Introduction to Regex and Web Scrapping 01 November 2023 08:32 PM
Riger or regen expression or in layman terms often called as a pattern is used when you want to entract a common pattern of data from a very large heap of organized/un organized data.
gy Data → {1, doc1, 2, doc2, doc3, doc4, 2,3,5,7}
Now the task is to find all correct document names with the correct number associated with them
-> If we deserve carefully the common pattern for a correct document name: -> "doc"
(a the constant to the day to the day)
so file common pattern for the abdument name with se - doc (number)
A In order to apply regen, the input must be a steeing.
⇒ Because of the about proporty, reger is widely used in NLP (A prime component of ML and DL)
At the very core sugex is basically helping you verify the structure of a storing by matching it with a pattern.
Real time use case of Regex (1) Checking if input follows a pattern, like is the email correct Sabc @ gmail.com Sabc # oin &
Sabettoin &
(2) In real time data it often happens that 2 different words which mean the same thing need to be captured.
Both refer to the phone only
Both refer to the phone only
3) Entracting specific portion of a text. Egg a text column containing the address is given, and we want to extract postal code,
Mr John Smith, 132, My Street, Kingston, New York 12401
Name Street No. Area Gity Pincode The alway break down can be done using Regex.
Ly pind particular word/ structure or replace a word detected by pattern
(4) Retrive Preplace Structure L> find particular word Structure or replace a word detected by pattern (3) Splitting a text based on the occurrence of a specific character. The Coesting Report Patterns in Ruthon
Leating Regex Patterns in Python
Package -> import re -> hiteral
→ Understanding patterns Swhen you give exactly what you want in your pattern > Text > mat at a last call Pattern > ab
Metachas literally, i.e. case sensitive
Metachar Special characters with a general representative meaning these characters can be combined together to create complex patterns to extract specific text. Depending upon the requirement literal of metaches can also be combined tracker to create a reterm
Depending upon the requirement literal & metachar can also be combined together to create a pattern
eg vai/wt