

Final Assignment

July 25, 2025

Extracting and Visualizing Stock Data

Description

Extracting essential data from a dataset and displaying it is a necessary part of data science; therefore individuals can make correct decisions based on the data. In this assignment, you will extract some stock data, you will then display this data in a graph.

Table of Contents

- Define a Function that Makes a Graph
- Question 1: Use yfinance to Extract Stock Data
- Question 2: Use Webscraping to Extract Tesla Revenue Data
- Question 3: Use yfinance to Extract Stock Data
- Question 4: Use Webscraping to Extract GME Revenue Data
- Question 5: Plot Tesla Stock Graph
- Question 6: Plot GameStop Stock Graph

Estimated Time Needed: 30 min

Note:- If you are working Locally using anaconda, please uncomment the following code and execute it. Use the version as per your python version.

```
[1]: !pip install yfinance
      !pip install bs4
      !pip install nbformat
      !pip install --upgrade plotly
```

Requirement already satisfied: yfinance in /opt/conda/lib/python3.12/site-packages (0.2.65)

Requirement already satisfied: pandas>=1.3.0 in /opt/conda/lib/python3.12/site-packages (from yfinance) (2.3.1)

Requirement already satisfied: numpy>=1.16.5 in /opt/conda/lib/python3.12/site-packages (from yfinance) (2.3.2)

Requirement already satisfied: requests>=2.31 in /opt/conda/lib/python3.12/site-packages (from yfinance) (2.32.3)

Requirement already satisfied: multitasking>=0.0.7 in /opt/conda/lib/python3.12/site-packages (from yfinance) (0.0.12)

Requirement already satisfied: platformdirs>=2.0.0 in /opt/conda/lib/python3.12/site-packages (from yfinance) (4.3.6)

Requirement already satisfied: pytz>=2022.5 in /opt/conda/lib/python3.12/site-packages (from yfinance) (2024.2)

Requirement already satisfied: frozendict>=2.3.4 in /opt/conda/lib/python3.12/site-packages (from yfinance) (2.4.6)

Requirement already satisfied: peewee>=3.16.2 in /opt/conda/lib/python3.12/site-packages (from yfinance) (3.18.2)

Requirement already satisfied: beautifulsoup4>=4.11.1 in /opt/conda/lib/python3.12/site-packages (from yfinance) (4.12.3)

Requirement already satisfied: curl_cffi>=0.7 in /opt/conda/lib/python3.12/site-packages (from yfinance) (0.12.0)

Requirement already satisfied: protobuf>=3.19.0 in /opt/conda/lib/python3.12/site-packages (from yfinance) (6.31.1)

Requirement already satisfied: websockets>=13.0 in /opt/conda/lib/python3.12/site-packages (from yfinance) (15.0.1)

Requirement already satisfied: soupsieve>1.2 in /opt/conda/lib/python3.12/site-packages (from beautifulsoup4>=4.11.1->yfinance) (2.5)

Requirement already satisfied: cffi>=1.12.0 in /opt/conda/lib/python3.12/site-packages (from curl_cffi>=0.7->yfinance) (1.17.1)

Requirement already satisfied: certifi>=2024.2.2 in /opt/conda/lib/python3.12/site-packages (from curl_cffi>=0.7->yfinance) (2024.12.14)

Requirement already satisfied: python-dateutil>=2.8.2 in /opt/conda/lib/python3.12/site-packages (from pandas>=1.3.0->yfinance) (2.9.0.post0)

Requirement already satisfied: tzdata>=2022.7 in /opt/conda/lib/python3.12/site-packages (from pandas>=1.3.0->yfinance) (2025.2)

Requirement already satisfied: charset_normalizer<4,>=2 in /opt/conda/lib/python3.12/site-packages (from requests>=2.31->yfinance) (3.4.1)

Requirement already satisfied: idna<4,>=2.5 in /opt/conda/lib/python3.12/site-packages (from requests>=2.31->yfinance) (3.10)

Requirement already satisfied: urllib3<3,>=1.21.1 in /opt/conda/lib/python3.12/site-packages (from requests>=2.31->yfinance) (2.3.0)

Requirement already satisfied: pycparser in /opt/conda/lib/python3.12/site-packages (from cffi>=1.12.0->curl_cffi>=0.7->yfinance) (2.22)

Requirement already satisfied: six>=1.5 in /opt/conda/lib/python3.12/site-packages (from python-dateutil>=2.8.2->pandas>=1.3.0->yfinance) (1.17.0)

Requirement already satisfied: bs4 in /opt/conda/lib/python3.12/site-packages (0.0.2)

Requirement already satisfied: beautifulsoup4 in /opt/conda/lib/python3.12/site-packages (from bs4) (4.12.3)

Requirement already satisfied: soupsieve>1.2 in /opt/conda/lib/python3.12/site-packages (from beautifulsoup4->bs4) (2.5)

Requirement already satisfied: nbformat in /opt/conda/lib/python3.12/site-packages (5.10.4)

Requirement already satisfied: fastjsonschema>=2.15 in /opt/conda/lib/python3.12/site-packages (from nbformat) (2.21.1)

Requirement already satisfied: jsonschema>=2.6 in /opt/conda/lib/python3.12/site-packages (from nbformat) (4.23.0)

Requirement already satisfied: jupyter-core!=5.0.*,>=4.12 in /opt/conda/lib/python3.12/site-packages (from nbformat) (5.7.2)

Requirement already satisfied: traitlets>=5.1 in /opt/conda/lib/python3.12/site-packages (from nbformat) (5.14.3)

Requirement already satisfied: attrs>=22.2.0 in /opt/conda/lib/python3.12/site-packages (from jsonschema>=2.6->nbformat) (25.1.0)

Requirement already satisfied: jsonschema-specifications>=2023.03.6 in /opt/conda/lib/python3.12/site-packages (from jsonschema>=2.6->nbformat) (2024.10.1)

Requirement already satisfied: referencing>=0.28.4 in /opt/conda/lib/python3.12/site-packages (from jsonschema>=2.6->nbformat) (0.36.2)

Requirement already satisfied: rpds-py>=0.7.1 in /opt/conda/lib/python3.12/site-packages (from jsonschema>=2.6->nbformat) (0.22.3)

Requirement already satisfied: platformdirs>=2.5 in /opt/conda/lib/python3.12/site-packages (from jupyter-core!=5.0.*,>=4.12->nbformat) (4.3.6)

Requirement already satisfied: typing-extensions>=4.4.0 in /opt/conda/lib/python3.12/site-packages (from referencing>=0.28.4->jsonschema>=2.6->nbformat) (4.12.2)

Requirement already satisfied: plotly in /opt/conda/lib/python3.12/site-packages (6.2.0)

Requirement already satisfied: narwhals>=1.15.1 in /opt/conda/lib/python3.12/site-packages (from plotly) (1.48.1)

Requirement already satisfied: packaging in /opt/conda/lib/python3.12/site-packages (from plotly) (24.2)

```
[2]: import yfinance as yf
import pandas as pd
import requests
from bs4 import BeautifulSoup
import plotly.graph_objects as go
from plotly.subplots import make_subplots
```

```
[3]: import plotly.io as pio
pio.renderers.default = "iframe"
```

In Python, you can ignore warnings using the warnings module. You can use the filterwarnings function to filter or ignore specific warning messages or categories.

```
[4]: import warnings
# Ignore all warnings
warnings.filterwarnings("ignore", category=FutureWarning)
```

0.1 Define Graphing Function

In this section, we define the function `make_graph`. You don't have to know how the function works, you should only care about the inputs. It takes a dataframe with stock data

(dataframe must contain Date and Close columns), a dataframe with revenue data (dataframe must contain Date and Revenue columns), and the name of the stock.

```
[5]: def make_graph(stock_data, revenue_data, stock):
    fig = make_subplots(rows=2, cols=1, shared_xaxes=True,
        ↳ subplot_titles=("Historical Share Price", "Historical Revenue"),
        ↳ vertical_spacing = .3)
    stock_data_specific = stock_data[stock_data.Date <= '2021-06-14']
    revenue_data_specific = revenue_data[revenue_data.Date <= '2021-04-30']
    fig.add_trace(go.Scatter(x=pd.to_datetime(stock_data_specific.Date,
        ↳ infer_datetime_format=True), y=stock_data_specific.Close.astype("float"),
        ↳ name="Share Price"), row=1, col=1)
    fig.add_trace(go.Scatter(x=pd.to_datetime(revenue_data_specific.Date,
        ↳ infer_datetime_format=True), y=revenue_data_specific.Revenue.
        ↳ astype("float"), name="Revenue"), row=2, col=1)
    fig.update_xaxes(title_text="Date", row=1, col=1)
    fig.update_xaxes(title_text="Date", row=2, col=1)
    fig.update_yaxes(title_text="Price ($US)", row=1, col=1)
    fig.update_yaxes(title_text="Revenue ($US Millions)", row=2, col=1)
    fig.update_layout(showlegend=False,
        height=900,
        title=stock,
        xaxis_rangeslider_visible=True)
    fig.show()
    from IPython.display import display, HTML
    fig_html = fig.to_html()
    display(HTML(fig_html))
```

Use the `make_graph` function that we've already defined. You'll need to invoke it in questions 5 and 6 to display the graphs and create the dashboard. > **Note: You don't need to redefine the function for plotting graphs anywhere else in this notebook; just use the existing function.**

0.2 Question 1: Use yfinance to Extract Stock Data

Using the `Ticker` function enter the ticker symbol of the stock we want to extract data on to create a ticker object. The stock is Tesla and its ticker symbol is `TSLA`.

```
[6]: tsla = yf.Ticker("TSLA")
```

Using the ticker object and the function `history` extract stock information and save it in a dataframe named `tesla_data`. Set the `period` parameter to `"max"` so we get information for the maximum amount of time.

```
[7]: tesla_data = tsla.history(period="max")
tesla_data
```

```
[7]:
```

