

## Simple Stock Price Web Application

For this Application we need the library **streamlit**. But what is streamlit?

- Streamlit is a python library that allows you to build a simple data-driven web application with a few lines of code. This library is created for machine learning and data science applications specifically. For further information please visit the website: [www.streamlit.io](https://www.streamlit.io).  
To install streamlit : type in your terminal prompt → `pip install streamlit`  
To check that streamlit has successfully been installed please type `streamlit hello`

A **stock market** is simply a place where shares of public listed companies are traded. So, since we are dealing with stock prices details, we might require web scraping. And for that we're going to use **yahoo finance**. Yahoo finance works with online advertising companies to provide you with advertising that is as relevant and useful as possible.

To install yahoo finance type: `pip install yfinance`

---

**The Code:** we will test it for the Apple company

```
import streamlit
import yfinance

streamlit.title("""Stock Market App with *Streamlit*""")
streamlit.header("Simple Data Sience Web App")
streamlit.sidebar.header("Made by:\nAwad Soleman")

# Fetching historical data by valid periods
data = yfinance.Ticker("AAPL").history(period="3mo")

# Markdown
streamlit.write ( """ ### Apple""")

#Detailed summary about Apple
streamlit.write(yfinance.Ticker("AAPL").info['longBusinessSummary'])

#Fetching data for DataFrame with yfinance.download() and write them.
streamlit.write(yfinance.download("AAPL",start="2012-10-13",end="2022-10-13"))

#Chart
streamlit.line_chart(yfinance.Ticker("AAPL").history(period="3mo").values)

# Calendar of events
yfinance.Ticker("AAPL").calendar

# dividend
yfinance.Ticker("AAPL").dividends

# the major shareholder of the stock
yfinance.Ticker("AAPL").major_holders

# the list of institutional holders of the stock
yfinance.Ticker("AAPL").institutional_holders
```

- if you want to run the server in streamlit you type in the terminal of your environment `streamlit run project.py` (not python project.pi)

Example: D:\Data Science Apps\first App>streamlit run first\_app(stock\_price).py

-To kill the server press **ctrl-C** and if you use Pycharm environment please press **ctrl-shift-W** to kill the process.

The final view:

