Fx 2

TITANIC DATASET ANALYSIS AND SIMPLE
PREPROCESSING USING PANDAS AND SIMPLE

5/8/27

Aim:
To lead Hearic dataset from csv, handle
mixing values using simple impulse, analyze
key passarger features.

procedure / Alg:

IMPUTER.

Step 1: load titanic csv into a date frame Step 2: Explore dataset shap, info and summary Atahstis.

step 3: Use simple Imputes to fill mining age.

step 4: fill mining calin with "unknown"

and embanced with mod

Stp 5: visualize passanger class distribution.

Step 6: Identity top oldest

Step 7. Split training and testing splits.

program:

import pandas as pd. import seaborn asing import matplottis pyphot on plt. from seatorn. inputs import simple Impular. from sklearn model - selection import train-test-split foom dy = sns load - dataset ('titanic') of ('age') = simple (mouter (strategy = 'mean) of ('duk] = of ('duk'). fill no ('unknown') of ('enland') = of ('enhanced') . fill na (dy ['embanual]. mede [1[0]) Ins countrolot (se = ' pileus', darn = dy) pltfle (parsanger dans distribution) plt- show (). pint ("females (who servied: "; of ((df-sex == " femali") & (df. survived == 1)]. indix . lix1-1).

The on dalying total glass to ad grate begins to degree . The sty of who will had also deliver 400 winder (moule of the hours Total [Dist] He dist.] 100 [[] [] pelas Countries (St. February, date : 191) ple. Produced with membershall and the of the property and interest of the see is Mis what they bereins the the Chang

print ("male passangers who paid false)

100: ", dy [df. sex == 'mal'] &

(df. false >100)]. index. hlish(1).

print ("passangers embanced of o' and in

dars 2:", df (14. embanul == 'ci) &

(df. pelas == 21).

The program surrentfully identifier paisanger with zero false and efficiently splits the datasets into 801 training and 2001. For training