	Open	High	Low	Close \
Date				

2010-06-29 00:00:00-04:00	1.266667	1.666667	1.169333	1.592667
2010-06-30 00:00:00-04:00	1.719333	2.028000	1.553333	1.588667
2010-07-01 00:00:00-04:00	1.666667	1.728000	1.351333	1.464000
2010-07-02 00:00:00-04:00	1.533333	1.540000	1.247333	1.280000
2010-07-06 00:00:00-04:00	1.333333	1.333333	1.055333	1.074000
...
2025-07-18 00:00:00-04:00	321.660004	330.899994	321.420013	329.649994
2025-07-21 00:00:00-04:00	334.399994	338.000000	326.880005	328.489990
2025-07-22 00:00:00-04:00	329.739990	335.410004	321.549988	332.109985
2025-07-23 00:00:00-04:00	330.899994	336.200012	328.670013	332.559998
2025-07-24 00:00:00-04:00	310.065002	310.065002	300.410004	305.299988

	Volume	Dividends	Stock Splits
Date			
2010-06-29 00:00:00-04:00	281494500	0.0	0.0
2010-06-30 00:00:00-04:00	257806500	0.0	0.0
2010-07-01 00:00:00-04:00	123282000	0.0	0.0
2010-07-02 00:00:00-04:00	77097000	0.0	0.0
2010-07-06 00:00:00-04:00	103003500	0.0	0.0
...
2025-07-18 00:00:00-04:00	94255000	0.0	0.0
2025-07-21 00:00:00-04:00	75768800	0.0	0.0
2025-07-22 00:00:00-04:00	77370400	0.0	0.0
2025-07-23 00:00:00-04:00	92553800	0.0	0.0
2025-07-24 00:00:00-04:00	156024571	0.0	0.0

[3791 rows x 7 columns]

Reset the index using the `reset_index(inplace=True)` function on the `tesla_data` DataFrame and display the first five rows of the `tesla_data` dataframe using the `head` function. Take a screenshot of the results and code from the beginning of Question 1 to the results below.

```
[8]: tesla_data.reset_index(inplace=True)
tesla_data.head(5)
```

```
[8]:
```

	Date	Open	High	Low	Close	\
0	2010-06-29 00:00:00-04:00	1.266667	1.666667	1.169333	1.592667	
1	2010-06-30 00:00:00-04:00	1.719333	2.028000	1.553333	1.588667	
2	2010-07-01 00:00:00-04:00	1.666667	1.728000	1.351333	1.464000	
3	2010-07-02 00:00:00-04:00	1.533333	1.540000	1.247333	1.280000	
4	2010-07-06 00:00:00-04:00	1.333333	1.333333	1.055333	1.074000	

	Volume	Dividends	Stock Splits
0	281494500	0.0	0.0
1	257806500	0.0	0.0
2	123282000	0.0	0.0
3	77097000	0.0	0.0
4	103003500	0.0	0.0

0.3 Question 2: Use Webscraping to Extract Tesla Revenue Data

Use the `requests` library to download the webpage `https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBMDeveloperSkillsNetwork-PY0220EN-SkillsNetwork/labs/project/revenue.htm` Save the text of the response as a variable named `html_data`.

```
[9]: url = "https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/
      ↪IBMDeveloperSkillsNetwork-PY0220EN-SkillsNetwork/labs/project/revenue.htm"
      response = requests.get(url)
      html_content = response.text
```

Parse the html data using `beautiful_soup` using parser i.e `html5lib` or `html.parser`.

```
[10]: soup = BeautifulSoup(html_content, "html.parser")
      soup
```

```
[10]: <!DOCTYPE html>

<!--[if lt IE 7]>      <html class="no-js lt-ie9 lt-ie8 lt-ie7"> <![endif]-->
<!--[if IE 7]>        <html class="no-js lt-ie9 lt-ie8"> <![endif]-->
<!--[if IE 8]>        <html class="no-js lt-ie9"> <![endif]-->
<!--[if gt IE 8]><!--> <html class="no-js"> <!--<![endif]-->
<head>
<meta charset="utf-8"/>
<meta content="IE=edge,chrome=1" http-equiv="X-UA-Compatible"/>
<link href="https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue"
rel="canonical"/>
<title>Tesla Revenue 2010-2022 | TSLA | MacroTrends</title>
<meta content="Tesla annual/quarterly revenue history and growth rate from 2010
to 2022. Revenue can be defined as the amount of money a company receives from
its customers in exchange for the sales of goods or services. Revenue is the
top line item on an income statement from which all costs and expenses are
subtracted to arrive at net income.

      <ul style='margin-top:10px;'>
      <li>Tesla revenue for the quarter ending
September 30, 2022 was <strong>$21.454B</strong>, a
<strong>55.95% increase</strong> year-over-year.</li>
      <li>Tesla revenue for the twelve months
ending September 30, 2022 was <strong>$74.863B</strong>, a
<strong>59.8% increase</strong> year-over-year.</li>
      <li>Tesla annual revenue for 2021 was
<strong>$53.823B</strong>, a <strong>70.67%
increase</strong> from 2020.</li>
      <li>Tesla annual revenue for 2020 was
<strong>$31.536B</strong>, a <strong>28.31%
```

increase from 2019.

Tesla annual revenue for 2019 was
\$24.578B, a 14.52%
increase from 2018.

" name="description">

<meta content="" name="robots">

<link href="/assets/images/icons/FAVICON/macro-trends_favicon.ico" rel="shortcut icon" type="image/x-icon"/>

<meta content="1228954C688F5907894001CD8E5E624B" name="msvalidate.01"/>

<meta content="6MnD_3iDtAP1ZyoGK1YMyVIVck4r5Ws80I9xD3ue4_A" name="google-site-verification"/>

<!-- Load in Roboto Font -->

<link href="https://fonts.googleapis.com/css?family=Roboto:400,600,700" rel="stylesheet"/>

<!-- Bootstrap -->

<link href="//maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css" rel="stylesheet"/> <!--for Bootstrap CDN version-->

<link href="//maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap-theme.min.css" rel="stylesheet"/>

<!-- Font Awesome -->

<link href="//stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css" rel="stylesheet"/> <!--for Font Awesome CDN version-->

<!-- JQuery, Bootstrap and Menu Javascript -->

<script crossorigin="anonymous" integrity="sha256-ZosEbRLbNQzLpnKIkEdrPv7l0y9C27hHQ+Xp8a4MxAQ=" src="//code.jquery.com/jquery-1.12.4.min.js"></script>

<script src="//maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>

<!-- Modernizr for cross-browser support -->

<script src="/assets/javascript/modernizr-2.6.2-respond-1.1.0.min.js" type="text/javascript"></script>

<!-- Latest compiled and minified CSS -->

<link href="//www.fuelcdn.com/fuelux/3.13.0/css/fuelux.min.css" rel="stylesheet"/>

<!-- Latest compiled and minified JavaScript -->

<script src="//www.fuelcdn.com/fuelux/3.13.0/js/fuelux.min.js"></script>

<!-- Twitter Card data -->

<meta content="summary_large_image" name="twitter:card"/>

<meta content="@tmacrorends" name="twitter:site"/>

<meta content="Tesla Revenue 2010-2022 | TSLA" name="twitter:title"/>

<meta content="Tesla annual/quarterly revenue history and growth rate from 2010 to 2022. Revenue can be defined as the amount of money a company receives from its customers in exchange for the sales of goods or services. Revenue is the top line item on an income statement from which all costs and expenses are subtracted to arrive at net income."

<ul style='margin-top:10px;'>

```

        <li>Tesla revenue for the quarter ending
September 30, 2022 was <strong>$21.454B</strong>, a
<strong>55.95% increase</strong> year-over-year.</li>
        <li>Tesla revenue for the twelve months
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        <li>Tesla annual revenue for 2020 was
<strong>$31.536B</strong>, a <strong>28.31%
increase</strong> from 2019.</li>
        <li>Tesla annual revenue for 2019 was
<strong>$24.578B</strong>, a <strong>14.52%
increase</strong> from 2018.</li>
    </ul>" name="twitter:description"/>
<!-- Open Graph data -->
<meta content="https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue"
property="og:url">
<meta content="Tesla Revenue 2010-2022 | TSLA" property="og:title">
<meta content="Tesla annual/quarterly revenue history and growth rate from 2010
to 2022. Revenue can be defined as the amount of money a company receives from
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top line item on an income statement from which all costs and expenses are
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increase</strong> from 2019.</li>
        <li>Tesla annual revenue for 2019 was
<strong>$24.578B</strong>, a <strong>14.52%
increase</strong> from 2018.</li>
    </ul>" property="og:description">
<!-- JQXGRID STYLES AND JAVASCRIPT -->
<link href="/assets/php/jqfiles/jqwidgets/styles/jqx.base.css" rel="stylesheet"
type="text/css">
<link href="/assets/php/jqfiles/jqwidgets/styles/jqx.bootstrap.css"

```



```

rel="stylesheet" type="text/css">
<!-- LOAD THESE SCRIPTS EARLY SO THE TICKER INPUT FIELD IS STYLED INSTANTLY -->
<script src="/assets/php/jqfiles/jqwidgets/jqxc.js"
type="text/javascript"></script>
<script src="/assets/php/jqfiles/jqwidgets/jqxdata.js"
type="text/javascript"></script>
<script src="/assets/php/jqfiles/jqwidgets/jqxinput.js"
type="text/javascript"></script>
<!-- Styling for search box -->
<link href="/assets/php/jquery-typeahead/jquery.typeahead_pages.css"
rel="stylesheet" type="text/css"/>
<!-- Search box javascript -->
<script src="/assets/php/jquery-typeahead/jquery.typeahead.min.js"></script>
<link href="//cdnjs.cloudflare.com/ajax/libs/select2/4.0.3/css/select2.min.css"
rel="stylesheet">
<script
src="//cdnjs.cloudflare.com/ajax/libs/select2/4.0.3/js/select2.min.js"></script>
<!-- ToolTips -->
<script src="/assets/php/tipped-4.6.1/js/tipped/tipped.js"></script>
<link href="/assets/php/tipped-4.6.1/css/tipped/tipped.css" rel="stylesheet"/>
<!-- START IC AD INSERT -->
<script>InvestingChannelQueue = window.InvestingChannelQueue || [];</script>
<script async="" src="https://u5.investingchannel.com/static/uat.js"></script>
<script type="text/javascript">

```

```

//Push Run command with the API-Key, so that UAT will start processing
publishers request.

