

# INPUT

## # TASK 1

```
#IMPORT MODULES
```

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

```
# Load data
```

```
data =
```

```
pd.read_csv("/content/test.csv")
```

```
# Display first and last rows of the dataframe
```

```
print("HEAD DATA")
```

```
print (data.head() )
```

[illegible]

```
print("TAIL DATA")
```

```
print (data.tail ())
```

```
print("*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*  
*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*  
*-*-*-*-*")
```

[illegible]

```
plt.figure(figsize=(6, 3))
sns.histplot(data["Age"], kde=True)
plt.title("AGE DISTRIBUTION")
plt.xlabel("AGE")
plt.ylabel("COUNT")

plt.show()

#CONSTRUCT HISTOGRAM 2
print("SURVIVAL BY GENDER")
plt.figure(figsize=(6, 3))
sns.histplot(data=data, x="Sex", hue="Sex")
plt.title("SURVIVAL BY GENDER")
plt.xlabel("Gender")
plt.ylabel("Count")
plt.show()

#CONSTRUCT SCATTER PLOT
print("SCATTER PLOT")
plt.figure(figsize=(6, 3))
sns.histplot(data=data, x="Age", y="Fare", hue="Sex")
plt.title("SCATTERPLOT OF AGE AND FARE")
plt.xlabel("AGE")
plt.ylabel("FARE")
```

```
plt.show()
```

## OUTPUT

HEAD DATA

	PassengerId	Pclass	
Name	Sex	\	
0	892	3	
Kelly, Mr. James	male		
1	893	3	Wilkes,
Mrs. James (Ellen Needs)	female		
2	894	2	
Myles, Mr. Thomas Francis	male		
3	895	3	
Wirz, Mr. Albert	male		
4	896	3	Hirvonen, Mrs.
Alexander (Helga E Lindqvist)	female		

	Age	SibSp	Parch	Ticket	Fare
Cabin Embarked					
0	34.5	0	0	330911	7.8292
NaN		Q			
1	47.0	1	0	363272	7.0000
NaN		S			
2	62.0	0	0	240276	9.6875
NaN		Q			
3	27.0	0	0	315154	8.6625
NaN		S			
4	22.0	1	1	3101298	12.2875
NaN		S			
*-*					
*-*					

# TAIL DATA

PassengerId	Pclass	Name	Sex	Age	SibSp	\
413	1305				3	
		Spector, Mr. Woolf	male	NaN	0	
414	1306				1	Oliva y Ocana,
		Dona. Fermina	female	39.0	0	
415	1307				3	Saether, Mr.
		Simon Sivertsen	male	38.5	0	
416	1308				3	Ware,
		Mr. Frederick	male	NaN	0	
417	1309				3	Peter,
		Master. Michael J	male	NaN	1	

Parch	Ticket	Fare
Cabin Embarked		



```
<class 'pandas.core.frame.DataFrame'>
```

RangeIndex: 418 entries, 0 to 417

Data columns (total 11 columns):

#	Column	Non-Null	Count	Dtype
---	-----	-----	-----	-----
0	PassengerId	418	non-null	int64
1	Pclass	418	non-null	int64
2	Name	418	non-null	object
3	Sex	418	non-null	object
4	Age	332	non-null	float64
5	SibSp	418	non-null	int64
6	Parch	418	non-null	int64
7	Ticket	418	non-null	object
8	Fare	417	non-null	float64
9	Cabin	91	non-null	object
10	Embarked	418	non-null	object

```
dtypes: float64(2), int64(4), object(5)
```

```
memory usage: 36.0+ KB
```

