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WORKING WITH . CSY:

CSY - COMMA SEPERATED VALUES.

It is a simple file format used to store tabular data, such as spreadsheets or database. A CSV file stores tabular data (numbers and text) in a plain text. Each line of the file is a data record.

Each succord consists of one or more fields, specated by commas. The use of the comma as a field seperator is the source of the name for this file format.

For working CSV files in python, there is an inbuilt module called csv.

Because sits a plato text file, sit can contain only actual text-data-in other words, printable ASCII or unicode characters.

READING CSY FILES: (IN PYTHON)

To read the CSV file in python, we use CSV. reader() function.

There are some modules under csy, they are

FUNCTIONS DESCRIPTION

1. CSV. field_size=limit - It returns the max.

field size.

2. csv.get_dialect - Fetches the dialect associated with the name.

DIALECT - A particular version of brogramming language

3- csv. list-déalect - Displays all the registered déalect

4. CSV. register déalect - Déalect associated a with name

5. CSV. writer - writes data to a CSV file.

6. CSV. unsugister_dialect - It deletes the dialect associated with the name dialect registry.

7. CSV. QUOTE_ALL - Quotes everething ivvespecti--ve of the type

8. CSV. QUOTE_MINIMAL-Quotes special character field.

9. CSV. QUOTE_NONNUMERIC - Quotes féelds that are not numeral

10. CSV. QUOTE_NONE - Doesn't quote anything in autput.

READING .esv FILES: IN PANDAS

To import csv feles in pandas, we use sead-csv(). and do operations on it.

since a district - district states



PARAMETER USE

- 1. félépath_or_buffer URL or Dise Location of file. July dollar
- stands for seperator, 2. Sep défault is ',' as in CSV
- Makes passed column as index 3. Index-col Enstead of 0,1,2,3................................
- Makes passed now/s[Intlist] 4. header as header.
- Only uses the passed collisting 5. Use-cols lest] to make data frame.
- 6: Equeeze If true and only column is passed, returns pandas sories.
- 7. Skiprows Skips parsed rows in new data frame.

IRIS DATASET: CSY

df-dataframe

Af = pd. read_csv('data/Iris.csv')

df. head()

Gives the top'5' Iris data

→ df.taill) → Gives the last 5' Isis data

poilnt -> (df.shape) - Gives the shape

+ poelnt (df. columns)

o/p - Index(['Id', 'sepallengthem', 'sepalwidthem'
'petallengthem', 'petalwidthem', 'species'],
dtype = 'object')

-> point (df. mean))

-> point (df. std())

→ olf. descrébe ()

-> df. descelbe (Include = ['object'])

- -> df = pd. seead_csv('datafnyc-weather.csv')
 df. head()
- -> df ['Temperativel']. max() -> max. temperature.
- + of [cf. Temperature = = df. Temperature max()].
 4 select the now with max temperature

tsy - tab seperated value

If the fell is in different location, then the path should be given as I and then the file name.

r'filepath.csv'

→ df['EST'][df['Events'] = = 'Rain'] → which day it rains.

+df.EST[df.Temperature = = df.Temperature max.]
Lyselects the day with max temperature.

die phonode will path to a court file

→ df['wtndspeedMPH']·mean(). 4 Dreveage windspeed.



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-> df['Events']. value_counts()
4 Geves the counts of the events.

-> Off['Events']. unique()

4 gives the data of events which are unique.

-> df. Enfo() - Summary of the data.

READING .XLSX FILES:

The simplest way to read excel files into pandas data frame

SYNTAX:

df = pd. read_excel ('path_to_excel_file',
sheet_name = '...'

Is selected the stand with made herepeterationer

of. - pd. read_excel('data/weather_data.xlsx')

(189)

DATAFRAME TO .CSV & .XLSX:

1/p - import numpy as np import pandas as pd

dect = & 'Name': pd. Series (['Tom', 'Jack', 'steve', 'Ricky', 'vin', 'James', 'smith']),

'Age': pd. Series ([25, 26, 25, 35, 23, 33, 3]),

'Rating': pd. Series ([4.23, 4.1, 3.4, 5, 2.9, 4.7, 3.])}

df = pd. Data Frame (dict)

Prant (df)

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Ly df. to_csv ('data/temp/new_csv_file.csv')

Dottaframe to CSV without index

4 off. to-csv (data/temp/new-csv_file_1.csv)

Endex = False)

Dataframe to XLSX

4 off- to-excel (data/temp/new_excel_file-xlsx',

Sheet_name = 'Stud_data')

6 Smiles

Dataframe to XLSX without index

Railrag

4) df. to_excel (data/temp/new_excel_file_no Index.

xlsx', sheet_name = 'Stud_data', (ndex=false)