Using scheduled notebook updates on Kaggle to maintain a daily updated stock price and news sentiment

About Dataset

Input - Input data will be the dataset we created from this notebook output by keeping data in sync with new notebook versions which can be find in metadata section of a dataset that was created directly from a Kaggie Notebook Output Files.

Output - Notebook will fetch today's stock market data , news articles and its sentiment(positive , negative or neutral) , append all this data with input data and output it to the dataset

Notebook will generate 3 files

reliance stock history.csv

Date - Trading date
 Open - Open price of day
 High - Highest price of day
 Low - Lowest price of day
 Close - Closing price of day
 Close - Closing price of day
 Wolume - Amount of asset/secur
 Dividends - Distribution of stock

Stock splits - Shares of stock to its current shareholders

reliance news ison

reliance, news.json

1. author - author of news article

2. title - title of news article

3. description of news article

4. ut - ut of news article

5. source - source of news article

6. image - image of news article

7. category - category of news article

8. language - language of news article

8. language - language of news article

9. country - country name

10. published at - published date

reliance_news_sentiment.csv

1. published at - published date
2. title - title of news article
3. description of description of news article
4. url - url of news article
5. sentiment - news sentiment
6. sentiment - score - news sentiment
6. sentiment - score - news sentiment

How to use this notebook

Follow this steps if you want to create a new dataset for some different company using scheduled notebook updates feature on kaggle

- Citack on the copy & edit button
 Crates ap lexy of mediatated api and add it to secrets (Add-ons-Secrets) with the label mediatated-token.
 If you want to create dataset for different company eg. "TESLA", you can change the variable company_symbol to "TSLA" and search_query (for news articles) to "tesla" which can be find in imports section of the notebook.

 Remove input data
 Go to the Schedule a notebook run with frequency daily with start date today and save.
 Save & run all or do a quick save with the always save output selection selected.
 Navigate to the data/output section of the notebook viewer and find your output files that you saved, they should be there in the output section and then click on the new dataset button that should be right there next to your files and give some name to your dataset and Make sure you click on the keep data in sync with notebook versions.

After following above steps , your notebook will be **updated daily** and dataset will be updated automatically

Installations

```
Collecting yfinance
Downloading yfinance-0.2.52-py2.py3-none-any.whl (108 kB)
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Imports

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             sinitialise today date
today = str(date.today())
yesterday = str(date.today()- timedelta(days = 1))
             #secret keys of mediastack
user_secrets = UserSecretsClient()
mediastack_api_token = user_secrets.get_secret("mediastack-token")
```

```
# output file paths output stock history file paths /reliance_stock_history.csv output_news_file_paths /.reliance_news_json' output_news_sentinent_file_paths /.reliance_news_sentinent_csv
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Create stock market history dataset

