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

from sklearn.model_selection import train_test_split
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import accuracy_score, classification_report


titanic = sns.load_dataset("titanic")
titanic.head()
```

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	deck	embark_town	alive	alone
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	NaN	Southampton	no	False
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False	C	Cherbourg	yes	False
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False	NaN	Southampton	yes	True
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False	C	Southampton	yes	False
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True	NaN	Southampton	no	True

Next steps: [Generate code with `titanic`] [👁 View recommended plots] [New interactive sheet]

```python
data = titanic[["survived","pclass","sex","age","fare","alone"]].dropna()

# Convert categorical → numeric
data["sex"] = data["sex"].map({"male":0, "female":1})
data["alone"] = data["alone"].astype(int)

# Features (X) and target (y)
X = data.drop("survived", axis=1)
y = data["survived"]

# Train-test split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)


model = LogisticRegression(max_iter=200)
model.fit(X_train, y_train)

# Predictions
y_pred = model.predict(X_test)


acc = accuracy_score(y_test, y_pred)
print("Accuracy:", acc)

print("Classification Report:\n", classification_report(y_test, y_pred))
```
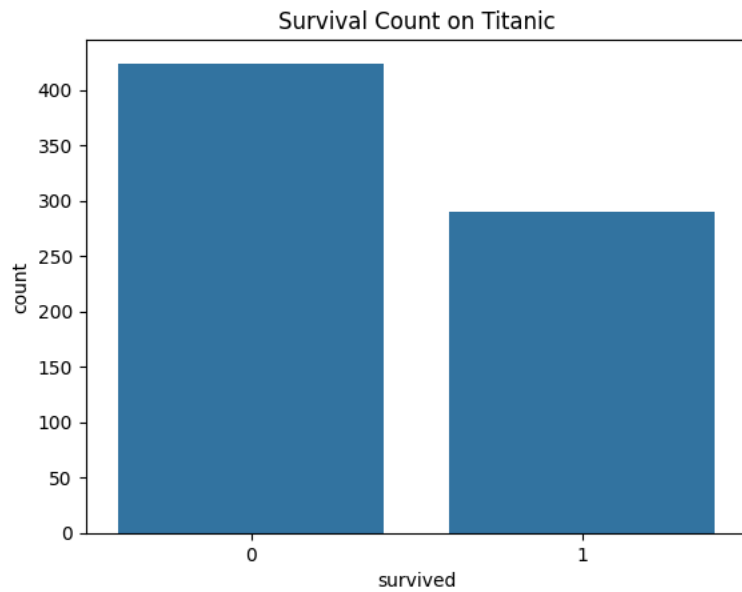
```
Accuracy: 0.7342657342657343
Classification Report:
               precision    recall  f1-score   support

           0       0.78      0.78      0.78        87
           1       0.66      0.66      0.66        56

    accuracy                           0.73       143
   macro avg       0.72      0.72      0.72       143
weighted avg       0.73      0.73      0.73       143
```

```python
sns.countplot(x="survived", data=data)
plt.title("Survival Count on Titanic")
plt.show()
```

Survival Count on Titanic

Start coding or generate with AI.