None

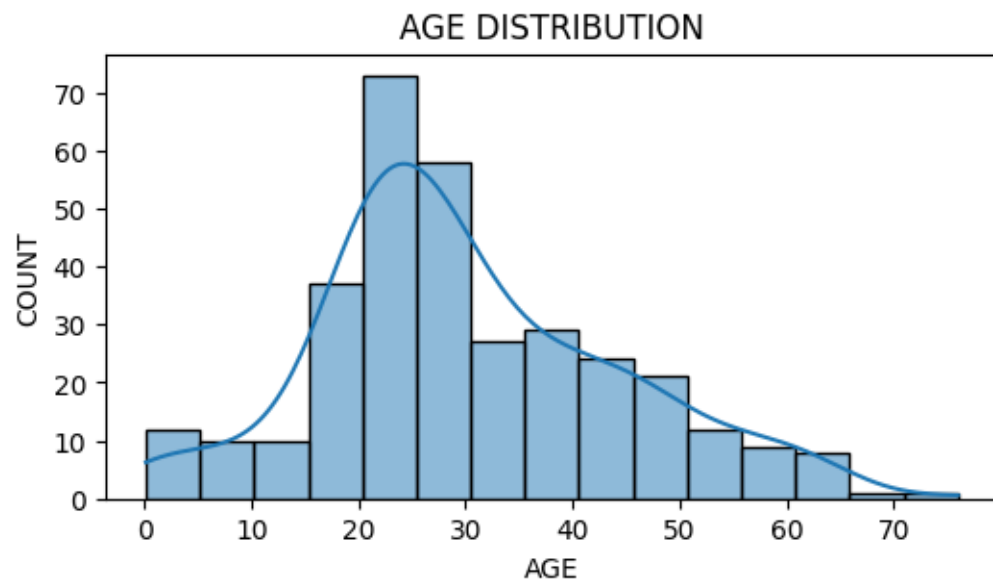
\* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_  
\* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \*

CHECK FOR MISSING VALUES

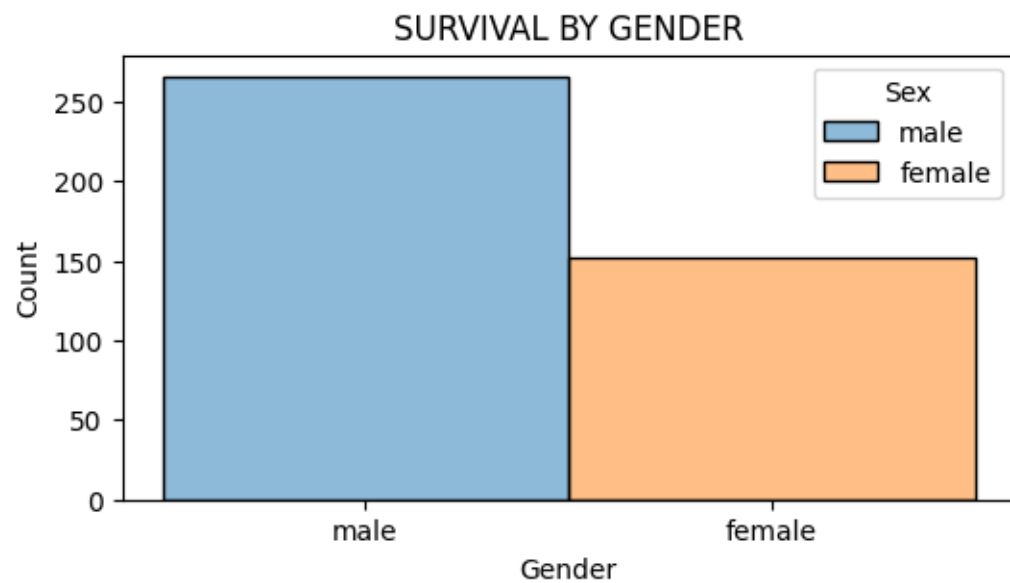
PassengerId	0
Pclass	0
Name	0
Sex	0
Age	86
SibSp	0
Parch	0
Ticket	0
Fare	1

## PLOT AGE DISTRIBUTION





## SURVIVAL BY GENDER



## SCATTER PLOT