```

```

    InvestingChannelQueue.push(function() {
        ic_page =
InvestingChannel.UAT.Run("df17ac1e-cc7f-11e8-82a5-0abbb61c4a6a");
    });

```

```

        var tickerValue = 'TSLA';
var oopDivTag;
        var subLeaderboardTag;
        var rightSidebarTag1;
        var rightSidebarTag2;
        var searchButtonTag;
        var partner_center_tag;
        var videoTag;
        var ic_3x7_1;
        //var IC_D_300x250_BCC;
        //var IC_D_3x7_BCC;

```

```

//To define new tags/out of page tags.
InvestingChannelQueue.push(function() {

```

```

        ic_page.setKval({'t': tickerValue});

        //videoTag =
ic_page.defineNativeTag("Macrotrends/fundamentalanalysis", "3x6, 728x90,
Fluid", "IC_D_3x6", 35);

        oopDivTag =
ic_page.defineOutOfPageTag("Macrotrends/fundamentalanalysis", "oopDivTag_1");
        oopDivTag.setKval({"adslot": "IC_OOP_1"});

        LeaderboardTag = ic_page.defineTag("Macrotrends/fundamen
talanalysis", "970x250, 728x90, 970x90, fluid", "IC_D_970x250_1");
        LeaderboardTag.setKval({"adslot": "IC_D_970x250_1"});

        subLeaderboardTag =
ic_page.defineTag("Macrotrends/fundamentalanalysis", "728x90", "ic_728x90_1");
        subLeaderboardTag.setKval({"adslot": "IC_728x90_1"});

        rightSidebarTag1 = ic_page.defineTag("Macrotrends/fundam
entalanalysis", "300x250, Fluid", "ic_300x250_1");
        rightSidebarTag1.setKval({"adslot": "IC_300x250_1"});

        rightSidebarTag2 = ic_page.defineTag("Macrotrends/fundam
entalanalysis", "300x600, 300x250, 160x600, 300x1050, Fluid", "ic_300x600_1");
        rightSidebarTag2.setKval({"adslot": "IC_300x600_1"});

        searchButtonTag =
ic_page.defineTag("Macrotrends/fundamentalanalysis", "88x31", "ic_88x31_1");
        searchButtonTag.setKval({"pc": "pc", "adslot": "IC_88x31"});

        partner_center_tag =
ic_page.defineTag("macrotrends/fundamentalanalysis", "728x214,
728x90", "IC_728x214_1");
        partner_center_tag.setKval({"pc": "pc", "adslot": "d_728x90_2"});

        ic_3x7_1 = ic_page.defineNativeTag("macrotrends/fundamen
talanalysis", "3x7, 728x90, Fluid", "IC_3x7_1", 35);

        //IC_D_300x250_BCC =
ic_page.defineTag(adCategory, "300x250, Fluid", "IC_D_300x250_BCC");
        //IC_D_300x250_BCC.setKval({"adslot": "IC_D_300x250_BCC"});

```

```

        //IC_D_3x7_BCC = ic_page.defineTag(adCategory,"3x7,
Fluid","IC_D_3x7_BCC");
        //IC_D_3x7_BCC.setKval({"adslot":"IC_D_3x7_BCC"});

    });

    //To render tags.
        InvestingChannelQueue.push(function() {
            ic_page.renderTags();
        });

</script>
<!-- END IC AD INSERT -->
<!-- Global site tag (gtag.js) - Google Analytics -->
<script async=""
src="https://www.googletagmanager.com/gtag/js?id=UA-62099500-1"></script>
<script>

        window.dataLayer = window.dataLayer || [];
        function gtag(){dataLayer.push(arguments);}
        gtag('js', new Date());

        gtag('config', 'UA-62099500-1');
    </script>
<!-- Google tag (gtag.js) -->
<script async=""
src="https://www.googletagmanager.com/gtag/js?id=G-3KL0LYERBH"></script>
<script>

        window.dataLayer = window.dataLayer || [];
        function gtag(){dataLayer.push(arguments);}
        gtag('js', new Date());

        gtag('config', 'G-3KL0LYERBH');
    </script>
<!--<script>
(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){
        (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1*new
Date();a=s.createElement(o),
m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBefore(a,m)
        })(window,document,'script','//www.google-
analytics.com/analytics.js','ga');

        ga('create', 'UA-62099500-1', 'auto');
        ga('send', 'pageview');

```

```

rate
//Send one event to GA at 30 seconds to control bounce
setTimeout("ga('send','event','Engaged User','30 Second
Engagement')",30000);

//This code sends events to ga every 30 seconds when the
window is in focus
var count = 0;
var myInterval;

// Active
window.addEventListener('load', startTimer);
window.addEventListener('focus', startTimer);

// Inactive
window.addEventListener('blur', stopTimer);

function timerHandler() {
    count++;

    if(count % 60 == 0 && count <= 1800) {

        var interval = (count/60);
        interval = interval.toFixed(0);

        var action = interval + " Minute
Engagement";

        ga('send','event','Engaged
User',action);

    }

}

// Start timer
function startTimer() {
myInterval = window.setInterval(timerHandler, 1000);
}

// Stop timer
function stopTimer() {
window.clearInterval(myInterval);
}

```

```

</script>-->

<style>

#style-1::-webkit-scrollbar-track
{
    -webkit-box-shadow: inset 0 0 6px rgba(0,0,0,0.3);
    border-radius: 3px;
    background-color: #F5F5F5;
}

#style-1::-webkit-scrollbar
{
    width: 18px;
    background-color: #F5F5F5;
}

#style-1::-webkit-scrollbar-thumb
{
    border-radius: 3px;
    -webkit-box-shadow: inset 0 0 6px rgba(0,0,0,.3);
    background-color: #5B9BD5;
}

html {
    width:100%;
    position: relative;
    min-height: 100%;
}

body {

    width:100%;

    /* Margin bottom by footer height */
    margin-bottom: 80px;
    color: #444;
    background-color:#fff;
    font-family: 'Roboto', sans-serif;
    font-size:14px;
}

```

```

.header_content_container {

    min-width: 1280px;
    padding: 0px;
}

.main_content_container {

    min-width: 1280px;
    max-width: 1280px;
    padding: 0px 30px 100px 30px;

}

.sub_main_content_container {

}

#main_content {

    padding:0px 20px 0px 0px;
    width:826px;
    float:left;

}

#right_sidebar {

    width: 300px;
    float:left;
    height:3200px;

}

#sticky_ad_left {

    position: -webkit-sticky;
    position: sticky;
    top: 30px;

}

```

```

#sticky_ad_right {

    position: -webkit-sticky;
    position: sticky;
    top: 30px;

}


.footer {
    position: absolute;
    bottom: 0;
    width: 100%;
    /* Set the fixed height of the footer here */
    height: 100px;
    margin-top: 10px;
    padding: 30px 20px 20px 20px;
    color:#fff !important;
    background-color:#444;
    text-align: center;
    font-size:16px;
}

.footer a {
    color:#fff !important;
}

.ticker_search_box {

    background-color:#F5F5F5;
    border: 1px solid #E0E0E0;
    border-bottom:none;
    padding:10px 30px 10px 10px;
    margin:0px 0px 0px 0px;
    text-align:center;

}

.related_tickers {

    width:100%;
    background-color:#F5F5F5;
    border: 1px solid #E0E0E0;

```

```

        border-top: 0px;
        padding:3px 30px 3px 10px;
        margin:0px 0px 0px 0px;
        text-align:center;
    }

    .statement_type_select {

        width:100%;
        height:28px;

    }

    .frequency_select {

        width:100%;
        height:28px;
        font-weight:600;

    }

    .select2 {

        text-align:left;
        font-weight:600;

    }

    #jqxInput {

        width:100%;
        height:28px;

    }

    .header__parent_container {

        width:100%;
        height:50px;
        padding:15px 0px 10px -20px;
        margin:0px 0px 0px 0px;
        background-color:#444;
    }

```



```

}

.header_container {

    width:100%;
    height:50px;
    padding:15px 0px 10px -20px;
    margin:0px 0px 0px 0px;
    background-color:#444;

}

.header_logo {

    padding-top:10px;
    margin-left:50px;

}

.menu_parent_container {

    width:100%;
    height:34px;
    font-size:16px;
    padding:15px 0px 10px -20px;
    margin:0px 0px 0px 0px;
    background-color:#0089de;

}

.menu_container {

    width:1280px;
    height:34px;
    font-size:16px;
    padding:11px 0px 0px -20px;
    margin: 0 auto;
    background-color:#0089de;
    z-index:1000;

}

.menu_item {

    height:34px;
    float:left;
    font-size:14px;
    font-weight:bold;
    color:#fff;

```

```

        text-align:center;
        padding:7px 16px 0px 16px;
    }

    .menu_item:hover
    {
        background-color:#32a0e4;
        cursor: pointer;
    }

    .menu_item a
    {
        color:#fff;
        cursor: pointer;
    }

    .menu_item a:hover
    {
        text-decoration:none;
        cursor: pointer;
    }

    .leaderboard_ad {

        margin-top:20px;
        margin-bottom:20px;
        text-align:center;
        min-height:100px;

    }

    #filter_result_count {

        width:100%;
        text-align:center;
        font-size:24px;
        font-weight:bold;
        padding:10px 15px;
        background-color:#efefef;
        border: 1px solid #dfdfdf;
        margin:20px;

    }

    select {

```

```

    color: #444;
    background-color: #FFF;
    border: 1px solid #AAA;
    border-radius: 4px;
    box-sizing: border-box;
    cursor: pointer;
    display: block;
    height:40px;
    line-height: 40px;
}

.historical_data_table {
    table-layout: fixed;
    margin:20px;
}

.historical_data_table tbody tr td {

    padding:6px;
    vertical-align: middle !important;
}

.descriptors {

    text-align:center;
    font-size:14px;
    padding:15px;
}

.td_metric_name {

    width:110px;
    padding-top:17px;
}

.metric_link {

    font-size:14px;
    font-weight:bold;
}

.help_icon {

