



In [4]:

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

data_path = "C:/Users/91988/Downloads/titanic dataset.csv"
try:
    titanic_data = pd.read_csv(data_path)
except Exception as e:
    print(f"Error loading the dataset: {e}")

print("First few rows of the dataset:")
print(titanic_data.head())

print("\nColumn names in the dataset:")
print(titanic_data.columns)

categorical_variable = 'sex'

# Count plot for the categorical variable (Gender distribution)
plt.figure(figsize=(10, 6))
sns.countplot(x=categorical_variable, data=titanic_data)
plt.title('Distribution of Gender on the Titanic')
plt.xlabel('Gender')
plt.ylabel('Count')
plt.xticks(rotation=45)
plt.show()

continuous_variable = 'age'

# Histogram for the continuous variable (Age distribution)
plt.figure(figsize=(10, 6))
sns.histplot(titanic_data[continuous_variable].dropna(), bins=30, kde=True)
plt.title('Distribution of Ages on the Titanic')
plt.xlabel('Age')
plt.ylabel('Density')
plt.show()
```

Error loading the dataset: [Errno 2] No such file or directory: 'C:/Users/91988/Downloads/titanic dataset.csv'

First few rows of the dataset:

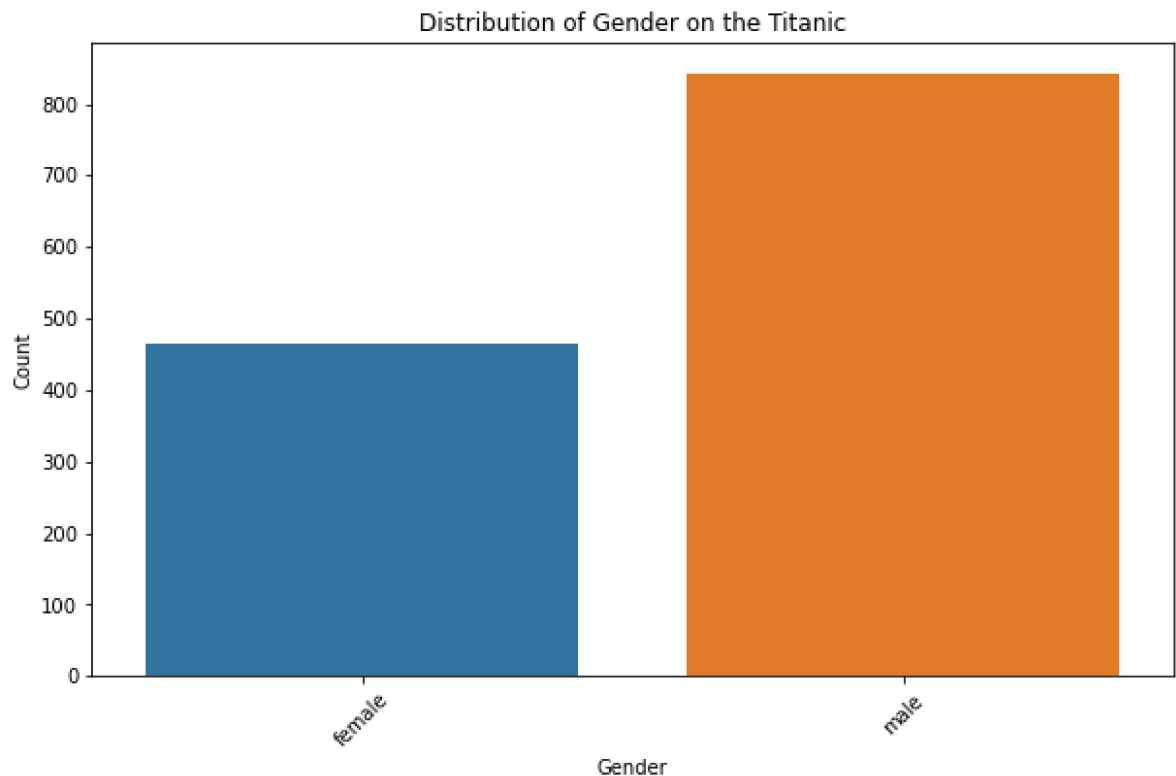
	pclass	survived	name	sex
0	1	1	Allen, Miss. Elisabeth Walton	female
1	1	1	Allison, Master. Hudson Trevor	male
2	1	0	Allison, Miss. Helen Loraine	female
3	1	0	Allison, Mr. Hudson Joshua Creighton	male
4	1	0	Allison, Mrs. Hudson J C (Bessie Waldo Daniels)	female

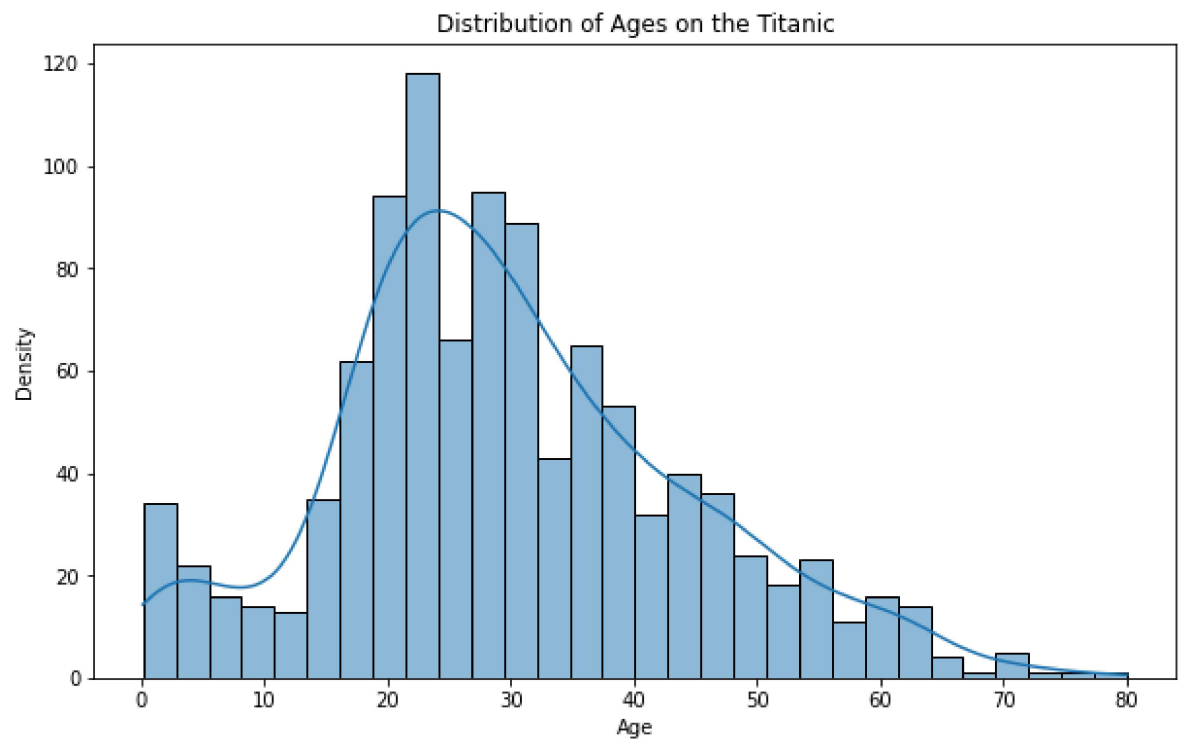
	age	sibsp	parch	ticket	fare	cabin	embarked	boat	body	\
0	29.00	0	0	24160	211.3375	B5	S	2	NaN	
1	0.92	1	2	113781	151.5500	C22 C26	S	11	NaN	
2	2.00	1	2	113781	151.5500	C22 C26	S	NaN	NaN	
3	30.00	1	2	113781	151.5500	C22 C26	S	NaN	135.0	
4	25.00	1	2	113781	151.5500	C22 C26	S	NaN	NaN	

	home.dest
0	St Louis, MO
1	Montreal, PQ / Chesterville, ON
2	Montreal, PQ / Chesterville, ON
3	Montreal, PQ / Chesterville, ON
4	Montreal, PQ / Chesterville, ON

Column names in the dataset:

```
Index(['pclass', 'survived', 'name', 'sex', 'age', 'sibsp', 'parch', 'ticket',
      'fare', 'cabin', 'embarked', 'boat', 'body', 'home.dest'],
      dtype='object')
```





In [ ]: