

In [35]:

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# Group 9
#Team Members: Laxmi Gurung & Neja Gurung
#Project Description:
#Enpoint for all groups is: 'https://newsapi.org/v2/everything?'
#Query Parameters: 'q' is search term , 'pageSize' is the number of articles to retrieve
#Groups 1-10: Search term is 'blockchain' and num of articles is 36
#Date: 11/10/2021

#importing the libraries
import requests
import pandas as pd

#API key used to access the data.
headers = {'Authorization': '*****'}

# Creating parameters to increase the specificty of the request
query_params = {
    'q': 'blockchain',
    'pageSize': 36
}

#main_url is the endpoint to determine what information we are requesting.
main_url = 'https://newsapi.org/v2/everything?'

# fetching data in json format
res = requests.get(main_url, headers = headers, params = query_params)
headlines = res.json()

article = headlines['articles']

# Creating an empty List to store the data
results = []
for ar in article:
    results.append(ar['title'])

# Creating a dictionary to store the required data accordingly with the requirements.
column_dict = {"S.no": [], "Headlines": [], "Characters": [], "Words": []}

# Using for loop to store the data in the column_dict respectively.
for i in range(len(results)):
    column_dict["S.no"].append(i+1)
    column_dict["Headlines"].append(results[i])
    column_dict["Characters"].append(len(results[i]))
    column_dict["Words"].append(len(results[i].split()))
    #print(i+1, results[i], len(results[i]), len(results[i].split()))

#print(column_dict)

# json.dumps encodes the column_dict into JSON formatted String.
json_data = json.dumps(column_dict)

# reading the json_data and storing into a dataframe
df = pd.read_json(json_data)
df

# Converting the dataframe into a csv file.
df.to_csv(r'C:\Users\Laxmi Gurung\Desktop\Fall 2021\CIS 3120 ProgrammingForAnalytics\Mi
```

Out[35]:

	S.no	Headlines	Characters	Words
0	1	Valve bans blockchain games and NFTs on Steam	45	8
1	2	Steam bans games that allow cryptocurrency and...	58	9
2	3	Steam Games With Crypto, NFTs Being Removed Fr...	61	10
3	4	Nervos launches cross-chain bridge to connect ...	66	9
4	5	Photoshop will get a 'prepare as NFT' option soon	49	9
5	6	Fox Bets Big on Blockchain	26	5
6	7	Signal's founder is trolling with an NFT that'...	75	15
7	8	Bitcoin & Blockchain ETFs: What Investors Shou...	53	8
8	9	Italian fashion group OTB joins LVMH-led block...	70	10
9	10	Italian fashion group OTB joins LVMH-led block...	70	10
10	11	Stan Lee comic cameos head to blockchain aucti...	62	10
11	12	Quentin Tarantino to auction off Pulp Fiction ...	74	13
12	13	UPDATE 1-NFT fantasy soccer startup Sorare say...	98	16
13	14	French company Crypto Blockchain Industries to...	83	13
14	15	Wyoming Blockchain City Planned by Crypto Inve...	51	7
15	16	Wyoming Blockchain City Planned by Crypto Inve...	51	7
16	17	Valve Bans Blockchain Games and NFTs On Steam	45	8
17	18	This Entrepreneur Is Trying to Reinvent Big Da...	95	13
18	19	How Success Happened for Hrish Lotlikar, Co-Fo...	73	11
19	20	Binance unit launches \$1 billion fund to fast-...	86	13
20	21	NFT fantasy soccer startup Sorare says NFT fir...	89	15
21	22	The co-founder of Reddit to partner on \$100 mi...	109	18
22	23	The most-traded NFT collection in Q3 was Pokem...	96	14
23	24	Republic raises \$150 million to democratize ac...	72	10
24	25	It Takes a Village: How Blockchain, Crypto and...	72	12
25	26	Paris Hilton heads to the metaverse with Decen...	64	10
26	27	Crypto analytics firm Elliptic raises \$60 mIn ...	77	12
27	28	Check Point Research heads off theft of OpenSe...	64	10
28	29	Solana, Lightspeed, and FTX announce web3 gami...	70	9
29	30	How Blockchain-Based Firms Are Taking Over Ban...	74	11
30	31	Sipher raises \$6.8M for PC-based blockchain ga...	66	10
31	32	Blockchain gaming's true promise: Attracting t...	69	10
32	33	Cryptocurrency ether hits all time high of \$44...	58	10

	S.no	Headlines	Characters	Words
33	34	The Crypto Wallet Hustle -- What You Need to Know	49	10
34	35	A fake press release claiming Kroger accepts c...	86	13
35	36	Web 3.0 Won't Happen if Blockchain Platforms D...	63	11