```
"C:\Users\aakas\Desktop\python projects\.venv\Scripts\python.exe" "C:\Users\aakas\Desktop\python projects\itanic Survival Prediction.py"
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 891 entries, 0 to 890
Data columns (total 12 columns):
 #   Column       Non-Null Count  Dtype
---  ------       --------------  -----
 0   PassengerId  891 non-null    int64
 1   Survived     891 non-null    int64
 2   Pclass       891 non-null    int64
 3   Name         891 non-null    object
 4   Sex          891 non-null    object
 5   Age          714 non-null    float64
 6   SibSp        891 non-null    int64
 7   Parch        891 non-null    int64
 8   Ticket       891 non-null    object
 9   Fare         891 non-null    float64
 10  Cabin        204 non-null    object
 11  Embarked     889 non-null    object
dtypes: float64(2), int64(5), object(5)
memory usage: 83.7+ KB
None
   PassengerId  Survived  Pclass  ...     Fare Cabin Embarked
0            1         0       3  ...   7.2500   NaN        S
1            2         1       1  ...  71.2833   C85        C
2            3         1       3  ...   7.9250   NaN        S
3            4         1       1  ...  53.1000  C123        S
4            5         0       3  ...   8.0500   NaN        S

[5 rows x 12 columns]


C:\Users\aakas\Desktop\python projects\itanic Survival Prediction.py:42: FutureWarning: A value is
```

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32 trying to be set on a copy of a DataFrame or Series
   through chained assignment using an inplace method.
33 The behavior will change in pandas 3.0. This inplace
   method will never work because the intermediate
   object on which we are setting values always behaves
   as a copy.
34
35 For example, when doing 'df[col].method(value,
   inplace=True)', try using 'df.method({col: value},
   inplace=True)' or df[col] = df[col].method(value)
   instead, to perform the operation inplace on the
   original object.
36
37
38   df_processed['Age'].fillna(df_processed['Age'].
   median(), inplace=True)
39 <class 'pandas.core.frame.DataFrame'>
40 RangeIndex: 891 entries, 0 to 890
41 Data columns (total 9 columns):
42  #   Column      Non-Null Count  Dtype
43 ---  ------      --------------  -----
44  0   Survived    891 non-null    int64
45  1   Pclass      891 non-null    int64
46  2   Sex         891 non-null    int64
47  3   Age         891 non-null    float64
48  4   SibSp       891 non-null    int64
49  5   Parch       891 non-null    int64
50  6   Fare        891 non-null    float64
51  7   Embarked_Q  891 non-null    bool
52  8   Embarked_S  891 non-null    bool
53 dtypes: bool(2), float64(2), int64(5)
54 memory usage: 50.6 KB
55 None
56    Survived  Pclass  Sex   Age  SibSp  Parch     Fare
     Embarked_Q  Embarked_S
57 0         0       3    0  22.0      1      0   7.2500
          False        True
58 1         1       1    1  38.0      1      0  71.2833
          False       False
59 2         1       3    1  26.0      0      0   7.9250
          False        True
```

```
60 3          1       1    1  35.0      1       0  53.
   1000       False         True
61 4          0       3    0  35.0      0       0   8.
   0500       False         True
62    Survived  Pclass  Sex   Age  ...  Embarked_Q
   Embarked_S  FamilySize  IsAlone
63 0          0       3    0  22.0  ...       False
          True           2        0
64 1          1       1    1  38.0  ...       False
         False           2        0
65 2          1       3    1  26.0  ...       False
          True           1        1
66 3          1       1    1  35.0  ...       False
          True           2        0
67 4          0       3    0  35.0  ...       False
          True           1        1
68
69 [5 rows x 9 columns]
70 Model Accuracy: 0.7989
71
72 Process finished with exit code 0
73
```