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WEB SCRAPING:

It is a term used to describe the use of a program or algorithm to extract and Process large amounts of data from the web.

In this you will learn about:

- 1. DATA EXTRACTION from the web using PYTHON'S BEAUTIFULSOUP module
- 2. DATA MANIPULATION & CLEANING Lising PYTHON'S PANDAS Albrary.
- 3. DATA VISUALIZATION using PYTHON'S MATPLOTLIB Library.

The step by step procedure of web Scraping are as follows:

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STEP-1: IMPORTING NECESSARY LIBRARIES

Import numpy as no Import pandas as pol

Simport sieguests in our plassages = 4518

from 634 import Beautiful Soup

import matphotlib as plt

Import seaborn as sos

Emport plotly express as px.

+ suguest: This is used to extract the HTM2 code of the given URI

4- Beautifulsoup: Scrape and format the data from the HTML

STEP-2: ACCESSING THE HTML CONTENT FROM

URL = 1...... PUMOLOS PINOLA

page = ouquests get (URL)

page.stateus_code

btmlcode = page-text

btmlcode:

STEP-3: PARSING THE HTML CONTENT

Soup = Beautiful Soup (total code)

Soup

Print (soup prettify())

OR EXTRACT
STEP-4: FIND THE TABLES PROM THE ORL

All tables = Soup-find_all ('table')

STEP-5: SELECT THE REQUIRED TABLE FROM ALL ACQUIRED TABLES

my table = soup-find ('table', E'class': '3)

STEP-6: SCRAPING THE DATA FROM WEBPAGE

STEP-T: CONCATENATE THE TWO DATAFRAMES

ALONG COLUMNS

STEP-8: YIEW OF FINAL DATA FRAME

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STEP-9: EXPORT DATAFRAME TO EXCEL/CSV STEP-10: FILLING THE NULL VALUES (NOW NA) Of. Isnull ()- sum ()

STEP-11: REMOVING - CLEANING THE DATA

FRAME USING METACHARACTERS 2

PRE-DEFINED CHARACTER CLASSES

STEP-12: EXPLORATORY DATA ANLYSIS

STEP-13: PLOTTING THE GRAPHS FROM THE
FINAL DATA FRAME (HIST, HEXA, BOX ... etc)

STEP-14: CONCLUSIONS - OBSERVATIONS MA OF
THE GRAPHS OBTAINED

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