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

# Load the dataset
df = pd.read_csv('/content/svm_data.csv')
df

```

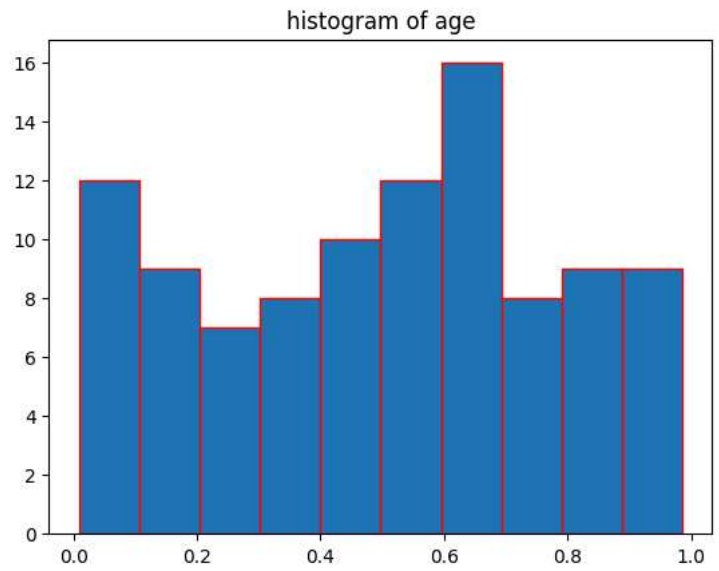
	x1	x2	y
0	0.486861	0.163756	0
1	0.590718	0.429319	0
2	0.537981	0.082374	0
3	0.184411	0.717404	1
4	0.825697	0.414670	1
...	...	...	...
95	0.497268	0.136202	0
96	0.819918	0.334533	1
97	0.328380	0.980288	1
98	0.052043	0.489631	1
99	0.886068	0.930075	0

100 rows × 3 columns

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 100 entries, 0 to 99
Data columns (total 3 columns):
 #   Column  Non-Null Count  Dtype
---  ------  --------------  -----
 0   x1      100 non-null    float64
 1   x2      100 non-null    float64
 2   y       100 non-null    int64
dtypes: float64(2), int64(1)
memory usage: 2.5 KB
```

```
plt.hist(df['x1'], bins=10, edgecolor="red")
plt.title("histogram of age")
plt.show()
```



```
1
2 age_counts = df['x1'].value_counts()
3
4 # Create a bar chart
5 plt.figure(figsize=(10, 6))
6 age_counts.plot(kind='bar', color='pink')
7 plt.title('bar chart')
8 plt.xlabel('x1')
9 plt.ylabel('x2')
10 plt.xticks(rotation=45)  # Rotate x-axis labels for better readability
11 plt.grid(axis='y', linestyle='--', alpha=0.7)
12 plt.tight_layout()
13 plt.show()
14
```