Alpha Vantage API with Python, Stock market data for data analysis.

First were going to python -m venv env

Making virtual environment and then I will install packages you need as we go but you just git clone the repo.

# import pandas lib as pd

import pandas as pd

#  pip install openpyxl

# read by default 1st sheet of an excel file

dataframe1 = pd.read\_excel('SteelIndustry.xlsx')

list\_of\_tickers = dataframe1['Ticker'].to\_numpy()

# API call

key = 'D03VFL5XJ25QWELA'

pathway = r'E:\StockFolder\outputfolder/'

from apiCall import earnings

# pass out key parameter

# pass our list\_of\_tickers

#output data

earnings(key, list\_of\_tickers, pathway)

from alpha\_vantage.timeseries import TimeSeries

import time

import requests

import json

from pandas import json\_normalize

import pandas as pd

def earnings(key, list\_of\_tickers, output\_path):

    """

    key - API key from aplhavantage

    list\_of\_tickers = [] list only

    return dataframe

    """

    i = 0

    df2 = pd.DataFrame()

    for ticker in list\_of\_tickers:

        i = i + 1

        url = 'https://www.alphavantage.co/query?function=EARNINGS&symbol={}&apikey={}'.format(ticker, key)

        response = requests.get(url)

        response\_dict = response.json()

        print(response\_dict)

        if i % 4 == 0:

            print("waiting ...")

            time.sleep(60)

        print(type(response\_dict))

        try:

            selected\_json = response\_dict['quarterlyEarnings']

        except:

            print("Didnt save", ticker)

            continue

        if isinstance(selected\_json, list):

            pass

        try:

            selected\_json = response\_dict['quarterlyEarnings']

        except:

            # \_, header= response.json()

            # print(\_)

            # print(header)

            print("Didnt save", ticker)

            continue

        # Convert to pandas dataframe

        df = pd.DataFrame(selected\_json)

        df.to\_csv(output\_path + 'file\_quarterlyEarnings\_{}.csv'.format(str(ticker)))

    return print("succesful query ")