```

```

        width:15px;
        height:18px;
        padding-bottom:3px;
    }

    .td_min_value {

        width:75px;
        text-align:center;
        font-size:13px;
    }

    .td_max_value {

        width:75px;
        text-align:center;
        font-size:13px;
    }

    #myCombobox .form-control {

        background-color: #99d5ff;
    }

    .dropdown-toggle {

        height:24px;
        padding-top:0px;
        padding-left:7px;
        width:24px;
    }

    .dropdown-menu-right {

        min-width:75px;
        font-size:13px;
    }

    .form-control {

```

```

        font-size:12px;
        padding:5px 10px;
        height:24px;

    }

    #myPills1 {

        margin:0px 15px 10px 0px;

    }

    #jqxgrid {

        border-radius:0px;

    }

    .jqx-widget-header {

        font-family: 'Roboto', sans-serif;
        font-size:13px;

    }

    .jqx-item {

        font-family: 'Roboto', sans-serif;
        font-size: 13px;

    }

    .jqx-widget-content {

        border-color: #E0E0E0;

    }

    #jqxgrid .jqx-grid-cell {

        border-color: #E0E0E0;

    }

    #jqxgrid .jqx-grid-cell-pinned {

```

```

        border-color: #E0E0E0;
        background-color: #F5F5F5;
    }

    #jqxgrid .jqx-grid-column-header {

        border-color: #E0E0E0;
        background-color: #F5F5F5;
    }

    .clear_zero {

        height:0px;
    }

    /* Styles for Popup Charts */

    .tpd-size-large {

        margin:0px;
        padding: 0px;
    }

    .popup_window_wrapper {

        margin:15px;
    }

    .popup_stock_name {

        font-size:16px;
        font-weight:bold;
        margin:5px;
    }

    .popup_stock_attributes {

        font-size:13px;
        font-weight:bold;

```

```

        margin:5px;
    }

    .popup_stock_description {

        font-size:12px;
        margin:5px;

    }

    .jqx-input {

        font-size:14px;

    }

    .jqx-menu-item {

        font-size:14px;

    }

    .jqx-input {

        padding:5px 10px;

    }

    .nav-tabs {
        border: 1px solid #E0E0E0;
        background-color:#F5F5F5;
        padding: 3px 5px 0px 5px;
        margin: 0px 0px 10px 0px;
    }

    .nav-tabs>li>a {
        font-size:13px;
        padding:7px 11px;
        font-weight:600;
        margin-right: 0px;
        line-height: 1.42857143;
        border: 0px;
        border-radius: 0px 0px 0 0;
        background-color:#F5F5F5;

    }

```

```

.nav-tabs>li>a .active {
    margin-right: 0px;
    line-height: 1.42857143;
    border: 1px solid #E0E0E0;
    border-radius: 0px 0px 0 0;
    background-color:#F5F5F5;
}

.nav-tabs>li>a:hover {
    background-color: #F5F5F5;
    text-decoration: underline;
}

.donate_buttons {

    margin-left:20px;

}

.modal-body {

    margin:10px 40px 20px 40px;
    text-align:left;
    font-size:18px;
}

.modal-body li {

    margin-top:20px;
    font-size:14px;
}

.modal_title {

    text-align:center;
    margin-bottom:30px;
}

.modal-body th{

```



```

        margin-left:10px;
        font-size:14px;
    }

```

```

.modal-body td {

    color: #337ab7;
    margin-left:10px;
    font-size:14px;
}

```

```

.modal_button {

    margin-top:50px;
    text-align:center;
    font-size:16px;

}

```

```

</style>
</link></link></link></meta></meta></meta></meta></meta></head>
<body class="fuelux">
<!--[if lt IE 7]>
    <p class="browsehappy">You are using an <strong>outdated</strong>
browser. Please <a href="https://browsehappy.com/">upgrade your browser</a> to
improve your experience.</p>
    <![endif]-->
<div class="header_content_container container-fluid">
<div class="header_parent_container">
<div class="header_container">
<div class="header_logo col-xs-2">
<a class="logo" href="https://www.macrotrends.net" title="MacroTrends Home
Page"></a>
</div>
<div class="col-xs-1 pull-right" style="padding-top:8px; margin-right:10px;
margin-left:0px; padding-left:0px;">
<div id="ic_88x31_1">
</div>
</div>
<div class="col-xs-5 pull-right" style="padding-top:8px;">
<form>
<div class="typeahead__container">
<div class="typeahead__field">
<span class="typeahead__query">
<input autocomplete="off" autofocus="" class="js-typeahead" name="q"

```

```

placeholder="Search over 200,000 charts..." type="search"/>
</span>
<span class="typeahead__button">
<button type="submit">
<span class="typeahead__search-icon"></span>
</button>
</span>
</div>
</div>
</form>
</div>
</div>
</div>
<div class="menu_parent_container">
<div class="menu_container">
<a href="/stocks/stock-screener"><div class="menu_item">Stock Screener</div></a>
<a href="/stocks/research"><div class="menu_item">Stock Research</div></a>
<a href="/charts/stock-indexes"><div class="menu_item">Market Indexes</div></a>
<a href="/charts/precious-metals"><div class="menu_item">Precious
Metals</div></a>
<a href="/charts/energy"><div class="menu_item">Energy</div></a>
<a href="/charts/commodities"><div class="menu_item">Commodities</div></a>
<a href="/charts/exchange-rates"><div class="menu_item">Exchange Rates</div></a>
<a href="/charts/interest-rates"><div class="menu_item">Interest Rates</div></a>
<a href="/charts/economy"><div class="menu_item">Economy</div></a>
<a href="/countries/topic-overview"><div class="menu_item">Global
Metrics</div></a>
</div>
</div>
</div>
<div class="main_content_container container-fluid" id="main_content_container">
<div class="adx_top_ad col-xs-12" id="ic_leaderboard" style="margin: 20px 20px
30px 20px; min-height:265px; text-align:center;">
<div id="IC_D_970x250_1"></div>
<!--Smartad # 4058: Macrotrends - 970x250 Image - Placement 2-->
<!--<iframe id="dianomi_leaderboard" WIDTH="970" HEIGHT="250" SCROLLING="NO"
src="//www.dianomi.com/smartads.epl?id=4058" style="height: 250px; border:
none; overflow: hidden;"></iframe>-->
</div>
<div style="margin:20px 20px 20px 5px;">
<h2 style="margin-left:0px; font-weight:600; color:#444;">Tesla Revenue
2010-2022 | TSLA</h2>
</div>
<div class="sub_main_content_container">
<div id="main_content">
<div class="navigation_tabs" style="margin-bottom:20px;">
<ul class="nav nav-tabs" id="myTabs" style="font-size:15px;">

```

```

<li><a href="https://www.macrotrends.net/stocks/charts/TSLA/tesla/stock-price-history">Prices</a></li>
<li><a href="https://www.macrotrends.net/stocks/charts/TSLA/tesla/financial-statements">Financials</a></li>
<li class="active"><a href="https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue">Revenue & Profit</a></li>
<li><a href="https://www.macrotrends.net/stocks/charts/TSLA/tesla/total-assets">Assets & Liabilities</a></li>
<li><a href="https://www.macrotrends.net/stocks/charts/TSLA/tesla/profit-margins">Margins</a></li>
<li><a href="https://www.macrotrends.net/stocks/charts/TSLA/tesla/pe-ratio">Price Ratios</a></li>
<li><a href="https://www.macrotrends.net/stocks/charts/TSLA/tesla/current-ratio">Other Ratios</a></li>
<li><a href="https://www.macrotrends.net/stocks/charts/TSLA/tesla/dividend-yield-history">Other Metrics</a></li>
</ul>
<ul class="nav nav-tabs" id="myTabs" style="font-size:15px;">
<li class="active"><a href="https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue">Revenue</a></li>
<li><a href="https://www.macrotrends.net/stocks/charts/TSLA/tesla/gross-profit">Gross Profit</a></li>
<li><a href="https://www.macrotrends.net/stocks/charts/TSLA/tesla/operating-income">Operating Income</a></li>
<li><a href="https://www.macrotrends.net/stocks/charts/TSLA/tesla/ebitda">EBITDA</a></li>
<li><a href="https://www.macrotrends.net/stocks/charts/TSLA/tesla/net-income">Net Income</a></li>
<li><a href="https://www.macrotrends.net/stocks/charts/TSLA/tesla/eps-earnings-per-share-diluted">EPS</a></li>
<li><a href="https://www.macrotrends.net/stocks/charts/TSLA/tesla/shares-outstanding">Shares Outstanding</a></li>
</ul>
</div>
<div style="background-color:#fff; margin: 0px 0px 20px 0px; padding:20px 30px; border:1px solid #dfdfdf;">
<span style="color:#444; line-height: 1.8;">Tesla annual/quarterly revenue history and growth rate from 2010 to 2022. Revenue can be defined as the amount of money a company receives from its customers in exchange for the sales of goods or services. Revenue is the top line item on an income statement from which all costs and expenses are subtracted to arrive at net income.

<ul style="margin-top:10px;">
<li>Tesla revenue for the quarter ending September 30, 2022 was
<strong>$21.454B</strong>, a <strong>55.95% increase</strong> year-over-year.</li>

```

```

<li>Tesla revenue for the twelve months ending September 30, 2022 was
<strong>$74.863B</strong>, a <strong>59.8% increase</strong> year-over-
year.</li>
<li>Tesla annual revenue for 2021 was <strong>$53.823B</strong>, a
<strong>70.67% increase</strong> from 2020.</li>
<li>Tesla annual revenue for 2020 was <strong>$31.536B</strong>, a
<strong>28.31% increase</strong> from 2019.</li>
<li>Tesla annual revenue for 2019 was <strong>$24.578B</strong>, a
<strong>14.52% increase</strong> from 2018.</li>
</ul></span>
</div>
<div style="background-color:#fff; margin: 30px 0px 30px 0px; text-align:center;
min-height:90px;">
<div id="ic_728x90_1" style="margin:10px 20px;">
</div>
</div>
<div class="ticker_search_box" style="text-align:center;">
<div style="width:400px; margin-left:20px; border-bottom:none;">
<script type="text/javascript">
    $(document).ready(function () {

                                var url =

"https://www.macrotrends.net/assets/php/ticker_search_list.php";

        // prepare the data
        var source =
        {
            datatype: "json",
            datafields: [
                { name: 'n' },
                                { name: 's' }
            ],
            url: url
        };
        var dataAdapter = new $.jqx.dataAdapter(source);
        // Create a jqxInput
        $("#jqxInput").jqxInput({ source: dataAdapter, minLength: 1,
placeholder: "Search for ticker or company name...", items: 20, searchMode:
'containsignorecase', displayMember: "n", valueMember: "s", width: '100%',
height: 22, theme: 'bootstrap'});
        $("#jqxInput").on('select', function (event) {
            if (event.args) {
                var item = event.args.item;

                                //Have to split the ticker and
slug back out since jqxinput only seems to allow one data value
                                var itemArray =

```

```

item.value.split("\");

                                var ticker = itemArray[0];
                                var slug = itemArray[1];

                                if (item) {

                                window.location

= "https://www.macrotrends.net/stocks/charts/" + ticker + "/" + slug +
"/revenue";

}

    }
    });
    });
</script>
<input autocomplete="off" id="jqxInput">
</input></div>
<div style="width:280px; margin-top: -32px; margin-left:80px; border-
bottom:none; float:right;">
<button class="chart_buttons btn btn-success btn-sm" id="compareStocks"
style="margin-right:15px;"><span class="glyphicon glyphicon-
stats"></span> <strong>Compare TSLA With Other Stocks</strong></button>

</div>
</div>
<div style="height:690px; background-color:#fff; border:1px solid #dfdfdf;">
<iframe frameborder="0" height="680" hspace="0" id="chart_iframe" margin="0px"
marginheight="0" marginwidth="0" scrolling="NO" src="https://www.macrotrends.net
/assets/php/fundamental_iframe.php?t=TSLA&type=revenue&statement=income-
statement&freq=Q" title="Interactive chart: Tesla Revenue 2010-2022 | TSLA"
valign="middle" vspace="0" width="800"></iframe>
</div>
<div id="ic_video_ad" style="height:317px; margin:30px;">
<div id="IC_D_3x6"></div>
</div>
<div style="background-color:#fff; margin: 30px 0px; padding:10px 30px;
border:1px solid #dfdfdf;">
<iframe frameborder="0" height="300" hspace="0" id="dianomi_below_chart"
marginheight="0" marginwidth="0" scrolling="NO"
src="//www.dianomi.com/smartads.epl?id=4057" valign="middle" vspace="0"
width="100%"></iframe>
<!--<div id="IC_D_3x7_BCC"></div>-->
</div>
<div id="style-1" style="background-color:#fff; height:510px; overflow:auto;
margin: 30px 0px 30px 0px; padding:0px 30px 20px 0px; border:1px solid
#dfdfdf;">
<div class="col-xs-6">

```

```

<table class="historical_data_table table">
<thead>
<tr>
<th colspan="2" style="text-align:center">Tesla Annual Revenue<br/><span
style="font-size:14px;">(Millions of US $)</span></th>
</tr>
</thead>
<tbody>
<tr>
<td style="text-align:center">2021</td>
<td style="text-align:center">$53,823</td>
</tr>
<tr>
<td style="text-align:center">2020</td>
<td style="text-align:center">$31,536</td>
</tr>
<tr>
<td style="text-align:center">2019</td>
<td style="text-align:center">$24,578</td>
</tr>
<tr>
<td style="text-align:center">2018</td>
<td style="text-align:center">$21,461</td>
</tr>
<tr>
<td style="text-align:center">2017</td>
<td style="text-align:center">$11,759</td>
</tr>
<tr>
<td style="text-align:center">2016</td>
<td style="text-align:center">$7,000</td>
</tr>
<tr>
<td style="text-align:center">2015</td>
<td style="text-align:center">$4,046</td>
</tr>
<tr>
<td style="text-align:center">2014</td>
<td style="text-align:center">$3,198</td>
</tr>
<tr>
<td style="text-align:center">2013</td>
<td style="text-align:center">$2,013</td>
</tr>
<tr>
<td style="text-align:center">2012</td>
<td style="text-align:center">$413</td>

```

```

</tr>
<tr>
<td style="text-align:center">2011</td>
<td style="text-align:center">$204</td>
</tr>
<tr>
<td style="text-align:center">2010</td>
<td style="text-align:center">$117</td>
</tr>
<tr>
<td style="text-align:center">2009</td>
<td style="text-align:center">$112</td>
</tr>
</tbody>
</table>
</div>
<div class="col-xs-6">
<table class="historical_data_table table">
<thead>
<tr>
<th colspan="2" style="text-align:center">Tesla Quarterly Revenue<br/><span
style="font-size:14px;">(Millions of US $)</span></th>
</tr>
</thead>
<tbody>
<tr>
<td style="text-align:center">2022-09-30</td>
<td style="text-align:center">$21,454</td>
</tr>
<tr>
<td style="text-align:center">2022-06-30</td>
<td style="text-align:center">$16,934</td>
</tr>
<tr>
<td style="text-align:center">2022-03-31</td>
<td style="text-align:center">$18,756</td>
</tr>
<tr>
<td style="text-align:center">2021-12-31</td>
<td style="text-align:center">$17,719</td>
</tr>
<tr>
<td style="text-align:center">2021-09-30</td>
<td style="text-align:center">$13,757</td>
</tr>
<tr>
<td style="text-align:center">2021-06-30</td>

```

\$11,958
2021-03-31
\$10,389
2020-12-31
\$10,744
2020-09-30
\$8,771
2020-06-30
\$6,036
2020-03-31
\$5,985
2019-12-31
\$7,384
2019-09-30
\$6,303
2019-06-30
\$6,350
2019-03-31
\$4,541
2018-12-31
\$7,226
2018-09-30
\$6,824

2018-06-30	\$4,002
2018-03-31	\$3,409
2017-12-31	\$3,288
2017-09-30	\$2,985
2017-06-30	\$2,790
2017-03-31	\$2,696
2016-12-31	\$2,285
2016-09-30	\$2,298
2016-06-30	\$1,270
2016-03-31	\$1,147
2015-12-31	\$1,214
2015-09-30	\$937

```

<tr>
<td style="text-align:center">2015-06-30</td>
<td style="text-align:center">$955</td>
</tr>
<tr>
<td style="text-align:center">2015-03-31</td>
<td style="text-align:center">$940</td>
</tr>
<tr>
<td style="text-align:center">2014-12-31</td>
<td style="text-align:center">$957</td>
</tr>
<tr>
<td style="text-align:center">2014-09-30</td>
<td style="text-align:center">$852</td>
</tr>
<tr>
<td style="text-align:center">2014-06-30</td>
<td style="text-align:center">$769</td>
</tr>
<tr>
<td style="text-align:center">2014-03-31</td>
<td style="text-align:center">$621</td>
</tr>
<tr>
<td style="text-align:center">2013-12-31</td>
<td style="text-align:center">$615</td>
</tr>
<tr>
<td style="text-align:center">2013-09-30</td>
<td style="text-align:center">$431</td>
</tr>
<tr>
<td style="text-align:center">2013-06-30</td>
<td style="text-align:center">$405</td>
</tr>
<tr>
<td style="text-align:center">2013-03-31</td>
<td style="text-align:center">$562</td>
</tr>
<tr>
<td style="text-align:center">2012-12-31</td>
<td style="text-align:center">$306</td>
</tr>
<tr>
<td style="text-align:center">2012-09-30</td>
<td style="text-align:center">$50</td>

```

```

</tr>
<tr>
<td style="text-align:center">2012-06-30</td>
<td style="text-align:center">$27</td>
</tr>
<tr>
<td style="text-align:center">2012-03-31</td>
<td style="text-align:center">$30</td>
</tr>
<tr>
<td style="text-align:center">2011-12-31</td>
<td style="text-align:center">$39</td>
</tr>
<tr>
<td style="text-align:center">2011-09-30</td>
<td style="text-align:center">$58</td>
</tr>
<tr>
<td style="text-align:center">2011-06-30</td>
<td style="text-align:center">$58</td>
</tr>
<tr>
<td style="text-align:center">2011-03-31</td>
<td style="text-align:center">$49</td>
</tr>
<tr>
<td style="text-align:center">2010-12-31</td>
<td style="text-align:center">$36</td>
</tr>
<tr>
<td style="text-align:center">2010-09-30</td>
<td style="text-align:center">$31</td>
</tr>
<tr>
<td style="text-align:center">2010-06-30</td>
<td style="text-align:center">$28</td>
</tr>
<tr>
<td style="text-align:center">2010-03-31</td>
<td style="text-align:center">$21</td>
</tr>
<tr>
<td style="text-align:center">2009-12-31</td>
<td style="text-align:center"></td>
</tr>
<tr>
<td style="text-align:center">2009-09-30</td>

```

```

<td style="text-align:center">$46</td>
</tr>
<tr>
<td style="text-align:center">2009-06-30</td>
<td style="text-align:center">$27</td>
</tr>
</tbody>
</table>
</div>
</div>
<div style="background-color:#fff; margin: 0px 0px 20px 0px; padding:5px 50px
5px 10px; border:1px solid #dfdfdf;">
<table class="historical_data_table table">
<thead>
<tr>
<th style="text-align:center">Sector</th>
<th style="text-align:center">Industry</th>
<th style="text-align:center">Market Cap</th>
<th style="text-align:center">Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td style="text-align:center"><a
href="https://www.macrotrends.net/stocks/sector/5/auto-tires-
trucks">Auto/Tires/Trucks</a></td>
<td style="text-align:center"><a
href="https://www.macrotrends.net/stocks/industry/7/">Auto Manufacturers -
Domestic</a></td>
<td style="text-align:center">$549.575B</td>
<td style="text-align:center">$53.823B</td>
</tr>
<tr>
<td colspan="4" style="padding:15px;">
<span>Tesla is the market leader in battery-powered electric car sales in the
United States, with roughly 70% market share. The company's flagship Model 3 is
the best-selling EV model in the United States. Tesla, which has managed to
garner the reputation of a gold standard over the years, is now a far bigger
entity that what it started off since its IPO in 2010, with its market cap
crossing $1 trillion for the first time in October 2021.? The EV king's market
capitalization is more than the combined value of legacy automakers including
Toyota, Volkswagen, Daimler, General Motors and Ford.Over the years, Tesla has
shifted from developing niche products for affluent buyers to making more
affordable EVs for the masses. The firm's three-pronged business model approach
of direct sales, servicing, and charging its EVs sets it apart from other
carmakers. Tesla, which is touted as the clean energy revolutionary automaker,
is much more than just a car manufacturer.</span>