```
def create_stock_history_dataset():
    reliance_stock_history=ticker_object.history(period="ld").reset_index()
    return reliance_stock_history
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                                               # create stock market History dataset
ticken_object-yf.Ticken(company_symbol)
if os.path.exist(stock_thistory_file_path)==false:
    reliance_stock_history=create_stock_history_dataset()
else:
    reliance_stock_history=update_stock_history_dataset()
                                                  reliance_stock_history.to_csv(output_stock_history_file_path,index=False)
In [5]: reliance_stock_history
```

	Date	Open	High	Low	Close			Stock Splits
0	2021-10-21 00:00:00	2727.399902	2728.000000	2603.199951	2622.500000	9612230	0.0	0.0
1								
2	2021-10-25 00:00:00	2680.000000		2570.000000	2601.800049	7934786	0.0	0.0
3	2021-10-26 00:00:00	2617.100098	2668.899902	2603.149902	2661.050049	4498720	0.0	0.0
4	2021-10-27 00:00:00	2652.000000	2676.800049	2619.949951	2627.399902	4565815	0.0	0.0
5	2021-10-28 00:00:00	2620.000000	2637.949951	2590.500000	2598.600098	4562471	0.0	0.0
6	2021-10-29 00:00:00	2596.149902	2596.149902	2501.699951	2536.250000	6568539	0.0	0.0
7	2021-11-01 00:00:00	2536.250000	2556.000000	2494.100098	2537.800049	7144150	0.0	0.0
8	2021-11-02 00:00:00	2545.000000	2548.000000	2495.250000	2500.800049	4874582	0.0	0.0
9	2021-11-03 00:00:00	2506.050049	2520.000000	2461.000000	2483.600098	5530635	0.0	0.0
10	2021-11-04 00:00:00	2492.949951	2504.899902	2490.000000	2498.850098	787160	0.0	0.0
11	2021-11-08 00:00:00	2519.399902	2520.000000	2456.399902	2501.949951	9384733	0.0	0.0
12	2021-11-09 00:00:00	2505.000000	2528.899902	2487.050049	2521.699951	7236552	0.0	0.0
13	2021-11-10 00:00:00	2516.699951	2558.000000	2503.649902	2549.899902	4731328	0.0	0.0
14	2021-11-11 00:00:00	2540.050049	2570.500000	2535.550049	2554.550049	4946305	0.0	0.0
15	2021-12-03 00:00:00	2498.399902	2498.500000	2400.000000	2408.250000	8871172	0.0	0.0
16	2021-12-06 00:00:00	2416.000000	2425.000000	2357.149902	2362.600098	4766974	0.0	0.0
17	2021-12-07 00:00:00	2376.149902	2404.000000	2360.000000	2381.850098	5183409	0.0	0.0
18	2021-12-08 00:00:00	2424.100098	2431.800049	2406.300049	2418.100098	4034341	0.0	0.0
19	2021-12-09 00:00:00	2435.000000	2474.899902	2425.000000	2456.449951	6097126	0.0	0.0
20	2021-12-10 00:00:00	2440.250000	2466.000000	2430.350098	2458.949951	3860176	0.0	0.0
21	2021-12-13 00:00:00	2473.500000	2474.100098	2404.000000	2411.449951	5952396	0.0	0.0
22	2021-12-14 00:00:00	2380.000000	2406.000000	2373.399902	2380.149902	5993389	0.0	0.0
23	2021-12-15 00:00:00	2384.000000	2405.000000	2361.100098	2373.199951	4321697	0.0	0.0
24	2021-12-16 00:00:00	2405.699951	2415.500000	2368.649902	2403.899902	4504519	0.0	0.0
25	2021-12-17 00:00:00	2398.050049	2408.000000	2320.000000	2340.449951	9714489	0.0	0.0
26	2021-12-23 00:00:00	2374.000000	2380.000000	2358.050049	2365.250000	4185594	0.0	0.0
27	2021-12-24 00:00:00	2370.000000	2392.000000	2337.550049	2372.800049	3639616	0.0	0.0
28	2021-12-27 00:00:00	2361.550049	2378.000000	2348.100098	2370.250000	1852732	0.0	0.0
29	2021-12-28 00:00:00	2375.600098	2404.850098	2373.050049	2398.399902	2933055	0.0	0.0
30	2021-12-29 00:00:00	2391.000000	2419.000000	2382.100098	2402.500000	7117041	0.0	0.0
31	2021-12-30 00:00:00	2400.000000	2404.949951	2345.600098	2359.100098	13536180	0.0	0.0
32	2021-12-31 00:00:00	2373.000000	2383.899902	2360.000000	2368.149902	4373768	0.0	0.0
33	2022-01-19 00:00:00	2530.000000	2542.000000	2509.000000	2521.600098	4500486	0.0	0.0
34	2022-01-20 00:00:00	2500.050049	2509.949951	2455.000000	2477.449951	7611477	0.0	0.0
35	2022-01-21 00:00:00	2452.000000	2502.250000	2452.000000	2477.850098	6155759	0.0	0.0
36	2022-01-24 00:00:00	2475.000000	2504.750000	2355.100098	2377.899902	10090314	0.0	0.0
37	2022-01-25 00:00:00	2349.550049	2388.649902	2305.000000	2373.250000	11311456	0.0	0.0
38	2022-01-27 00:00:00	2336.000000	2356.100098	2311.050049	2338.100098	9238200	0.0	0.0
39	2022-01-28 00:00:00	2365.000000	2375.899902	2328.399902	2335.850098	6769154	0.0	0.0
40	2022-01-31 00:00:00	2360.199951	2406.399902	2356.199951	2386.600098	5602820	0.0	0.0
41	2022-02-01 00:00:00	2408.000000	2420.600098	2347.100098	2378.699951	6088821	0.0	0.0
42	2022-02-03 00:00:00	2392.000000	2401.449951	2347.199951	2352.750000	4415710	0.0	0.0
43	2022-02-04 00:00:00	2341.000000	2348.449951	2321.100098	2331.300049	5104761	0.0	0.0
44	2022-02-07 00:00:00	2342.000000	2356.800049	2305.000000	2317.100098	4943289	0.0	0.0
45	2022-02-08 00:00:00	2330 649902	2360 000000	2310.000000	2356.050049	5564589	0.0	0.0
46	2022-02-09 00:00:00	2371 149902	2387 199951	2358 000000	2383 500000	5298451	0.0	0.0
47	2022-02-10 00:00:00	2395.699951	2395.699951	2365.100098	2381.050049	5746696	0.0	0.0
48	2022-02-10 00:00:00	2373.250000	2384.500000	2344.100098	2376.399902	7357863	0.0	0.0
48 49	2022-02-11 00:00:00	23/3.250000	2354.500000	2313.000000	2376.399902	4944759	0.0	0.0
49 50	2022-02-14 00:00:00	2351 199951	2423.899902	2335.699951	2417 949951	5173323	0.0	0.0
	2022-02-15 00:00:00				2417.949951	4795130	0.0	0.0
51					L-14.242331	4/22130	0.0	0.0

Create news dataset

