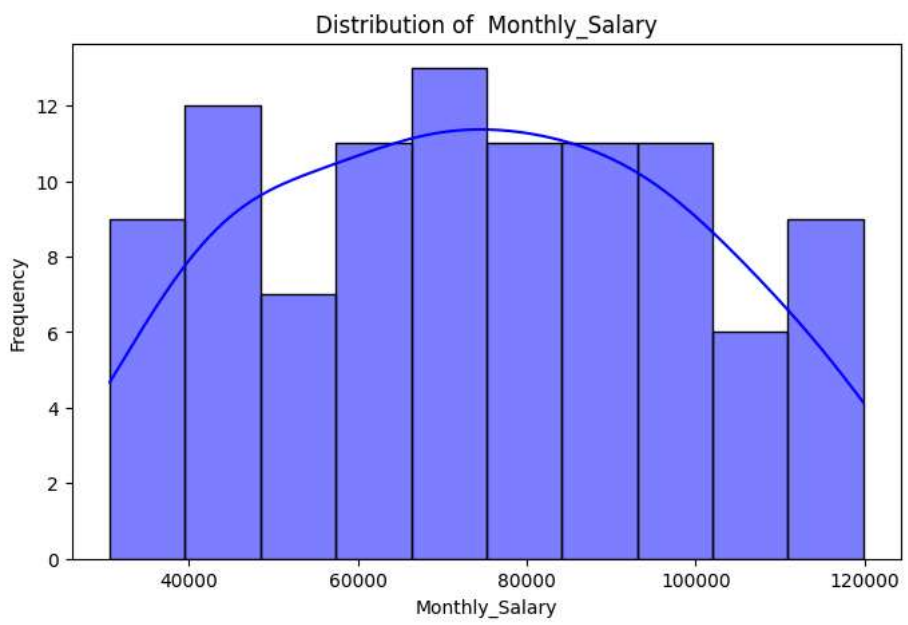
```
import pandas as pd


df = pd.read_csv('/content/employee_performance.csv')
print("Dataset Head:")
print(df.head())
```

```
Dataset Head:
   Employee_ID  Department  Monthly_Salary  Years_of_Experience  \
0            1          HR       115382.10                   17
1            2          HR        32428.50                    6
2            3  Operations        48202.18                    9
3            4          IT        39488.41                    1
4            5          HR        64898.09                    6

   Performance_Score
0                 10
1                  7
2                 10
3                  4
4                  7
```

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


print("Summary Statistics:")
print(df.describe())
```

```
Summary Statistics:
       Employee_ID  Monthly_Salary  Years_of_Experience  Performance_Score
count   100.000000      100.000000           100.000000         100.000000
mean     50.500000    74155.081700            10.240000           5.500000
std      29.011492    24765.021112             5.778959           2.858622
min       1.000000    30634.090000             1.000000           1.000000
25%      25.750000    54103.632500             6.000000           3.000000
50%      50.500000    73622.835000            10.000000           6.000000
75%      75.250000    94087.112500            16.000000           8.000000
max     100.000000   119817.320000            20.000000          10.000000
```

```
plt.figure(figsize=(8, 5))
sns.histplot(df['Monthly_Salary'], bins=10, kde=True, color='blue')
plt.title("Distribution of  Monthly_Salary")
plt.xlabel("Monthly_Salary")
plt.ylabel("Frequency")
plt.show()
```




```
plt.figure(figsize=(8, 5))
sns.scatterplot(x=df['Performance_Score'], y=df['Monthly_Salary'], hue=df['Years_of_Experience'])
plt.title("Monthly_Salary vs.Performance_Score")
plt.xlabel("Performance_Score")
```

```
plt.ylabel("Monthly_Salary")
plt.show()
```


```
numeric_df = df.select_dtypes(include=['number'])
```

```
correlation_matrix = numeric_df.corr()
plt.figure(figsize=(6, 4))
sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm', fmt=".2f")
plt.title("Correlation Heatmap")
plt.show()
```