```

```

</td>
</tr>
</tbody>
</table>
</div>
<div style="background-color:#fff; margin: 20px 0px 30px 0px; padding:5px 50px
5px 10px; border:1px solid #dfdfdf;">
<table class="historical_data_table table">
<thead>
<tr>
<th style="text-align:center; width:40%;">Stock Name</th>
<th style="text-align:center; width:20%;">Country</th>
<th style="text-align:center; width:20%;">Market Cap</th>
<th style="text-align:center; width:20%;">PE Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td style="text-align:left"><a href="/stocks/charts/GM/general-
motors/revenue">General Motors (GM)</a></td>
<td style="text-align:center">United States</td>
<td style="text-align:center">$53.930B</td>
<td style="text-align:center">5.56</td>
</tr>
<tr>
<td style="text-align:left"><a href="/stocks/charts/F/ford-motor/revenue">Ford
Motor (F)</a></td>
<td style="text-align:center">United States</td>
<td style="text-align:center">$52.668B</td>
<td style="text-align:center">8.09</td>
</tr>
<tr>
<td style="text-align:left"><a href="/stocks/charts/HOG/harley-
davidson/revenue">Harley-Davidson (HOG)</a></td>
<td style="text-align:center">United States</td>
<td style="text-align:center">$6.762B</td>
<td style="text-align:center">9.56</td>
</tr>
<tr>
<td style="text-align:left"><a href="/stocks/charts/PII/polaris/revenue">Polaris
(PII)</a></td>
<td style="text-align:center">United States</td>
<td style="text-align:center">$6.267B</td>
<td style="text-align:center">11.86</td>
</tr>
<tr>
<td style="text-align:left"><a href="/stocks/charts/IAA/iaa/revenue">IAA

```

```

(IAA)</a></td>
<td style="text-align:center">United States</td>
<td style="text-align:center">$5.134B</td>
<td style="text-align:center">16.40</td>
</tr>
<tr>
<td style="text-align:left"><a href="/stocks/charts/FSR/fisker/revenue">Fisker
(FSR)</a></td>
<td style="text-align:center">United States</td>
<td style="text-align:center">$2.261B</td>
<td style="text-align:center">0.00</td>
</tr>
<tr>
<td style="text-align:left"><a href="/stocks/charts/LEV/lion-
electric/revenue">Lion Electric (LEV)</a></td>
<td style="text-align:center">Canada</td>
<td style="text-align:center">$0.551B</td>
<td style="text-align:center">0.00</td>
</tr>
<tr>
<td style="text-align:left"><a href="/stocks/charts/VLTA/volta/revenue">Volta
(VLTA)</a></td>
<td style="text-align:center">United States</td>
<td style="text-align:center">$0.071B</td>
<td style="text-align:center">0.00</td>
</tr>
<tr>
<td style="text-align:left"><a href="/stocks/charts/BRDS/bird-
global/revenue">Bird Global (BRDS)</a></td>
<td style="text-align:center">United States</td>
<td style="text-align:center">$0.054B</td>
<td style="text-align:center">0.00</td>
</tr>
<tr>
<td style="text-align:left"><a href="/stocks/charts/ZEV/lightning-
emotors/revenue">Lightning EMotors (ZEV)</a></td>
<td style="text-align:center">United States</td>
<td style="text-align:center">$0.043B</td>
<td style="text-align:center">0.00</td>
</tr>
</tbody>
</table>
</div>
<div>
<!-- Partner Center Ad Unit -->
<div id="IC_728x214_1" style="width:728px; height:214px; margin-left:30px;">
</div>

```

```

</div>
</div>
<div "" id="right_sidebar">
<!--<a href="/stocks/stock-screener" style="text-decoration:none; color: #fff;
">
                                <div style="margin:0px; padding: 20px;
width:300px; background-color: #01579b; min-height:150px; text-align:center;">

                                <h2 style="font-weight:600;">Try
our new<br />stock screener!</h2></a>

                                </div>
                                </a-->
<!--<div style="margin-top:0px; min-height:250px;">

                                <script src="//ads.investingchannel.com/
adtags/MacroTrends/fundamentalanalysis/300x600.js?zhpos=300_2&multi_size=false'
type='text/javascript' charset='utf-8'></script>

                                </div-->
<div style="margin-top:0px; min-height:250px;">
<div id="ic_300x250_1">
</div>
</div>
<div id="sticky_ad_right" style="margin-top:30px; height:1000px;">
<script id="dianomi_context_script"
src="https://www.dianomi.com/js/contextfeed.js" type="text/javascript"></script>
<div class="dianomi_context" data-dianomi-context-id="743"></div>
<!-- <div id="IC_D_300x250_BCC"></div-->
<!--Smartad # 2981: MacroTrends - 300x670 Right Rail-->
<iframe height="670" id="dianomi_sidebar" scrolling="NO"
src="//www.dianomi.com/smartads/epl?id=4059" style="width: 300px; border: none;
overflow: hidden;" width="300"></iframe>
<div id="IC_D_300x250_BCC"></div>
</div>
</div>
</div>
</div>
<!--This is the div for the IC OOP ad-->
<div id="oopDivTag_1" style="width:1px;height:1px;"></div>
<footer class="footer">
<span>© 2010-2022 MacroTrends LLC</span> |
                                <a href="/terms">Terms of Service</a>
                                |
                                <a href="/privacy">Privacy Policy</a> |
                                <a href="mailto:%69n%66o@%6Dac%72otrends%2En%65t">Contact
Us</a> |

```

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        <a href="/ccpa">Do Not Sell My Personal Information</a>
<br/>
<span>Fundamental data from </span><a href="https://www.zacksdata.com"
rel="nofollow" target="_blank">Zacks Investment Research, Inc.</a>
</footer>
<div aria-hidden="true" aria-labelledby="exampleModalLabel" class="modal"
id="smallWidthModal1" role="dialog" tabindex="-1">
<div class="modal-dialog modal-lg">
<div class="modal-content">
<div class="modal-body">
<div class="modal_title"><h2><strong>We Need Your Support!</strong></h2></div>
<p>Backlinks from other websites are the lifeblood of our site and a primary
source of new traffic.<p>
<p>If you use our chart images on your site or blog, we ask that you provide
attribution via a "dofollow" link back to this page. We have provided a few
examples below that you can copy and paste to your site:</p>
<br/>
<table class="table">
<thead>
<tr>
<th>Link Preview</th>
<th>HTML Code (Click to Copy)</th>
</tr>
</thead>
<tbody>
<tr>
<td><a>Tesla Revenue 2010-2022 | TSLA</a></td>
<td><input class="modal_link" size="60" type="text" value="&lt;a
href='https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue'&gt;Tesla
Revenue 2010-2022 | TSLA&lt;/a&gt;" /></td>
</tr>
<tr>
<td><a>Macrotrends</a></td>
<td><input class="modal_link" size="60" type="text" value="&lt;a href='https://w
ww.macrotrends.net/stocks/charts/TSLA/tesla/revenue'&gt;Macrotrends&lt;/a&gt;" />
</td>
</tr>
<tr>
<td><a>Source</a></td>
<td><input class="modal_link" size="60" type="text" value="&lt;a href='https://w
ww.macrotrends.net/stocks/charts/TSLA/tesla/revenue'&gt;Source&lt;/a&gt;" /></td>
</tr>
</tbody>
</table>
<br/>
<p style="text-align:center">Your image export is now complete. Please check
your download folder. </p>

```



```

</p></p></div>
<div class="modal-footer">
<button class="btn btn-primary" data-dismiss="modal" type="button">Close
Window</button>
</div>
</div>
</div>
</div>
<div aria-hidden="true" aria-labelledby="exampleModalLabel" class="modal"
id="smallWidthModal2" role="dialog" tabindex="-1">
<div class="modal-dialog modal-lg">
<div class="modal-content">
<div class="modal-body">
<div class="modal_title"><h2><strong>We Need Your Support!</strong></h2></div>
<p>Backlinks from other websites are the lifeblood of our site and a primary
source of new traffic.<p>
<p>If you use our datasets on your site or blog, we ask that you provide
attribution via a "dofollow" link back to this page. We have provided a few
examples below that you can copy and paste to your site:</p>
<br/>
<table class="table">
<thead>
<tr>
<th>Link Preview</th>
<th>HTML Code (Click to Copy)</th>
</tr>
</thead>
<tbody>
<tr>
<td><a>Tesla Revenue 2010-2022 | TSLA</a></td>
<td><input class="modal_link" size="50" type="text" value="&lt;a
href='https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue'&gt;Tesla
Revenue 2010-2022 | TSLA&lt;/a&gt;"/></td>
</tr>
<tr>
<td><a>Macrotrends</a></td>
<td><input class="modal_link" size="50" type="text" value="&lt;a href='https://w
ww.macrotrends.net/stocks/charts/TSLA/tesla/revenue'&gt;Macrotrends&lt;/a&gt;"/>
</td>
</tr>
<tr>
<td><a>Source</a></td>
<td><input class="modal_link" size="50" type="text" value="&lt;a href='https://w
ww.macrotrends.net/stocks/charts/TSLA/tesla/revenue'&gt;Source&lt;/a&gt;"/></td>
</tr>
</tbody>
</table>

```

```

<br/>
<p style="text-align:center">Your data export is now complete. Please check
your download folder. </p>
</p></p></div>
<div class="modal-footer">
<button class="btn btn-primary" data-dismiss="modal" type="button">Close
Window</button>
</div>
</div>
</div>
</div>
<script type="text/javascript">
$.typeahead({
    input: '.js-typeahead',
    minLength: 1,
    filter: false, //Disables typeahead filter to just show
everything in the results from the database
    debug: false,
    highlight: true,
    maxItem: 10,
    dynamic: true,
    delay: 200,
    searchOnFocus: true,
    backdrop: {
        "background-color": "#fff"
    },
    href: "{{url}}",
    emptyTemplate: "no result for {{query}}",
    display: ["name"],
    source: {
        users: {
            ajax: {
                url: '/assets/php/all_pages_query.php',
                data: {
                    q: '{{query}}'
                }
            }
        }
    }
});
</script>
<script>