```
def create_neus_dataset():
    conn.request('GET', '/vl/neus?{}'.format(params))
    res = conn.getresponse().read()
    reliance_news-son.loads(res.decode('utf-8'))['data"]
    return reliance_news
    return reliance, pase

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Screete ness dataset
if os path-exist(ness file_path)-=false:
reliance_ness-create_ness_dataset()
current_reliance_ness-celiance_ness.copy()
else:
reliance_ness_current_reliance_ness-update_ness_dataset()
    with open(output_news_file_path,'w') as file:
    json.dump({"articles":reliance_news),file)
```

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'title': 'India's Biliance gits shareholders' not to add Areacc chairman as director',
'description': 'Middaulum Sazzi, Indiamalization's biliance Industries tid said on threshy that a required anjority of its shareholders have passed a resolution to appoint Saudi Areacc Chairman Vasir Al-Amanyyan as an indiamatic indiamatic passed in the shareholders have passed a resolution to appoint Saudi Areacc Chairman Vasir Al-Amanyyan as an indiamatic indiamatic passed in the shareholders have passed a resolution to appoint Saudi Areacc Chairman Vasir Al-Amanyyan as an indiamatic passed in the shareholders have passed a resolution to appoint Saudi Areacc Chairman Vasir Al-Amanyyan as an indiamatic passed in the shareholders have passed a resolution to appoint Saudi Areacc Chairman Vasir Al-Amanyyan as an indiamatic passed in the shareholders have passed a resolution to appoint Saudi Areacc Chairman Vasir Al-Amanyyan as an indiamatic passed in the shareholders have passed a resolution to appoint Saudi Areacc Chairman Vasir Al-Amanyyan as an indiamatic passed in the shareholders' have passed a resolution to appoint Saudi Areacc Chairman Vasir Al-Amanyyan as an indiamatic passed in the shareholders have passed a resolution to appoint Saudi Areacc Chairman Vasir Al-Amanyyan as an indiamatic passed in the shareholders' indiamatic passed
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                                                                      image': None,
category': business',
'language': 'en',
country': 'us',
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'title': 'Stocks in Focks on October 25: Relance Industries, Tata Consumer Products, Allan Paints, Steel Stocks to MBFCs and more',
'description': 'Octobing for the fourth op in a row on October 22, 2021, the business' state Consumer Fundance, and the paints, or 6175, to end the day at 69,221.62.\u201828',
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"description': 'ARILII, Subal Grass placemats from Odisha's Repurchary and Enginery per retractions serve-ware fin 
"description": 'ARILII, Subal Grass placemats from Odisha's Repurchary and Engineering Consumers', 
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         Create news sentiment dataset
         For sentiment analysis , I am using huggingface FinBERT model. FinBERT is a pre-tra
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- 1	2021-10-21T13:52:13+00:00	India's Reliance gets shareholders' nod to add	BENGALURU — India's Reliance Indus	https://financialpost.com/pmn/business-pmn/ind	neutral	0.800176
2	2021-10-21T12:45:52+00:00	Rogers misses quarterly revenue estimates	Rogers Communications Inc reported third-quart	https://torontosun.com/business/money-news/rog	negative	0.973185
3	2021-10-21T12:40:35+00:00	Exclusive: Tycoon Nikhil Merchant leads race f	Low-profile Gujarat businessman wants to add P	https://www.businesstoday.in/latest/corporate/	neutral	0.619371
4	2021-10-21T11:43:53+00:00	BP to Open Fuel Station in India Amid Record P	BP and Reliance Industries signed a \$6 billion	https://sputniknews.com/20211021/bp-to-open-fu	positive	0.929962
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652	2022-02-16T03:47:36+00:00	Rupee And Bond Update - February 16, 2022: Rel	Rupee And Bond Update - February 16, 2022: Rel	https://www.bloombergquint.com/research-report	neutral	0.945126
653	2025-01-29T13:54:06+00:00	India launches ₹16,300 Cr Critical Mineral Mis	India approves ₹16,300 Cr Critical Mineral Mis	https://www.deccanchronicle.com/news/india-lau	positive	0.797443
654	2025-01-29T10:05:01+00:00	Government approves Rs 16,300-crore National C	Briefing the media after the Cabinet meeting,	https://www.zeebiz.com/economy-infra/news-cabi	positive	0.746947
655	2025-01-29T04:48:00+00:00	US tech stock tumble highlights risk of market	Turbulence in some of the biggest tech names i	https://cyprus-mail.com/2025/01/29/us-tech-sto	negative	0.659351
656	2025-01-29T04:27:18+00:00	Government focusing on reforming power sector	Federal Minister for Power Sardar Awais Ahmed	https://dailytimes.com.pk/1260622/government-f	positive	0.544296

click here to view the dataset generated by this notebook

Final Notes

So we successfully created our own stock market dataset which is scheduled to be information for predicting future trend of a stock.