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E0422037
Aaditya Balakrishnan

```python
from google.colab import files
uploaded = files.upload()
```

Choose Files   📄 heart.csv

heart.csv(text/csv) - 820 bytes, last modified: n/a - 100% done
Saving heart.csv to heart.csv

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


df = pd.read_csv("heart.csv")


print("Missing values in each column:")
print(df.isnull().sum())


corr_matrix = df.corr()
top3_corr = corr_matrix['target'].abs().sort_values(ascending=False)[1:4]  # exc
print("\nTop 3 correlations with target:")
print(top3_corr)


plt.hist(df['age'], bins=15, edgecolor='black')
plt.title("Age Distribution")
plt.xlabel("Age")
plt.ylabel("Count")
plt.show()
```

```
Missing values in each column:
age           0
sex           0
cp            0
trestbps      0
chol          0
fbs           0
restecg       0
thalach       0
exang         0
oldpeak       0
slope         0
ca            0
thal          0
target        0
dtype: int64

Top 3 correlations with target:
age        0.349332
fbs        0.342997
thalach    0.341990
Name: target, dtype: float64
```


Age Distribution