

Ex: 1 ('Survivor') dataset load and
load the titanic dataset and
convert it into a dataframe.

AIM:

To perform basic preprocessing &
exploiting data analysis on the titanic
dataset using pandas, seaborn, sklearn
tools.

Procedure:

Load the dataset.

Display & explore column datatypes.

Apply forward fill & backward

fill methods of age column.

Fill the missing column value.

Remove the unwanted column

Encode the sex column

Display the conclusion.

Code:

import pandas as pd

import seaborn as sns

import matplotlib.pyplot as plt

from sklearn.preprocessing import

LabelEncoder, StandardScaler

df = sns.load_dataset('titanic')
 print ("First 5 Rows")
 Output:

First 5 rows.

survived	passenger_id	sex	age	sibsp	peach	Fare
0	1	M	22	1	7.28	5.12
1	2	F	28	1	7.32	7.25
0	3	F	26	0	7.52	5.31
0	4	M	35	1	7.54	5.10

who	adult - male	date	embark - town
Non	True	Non	Southampton
Woman	False	C	Cherbourg
Non	True	Non	Southampton
Woman	False	C	Southampton

Define

< class pandas - core frame dataframe

Range Index: int64 entries: 0 to 80

data column (total 10 columns)

display (df.head())

print ('(In code)')

df.info()

df['age'] = df['passenger_id'] * age * sibsp

'peach', 'Fare']

plt.title ("Correlation Heatmap")

plt.show()

Result:

Thus the required program of plotting has been executed.