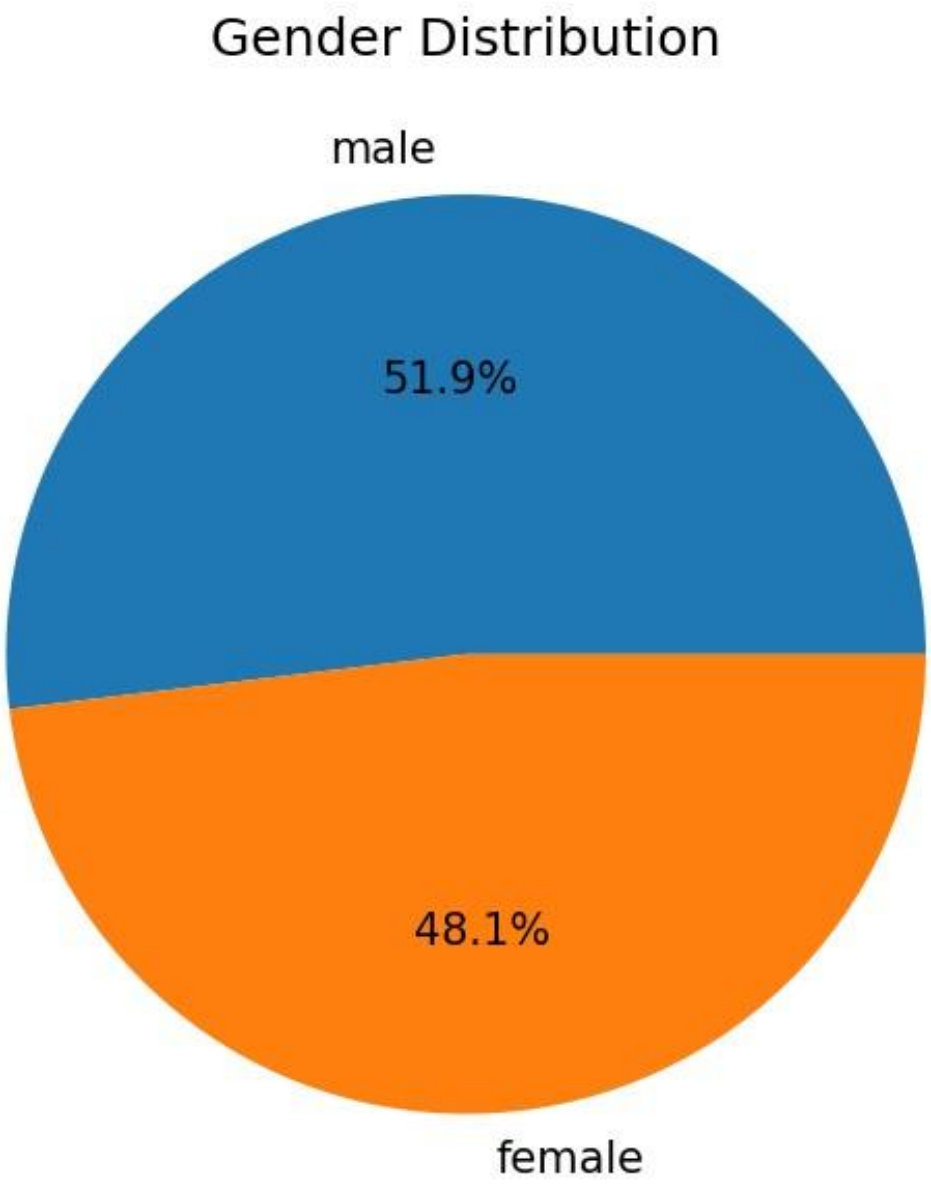
Cell 9: ■ Code

```
df['Gender'].value_counts().plot(kind='pie', autopct='%1.1f%%')


plt.title("Gender Distribution")


plt.ylabel("")
```

```
plt.show()
```

Output:

```
[STDERR]
&lt;string&gt;:1: UserWarning: FigureCanvasAgg is non-interactive, and thus cannot be shown
```



