

Go India Stocks - Python Intern- Selection Assignment



In order to make this Assignment fun, We are wrapping it with a real life scenario. The following section walks you through the case and specifically tells you the things that you have to include in the python program.

Of late there has been a sudden interest in the term “Green Hydrogen” . You could see this google trend to verify it for yourself on

<https://trends.google.com/trends/explore?q=green%20hydrogen&geo=IN>

As an investor you spend a major part of your time to find such trends and invest in it earlier than everyone else understands it. So you decide to write a python program to figure out the buzz around green hydrogen and what all are the stocks that could benefit due sudden popularity of green hydrogen

Specifically speaking, you are suppose to include the following things in your python program

- Use twitter api to get all tweets which have “green hydrogen” tag
- Use google news rss feed to get all news having “green hydrogen” as keyword

Only include the latest result since 1st February 2022

Please ensure the following things are followed while doing the assignment

- Use FastAPI as a framework to wrap this python program as a REST API
- Ensure that you call both the functions (twitter & google news fetching) asynchronously.
- Use pandas/numpy to merge data from twitter & google news. Merged table should have the following columns - 1) Date of news/twitter , 2)Tweet content/news headline 3)source of news / person name who has tweeted
- Use pandas.DataFrame.apply to add an extra column in this merged table called sentiment score. For sentiment analysis use a pre-trained sentiment analysis model on huggingface (Incase you are not familiar. Please see this [link](#). You would be able to integrate them with Python in 3-4 line code)
- Finally you have to save the table as a csv

Additional notes:

- It is a good practice to maintain good readability and structure while building your code and ensure to make it as robust/ efficient as possible.
- Share the code on git, with specific instructions on how to run it. Mail the git link containing the solution along with your resume on ashish@goindiaadvisors.com

*For any Clarification please contact Ashish Prasad (Product Manager - AI) @
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