    // /*! js-cookie v3.0.0-rc.1 | MIT */
    // !function(e,t){"object"==typeof exports&&"undefined"!=typeof
module?module.exports=t():"function"==typeof
define&&define.amd?define(t):(e=e||self,function(){var

```

```

n=e.Cookies,r=e.Cookies=t();r.noConflict=function(){return
e.Cookies=n,r}}(this,function(){"use strict";function e(e){for(var
t=1;t<arguments.length;t++){var n=arguments[t];for(var r in n)e[r]=n[r]}return
e}var t={read:function(e){return
e.replace(/(%[\dA-F]{2})+/gi,decodeURIComponent)},write:function(e){return encod
eURIComponent(e).replace(/%(2[346BF]|3[AC-
F]|40|5[BDE]|60|7[BCD])/g,decodeURIComponent)}};return function n(r,o){function
i(t,n,i){if("undefined"!==typeof
document){if("number"===typeof(i=e({},o,i)).expires&&(i.expires=new Date(Date.now()+
864e5*i.expires)),i.expires&&(i.expires=i.expires.toUTCString()),t=encodeURIComponent(t).replace(/%(2[346B]|5E|60|7C)/g,decodeURIComponent).replace(/[\(\)]/g,escape),n=r.write(n,t);var c="";for(var u in i)i[u]&&(c+="
"+u,!0!==i[u]&&(c+="="+i[u].split(";")[0]));return
document.cookie=t+"="+n+c}}return
Object.create({set:i,get:function(e){if("undefined"!==typeof
document&&(!arguments.length||e)){for(var
n=document.cookie?document.cookie.split("; "):[],o={},i=0;i<n.length;i++){var
c=n[i].split("="),u=c.slice(1).join("=");'"'===u[0]&&(u=u.slice(1,-1));try{var
f=t.read(c[0]);if(o[f]=r.read(u,f),e===f)break}catch(e){}}return e?o[e]:o}},remo
ve:function(t,n){i(t,"",e({},n,{expires:-1})),withAttributes:function(t){return
n(this.converter,e({},this.attributes,t)),withConverter:function(t){return n(e(
{}),this.converter,t),this.attributes)}},{attributes:{value:Object.freeze(o)},con
verter:{value:Object.freeze(r)}})}(t,{path:"/"}));

```

```

// // Cookie Settings
// var maxCookieValue = 4, initCookie = 1, expirationDays = 1;
// var cookieName = "session_pageviews";
// var getCookie = Cookies.get(cookieName);

// // Under the Hood
// if (getCookie == null) {
//     Cookies.set(cookieName, initCookie, { expires: expirationDays
});

//     console.log('Cookie set to value 1');
//     $( "#ic_video_ad" ).append( "<div id=\"IC_D_3x6\"
style=\"margin:30px;\"></div>" );
// } else {
//     if (getCookie >= initCookie && getCookie < maxCookieValue) {
//         getCookie++;
//         Cookies.set(cookieName, getCookie, { expires:
expirationDays });
//         console.log('Cookie incremented. New value is ' +
getCookie);
//         $( "#ic_video_ad" ).append( "<div id=\"IC_D_3x6\"
style=\"margin:30px;\"></div>" );
//     }

```

```

        // else if (getCookie >= maxCookieValue && getCookie < 7) {
            // getCookie++;
            // Cookies.set(cookieName, getCookie, { expires:
expirationDays });
            // console.log('Cookie max allowed value reached. No
video ads showing. New value is ' + getCookie);
            // //Cookies.remove(cookieName);
            // // if cookie is equal with the number you've set,
then do something
            // // hide an element, delete the cookie etc...
        // }
        // else if (getCookie >= 7) {
            // Cookies.remove(cookieName);
            // // if cookie is equal with the number you've set,
then do something
            // // hide an element, delete the cookie etc...
        // }
    // }

</script>
<script>

```

```

$(document).ready(function() {

    var user_data = '171.76.81.154';          var country_code = 'United
States';
$.post('https://www.macrotrends.net/assets/php/user_frequency_tracking.php',
{user_ip: user_data, user_country: country_code});

    // Selects all of the text in the chart export window when clicked
$(".modal_link").focus(function() {
    var $this = $(this);
    $this.select();

    // Work around Chrome's little problem
    $this.mouseup(function() {
        // Prevent further mouseup intervention
        $this.unbind("mouseup");
        return false;
    });
});
});

```

```

        $('[data-toggle="tooltip"]').tooltip();

        $('.statement_type_select').select2({

            theme: "classic",
            minimumResultsForSearch: 20

        });

        $('.frequency_select').select2({

            theme: "classic",
            minimumResultsForSearch: 20

        });

    });

    $( "#compareStocks" ).click(function() {

        window.location.href = '/stocks/stock-
comparison?s=revenue&axis=single&comp=TESLA';

    });

    $( "#chartExport" ).click(function() {

        window.$('#smallWidthModal1').modal();

        //Turn off scroll bar for image export
        chart.chartScrollbarSettings.enabled = false;
        chart.validateNow();

        chart.export.capture({},function() {
            this.toPNG({},function(data) {
                // Download the image to the browser
                this.download( data, "image/png", "TESLA-
revenue-2022-12-09-macroTrends.png" );

            });

        //Turn scroll bar back on again

```

```

        chart.chartScrollbarSettings.enabled = true;
        chart.validateNow();

    });

});

$( ".statement_type_select" ).change(function() {

    window.location.href = 'https://testing.macrotrends.net/assets/php/income_stat
ement_testing.php?t=ZEV&type=' + this.value + '&freq=Q';

});

$( ".frequency_select" ).change(function() {

    window.location.href =
'/assets/php/new_chart_page.php?t=ZEV&type=revenue&freq=' + this.value;

});

</script>
<!--<div class="modal" id="contribute_modal" tabindex="-1" role="dialog" aria-
labelledby="exampleModallabel" aria-hidden="false">
    <div class="modal-dialog modal-lg">
        <div class="modal-content">
            <div class="modal-body" style="margin:20px 40px 20px 40px; text-
align:left;font-size:18px;">

<div class="row">

<div class="col-xs-6">

<script src="https://donorbox.org/widget.js"
paypalExpress="true"></script><iframe
src="https://donorbox.org/embed/macrotrends-donations?hide_donation_meter=true"
height="685px" width="100%" style="max-width:500px; min-width:310px; max-
height:none!important" seamless="seamless" name="donorbox" frameborder="0"
scrolling="no" allowpaymentrequest></iframe>

</div>

<div class="col-xs-6">

        <div class="modal_title"><h1><strong>We Need Your

```

Support!</h1></div>

<p>Macrotrends has been subscription-free since 2010 and we want to keep it that way.</p>

<p>Our goal has always been to serve as an easily accessible, high quality source of investment research for both professionals and amateurs alike.</p>

<p>Any amount that you can contribute will help ensure we can keep the site completely free for many years to come.</p>

<p style="margin-top:20px;">Regards,</p>
<p>The Macrotrends Team</p>

</div>

</div>

</div>

<div class="modal-footer" style="text-align:center;">
<button type="button" class="btn btn-success" data-dismiss="modal">Maybe
Next Time...</button>
</div>
</div>
</div>
</div>

<script src="/ads.js" type="text/javascript"></script>

<script>

\$(document).ready(function() {

var botPattern = "(googlebot\\|Googlebot-Mobile|Googlebot-Image|Google
favicon|Mediapartners-Google|bingbot|slurp|java|wget|curl|Commons-
HttpClient|Python-urllib|libwww|httpunit|nutch|phpcraw|msnbot|jyxobot|FAST-
WebCrawler|FAST Enterprise Crawler|biglotron|teoma|convera|seekbot|gigablast|exa
bot|ngbot|ia_archiver|GingerCrawler|webmon |httrack|webcrawler|grub.org|UsineNou
velleCrawler|antibot|netresearchserver|speedy|fluffy|bibnum.bnf|findlink|msrbot|
panscient|yacybot|AISearchBot|IOI|ips-agent|tagoobot|MJ12bot|dotbot|woribot|yan
gal|buzzbot|mlbot|yandexbot|purebot|Linguee Bot|Voyager|CyberPatrol|voilabot|baid
uspider|citeseerxbot|spbot|twengabot|postrank|turnitinbot|scribdbot|page2rss|sit
ebot|linkdex|Adidxbot|blekkobot|ezooms|dotbot|Mail.RU_Bot|discobot|heritrix|find
thatfile|europarchive.org|NerdByNature.Bot|sistrix crawler|ahrefsbot|Aboundex|do
maincrawler|wbsearchbot|summify|ccbot|edisterbot|seznambot|ec2linkfinder|gslfbot

```
|aihitbot|intelium_bot|facebookexternalhit|yeti|RetrevoPageAnalyzer|lb-spider|so
gou|lssbot|careerbot|wotbox|wocbot|ichiro|DuckDuckBot|lssrocketcrawler|drupact|w
ebcompanycrawler|acoonbot|openindexspider|gnam gnam spider|web-archive-
net.com.bot|backlinkcrawler|coccoc|integromedb|content crawler
spider|toplistbot|seokicks-robot|it2media-domain-crawler|ip-web-crawler.com|site
explorer.info|elisabot|proximic|changedetection|blexbot|arabot|WeSEE:Search|niki
-bot|CrystalSemanticsBot|rogerbot|360Spider|psbot|InterfaxScanBot|Lipperhey SEO
Service|CC Metadata
Scaper|g00gle.net|GrapeshotCrawler|urlappendbot|brainobot|fr-crawler|binlar|Simp
leCrawler|Livelapbot|Twitterbot|cXensebot|smtbot|bnf.fr_bot|A6-
Indexer|ADmantX|Facebot|Twitterbot|OrangeBot|memorybot|AdvBot|MegaIndex|Semantic
ScholarBot|ltx71|nerdybot|xovibot|BUbiNG|Qwantify|archive.org_bot|Applebot|Tweet
memeBot|crawler4j|findxbot|SemrushBot|yoozBot|lipperhey|y!j-asr|Domain Re-
Animator Bot|AddThis)";
```