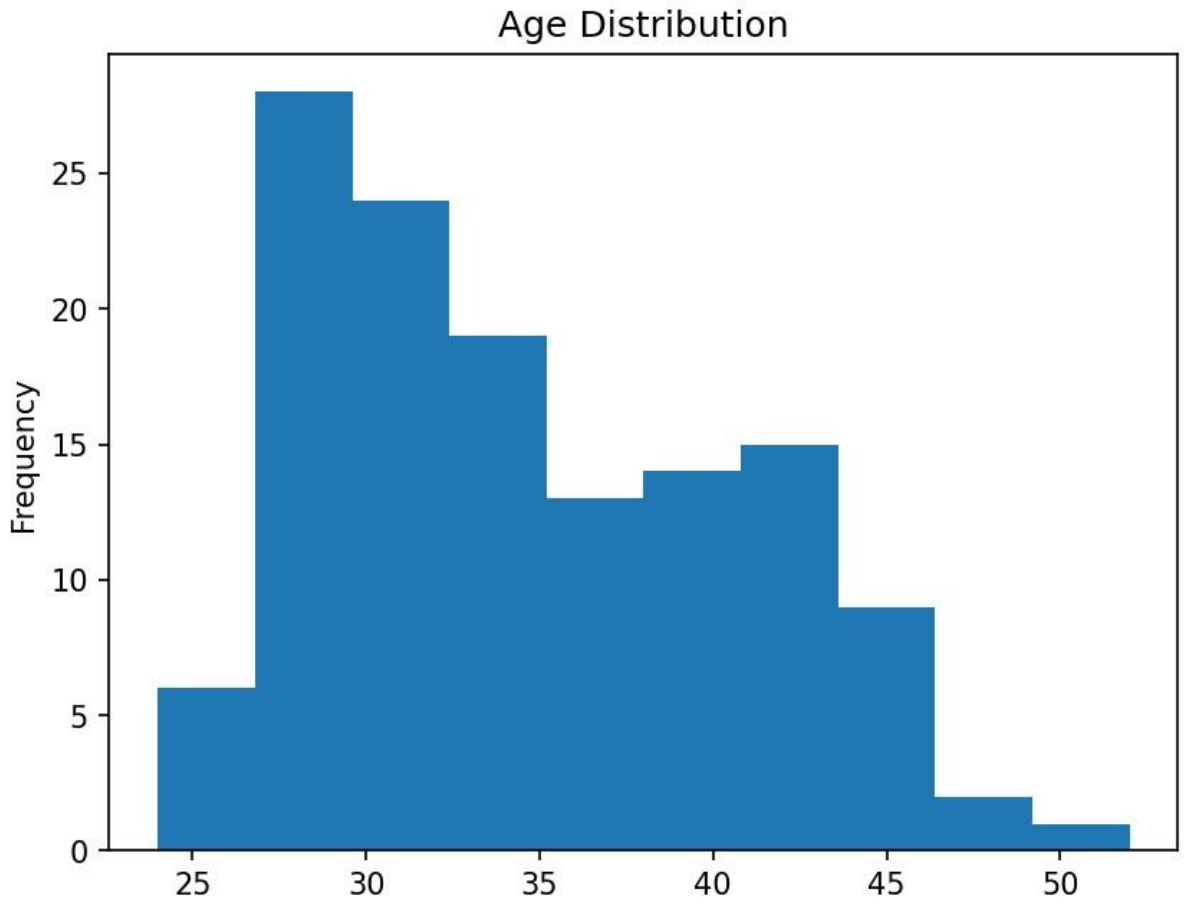
Cell 10: ■ Code

```
df[' Age'].plot(kind='hist')
```

```
plt.title("Age Distribution")
plt.show()
```

Output:

```
[STDERR]
&lt;string&gt;:1: UserWarning: FigureCanvasAgg is non-interactive, and thus cannot be shown
```



Cell 11: ■ Code

```
df['Education Level'] = df[' Education Level'].str.strip()


df['Marital Status'] = df[' Marital Status'].str.strip()
```

