Assi I - Data Weangling - I CSV lik Dataset - titanic teain-csv Requised hibsasies impost numpy as np
impost pandas as pd
impost madphotlib. Pyplot as plt impost seaborn as she Functions useddf = pd. Eead csv - To load files

df. head c) - It's showing top 5 Eesults

df. tail () - It's showing bottom 5 Eesults

df. isnull() sum() - calculating the null values Sns. heatmap.

df. desceibe c) - Get some initial statistics.

df. info () - Getting some into about dataset.

clf. dtypes - finding data types.

ldf. shape - finding Dimensions of the data feame

(no. of Lows & no. of Columns) df.deep. duplicates () of columns Oral Questions with Answers. ① What is mean by Data Perpeacessing?

→ ① checking of missing values using pandas isnull()

function. @ By using describe () function to get some initial statistics. 3 Provide variable description.

(a) Igra of Variably
Detecting the dimensions of data frame
Data explosation - The data is studies, analy 30d & understood by Visualizing superportations of 18th
> Data explosation - The data is at line and
Understand by Visualizing Colored Visualizad &
Understood by Visualizing seperentations of data. Dealing with missing value
(a) Pashasina Auto Salay Valley
the day day - Data is manupulated acrossling to
3 Reshaping data- Data is manipulated acrossling to the Eignizement, where new data can be added of
Jee-existing data canbe modified.
PEC-existing data can be added of PEC-existing data can be added of Giltering data - Some data sets exist with which are required to be removed or filteral
unwanted sow & columns which are seguised
to be somoved as filtesed.
3 Importance of Data Weangling Improve data usubility Converts data into compatible format
= - Improve data usibility
- Converts dota into comentible the most
(4) What is mean by data Means line servers
Clearning Occurs on a smart of the
on the silver of
That it can be used for decision making process? So that it can be used for decision making process.
5) Uses of pundus libealy. -> Panda is open sousce libealy.
-> Panda is open sousce libeary
Usey-
1) Data cleasing @ Data fill
Data normalisation a merger & joine 3 Data visualisation a statistical analysis 4 Data inspection 8 loading & saving data
3) Pata visualization Estatistical analysis
(7) Data inspection (8) loading & saving data
The state of the s

6) uses of numpy Libeary.

- numpy is the numerical python libeary. Uses -(1) Noeking with assays

(2) Noeking in domain of linear algebra.

(3) Fourier transform

(4) Noeking with matricer.

(5) Noeking in vector vector multiplication. The Uses of matplotlib libealy.

The matplotlib is used the data visualization & geophical plotting libeally Chistograms, scattle plots, bose chartes.) (2) Uses of seaborn hibrary.

Seaborn library wed for making statistical graphics in lython. 9) Difference between Matplotlib & Seaborn library - Matplotlib is a pathon libeary used to plot various scaphs with the help of additional libraries like Numby & Pandas - Modplotlib Celecter simple graphs, including histograms, boeglaphs, pie chaets, scatter plots, lines & other visual sepsesentation of data. - Mainly used to plot 2D geophs of assays.
- It uses syntax that selatively complicated & extensive. U ey. matphotlib. PJPlot. bas (x-axis, Y-axis) is the syntax for bas geaph.

Seaborn -
Seaborn is also a pandas library that utilizer. Matprotlib, Pandas & Numpy to prot graphs. It is a superset of matprotlib library.
Motprotlib, Pandas & Numpy to prot graphs.
- It is a superset of matphotlib library
- It has selatively simple statux
eg. Seabozn. bazplot (n-axis, y-axis) syntax toe
- Scaboen is more comportable with fundas data
- Seaborn is more compostable with fundas data
- Fames.
Seaborn prevents overlapping with the help of default theme.
ORTAUD TRIFTING.
10 How to install any Libeary in python prayeous
pip install package-name
eg pip install seaboen.
U ' '
ii.