```
var re = new RegExp(botPattern, 'i');

if (re.test(navigator.userAgent)) {

} else {

    //Check to see whether they are running an ad blocker
    if(document.getElementById('12mORwMnaEkJXlxz')){
        var ad_blocker = 'N';
    } else {
        var ad_blocker = 'Y';
    }

    $.post('https://api.ipstack.com/check?access_key=14fe63e83d5cfef
a0b3d4cec498479ba&output=json&fields=ip,continent_name,country_name,region_name,
city',

        function(ip_data){

$.post('https://www.macrotrends.net/assets/php/page_view_tracking.php', {ip:
ip_data.ip,continent: ip_data.continent_name, country: ip_data.country_name,
state: ip_data.region_name, city: ip_data.city, screen_width: screen.width, ads:
ad_blocker, page_type: 'stock'},

            function(data){
                /*
                if(data % 20 === 0) {

//$('#contribute_modal').modal();

                }
                */
            });
        });
```



```

    });

}

});

$.post('https://api.ipstack.com/check?access_key=14fe63e83d5cfefa0b3d4cec498479ba&output=json&fields=ip,continent_name,country_name,region_name,city',
function(ip_data){

    $(".contribute_user_id").val(ip_data.ip);

});

$( ".donate_buttons" ).click(function() {

    var payment = $(this).attr("value");

    $.post('https://api.ipstack.com/check?access_key=14fe63e83d5cfefa0b3d4cec498479ba&output=json&fields=ip,continent_name,country_name,region_name,city',
        function(ip_data){

$.post('https://www.macrotrends.net/assets/php/page_view_tracking.php', {ip:
ip_data.ip, paid: payment});

        });

});

</script>

-->
<script type="text/javascript">
var clicky_site_ids = clicky_site_ids || [];
clicky_site_ids.push(100827248);
(function() {
    var s = document.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = '//static.getclicky.com/js';
    ( document.getElementsByTagName('head')[0] ||
document.getElementsByTagName('body')[0] ).appendChild( s );
})();
</script>

```

```

<noscript><p></p></noscript>
<!-- This site is converting visitors into subscribers and customers with
OptinMonster - https://optinmonster.com -->
<!-- <script type="text/javascript"
src="https://a.omappapi.com/app/js/api.min.js" data-account="6392" data-
user="15772" async></script> -->
<!-- / OptinMonster -->
</body>
</html>

```

Using BeautifulSoup or the `read_html` function extract the table with Tesla Revenue and store it into a dataframe named `tesla_revenue`. The dataframe should have columns `Date` and `Revenue`.

Step-by-step instructions

Here are the step-by-step instructions:

1. Create an Empty DataFrame
2. Find the Relevant Table
3. Check for the Tesla Quarterly Revenue Table
4. Iterate Through Rows in the Table Body
5. Extract Data from Columns
6. Append Data to the DataFrame

[Click here](#) if you need help locating the table

Below is the code to isolate the table, you will now need to loop through the rows and columns

```
soup.find_all("tbody")[1]
```

If you want to use the `read_html` function the table is located at index 1

We are focusing on quarterly revenue in the lab.

```
[11]: tesla_revenue = pd.read_html(url)[1]
tesla_revenue = pd.DataFrame(tesla_revenue)
```

Execute the following line to remove the comma and dollar sign from the `Revenue` column.

```
[12]: tesla_revenue.columns = ["Date", "Revenue"]
tesla_revenue["Revenue"] = tesla_revenue['Revenue'].str.
    ↪replace(',', '\$', "", regex=True)
```

Execute the following lines to remove an null or empty strings in the `Revenue` column.

```
[13]: tesla_revenue.dropna(inplace=True)

tesla_revenue = tesla_revenue[tesla_revenue['Revenue'] != ""]
```

Display the last 5 row of the `tesla_revenue` dataframe using the `tail` function. Take a screenshot of the results.

```
[14]: tesla_revenue.tail(5)
```

```
[14]:      Date Revenue
48  2010-09-30      31
49  2010-06-30      28
50  2010-03-31      21
52  2009-09-30      46
53  2009-06-30      27
```

0.4 Question 3: Use `yfinance` to Extract Stock Data

Using the `Ticker` function enter the ticker symbol of the stock we want to extract data on to create a ticker object. The stock is GameStop and its ticker symbol is `GME`.

```
[15]: gme = yf.Ticker("GME")
```

Using the ticker object and the function `history` extract stock information and save it in a dataframe named `gme_data`. Set the `period` parameter to `"max"` so we get information for the maximum amount of time.

```
[16]: gme_data = gme.history(period="max")
```

Reset the index using the `reset_index(inplace=True)` function on the `gme_data` DataFrame and display the first five rows of the `gme_data` dataframe using the `head` function. Take a screenshot of the results and code from the beginning of Question 3 to the results below.

```
[17]: gme_data.reset_index(inplace=True)
gme_data.head(5)
```

```
[17]:      Date      Open      High      Low      Close      Volume  \
0  2002-02-13  00:00:00-05:00  1.620128  1.693350  1.603296  1.691667  76216000
1  2002-02-14  00:00:00-05:00  1.712707  1.716074  1.670626  1.683250  11021600
2  2002-02-15  00:00:00-05:00  1.683250  1.687458  1.658001  1.674834   8389600
3  2002-02-19  00:00:00-05:00  1.666418  1.666418  1.578047  1.607504   7410400
4  2002-02-20  00:00:00-05:00  1.615920  1.662209  1.603295  1.662209   6892800

      Dividends  Stock Splits
0           0.0           0.0
1           0.0           0.0
2           0.0           0.0
3           0.0           0.0
4           0.0           0.0
```

0.5 Question 4: Use Webscraping to Extract GME Revenue Data

Use the `requests` library to download the webpage <https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBMDeveloperSkillsNetwork-PY0220EN->

SkillsNetwork/labs/project/stock.html. Save the text of the response as a variable named `html_data_2`.

```
[18]: url = "https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/
↳ IBMDeveloperSkillsNetwork-PY0220EN-SkillsNetwork/labs/project/stock.html"
html_data_2 = requests.get(url).text
```

Parse the html data using `beautiful_soup` using parser i.e `html5lib` or `html.parser`.

```
[19]: soup = BeautifulSoup(html_data_2, "html.parser")
```

Using `BeautifulSoup` or the `read_html` function extract the table with `GameStop Revenue` and store it into a dataframe named `gme_revenue`. The dataframe should have columns `Date` and `Revenue`. Make sure the comma and dollar sign is removed from the `Revenue` column.

Note: Use the method similar to what you did in question 2.

Click here if you need help locating the table

Below is the code to isolate the table, you will now need to loop through the rows and columns

```
soup.find_all("tbody")[1]
```

If you want to use the `read_html` function the table is located at index 1

```
[28]: gme_revenue = pd.read_html(url)[1]
gme_revenue = pd.DataFrame(gme_revenue)
```

Display the last five rows of the `gme_revenue` dataframe using the `tail` function. Take a screenshot of the results.

```
[29]: gme_revenue.columns=["Date", "Revenue"]
gme_revenue["Revenue"] = gme_revenue['Revenue'].str.
↳ replace(',', '\$', "", regex=True)
gme_revenue.tail(5)
```

```
[29]:      Date Revenue
57  2006-01-31   1667
58  2005-10-31    534
59  2005-07-31    416
60  2005-04-30    475
61  2005-01-31    709
```

0.6 Question 5: Plot Tesla Stock Graph

Use the `make_graph` function to graph the Tesla Stock Data, also provide a title for the graph. Note the graph will only show data upto June 2021.

Hint

You just need to invoke the `make_graph` function with the required parameter to print the graph.

```
[31]: make_graph(tesla_data,tesla_revenue, "Tesla")
```

```
/tmp/ipykernel_3380/109047474.py:5: UserWarning:
```

The argument 'infer_datetime_format' is deprecated and will be removed in a future version. A strict version of it is now the default, see <https://pandas.pydata.org/pdeps/0004-consistent-to-datetime-parsing.html>. You can safely remove this argument.

```
/tmp/ipykernel_3380/109047474.py:6: UserWarning:
```

The argument 'infer_datetime_format' is deprecated and will be removed in a future version. A strict version of it is now the default, see <https://pandas.pydata.org/pdeps/0004-consistent-to-datetime-parsing.html>. You can safely remove this argument.

<IPython.core.display.HTML object>

0.7 Question 6: Plot GameStop Stock Graph

Use the `make_graph` function to graph the GameStop Stock Data, also provide a title for the graph. The structure to call the `make_graph` function is `make_graph(gme_data, gme_revenue, 'GameStop')`. Note the graph will only show data upto June 2021.

Hint

You just need to invoke the `make_graph` function with the required parameter to print the graph.

```
[30]: make_graph(gme_data, gme_revenue, "GameStop")
```

```
/tmp/ipykernel_3380/109047474.py:5: UserWarning:
```

The argument 'infer_datetime_format' is deprecated and will be removed in a future version. A strict version of it is now the default, see <https://pandas.pydata.org/pdeps/0004-consistent-to-datetime-parsing.html>. You can safely remove this argument.

```
/tmp/ipykernel_3380/109047474.py:6: UserWarning:
```

The argument 'infer_datetime_format' is deprecated and will be removed in a future version. A strict version of it is now the default, see <https://pandas.pydata.org/pdeps/0004-consistent-to-datetime-parsing.html>. You can safely remove this argument.

<IPython.core.display.HTML object>

About the Authors:

Joseph Santarcangelo has a PhD in Electrical Engineering, his research focused on using machine learning, signal processing, and computer vision to determine how videos impact human cognition. Joseph has been working for IBM since he completed his PhD.

Azim Hirjani

0.8 Change Log

| Date (YYYY-MM-DD) | Version | Changed By | Change Description |
|-------------------|---------|---------------|-----------------------------|
| 2022-02-28 | 1.2 | Lakshmi Holla | Changed the URL of GameStop |
| 2020-11-10 | 1.1 | Malika Singla | Deleted the Optional part |
| 2020-08-27 | 1.0 | Malika Singla | Added lab to GitLab |

##

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