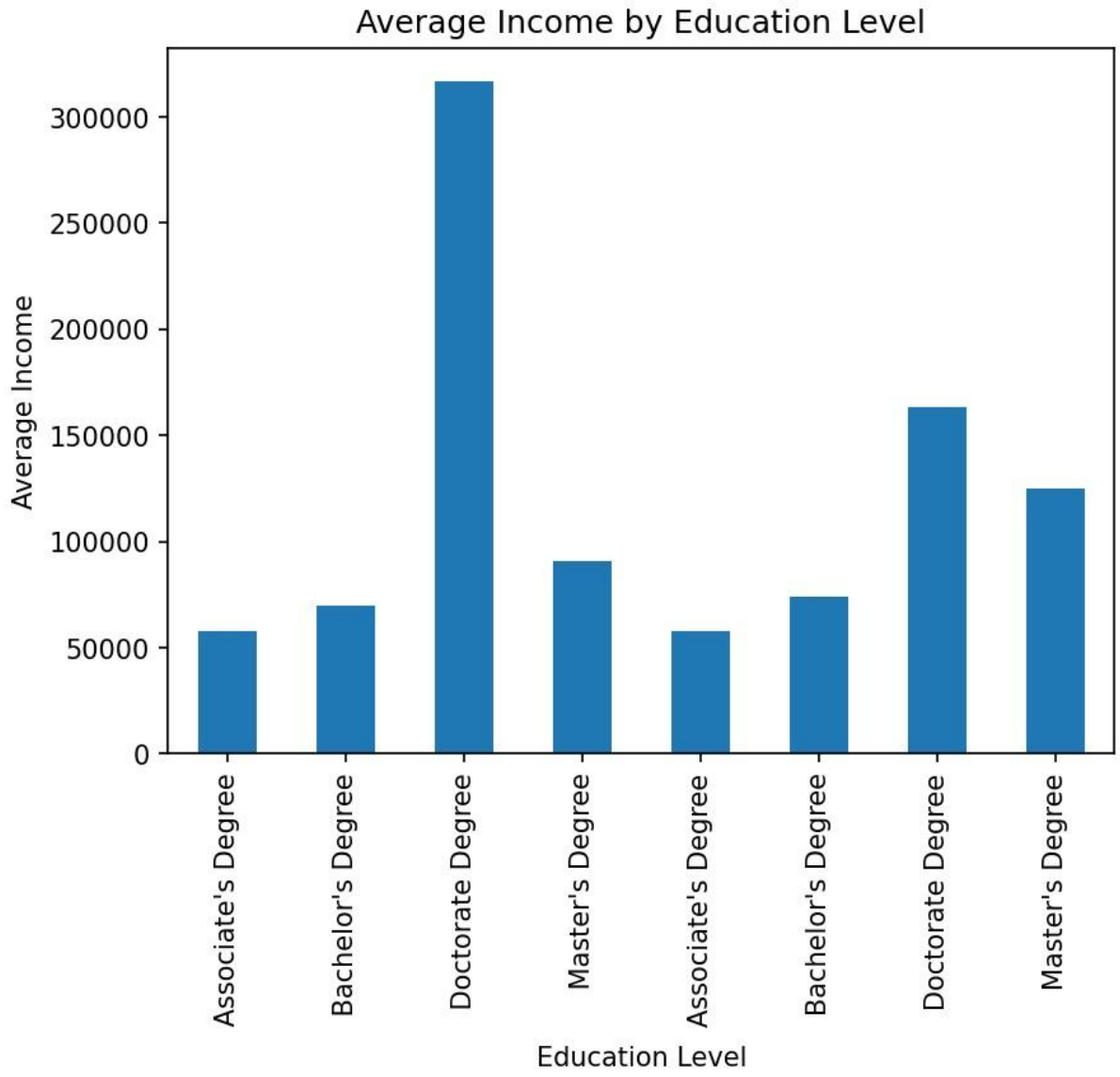
Cell 12: ■ Code

```
df.groupby(' Education Level')[' Income (USD)'].mean().plot(kind='bar')
```

```
plt.title("Average Income by Education Level")


plt.xlabel("Education Level")


plt.ylabel("Average Income")
plt.show()
```

Output:

```
[STDERR]
&lt;string&gt;:1: UserWarning: FigureCanvasAgg is non-interactive, and thus cannot be shown
```



Cell 13: ■ Code

```
df.sort_values(' Age').plot(x=' Age', y=' Income (USD)', kind='line')


plt.title("Age vs Income")


plt.show()
```

Output:

```
[STDERR]
&lt;string&gt;:1: UserWarning: FigureCanvasAgg is non-interactive, and thus cannot be shown
```