T212toXSLX

Brief: Create a script that allows for data to be scraped from a Trading 212 account to an excel/google sheets spreadsheet.

This is the brief, very simple. The thing is, i am competing against others to get the role of CTO of the national student management fund, a society with 100+ members. Therefore, i will do everything i can to make it exceptional before the deadline.

- [x] ~~Create Git repo~~
- [ ] Publish to Github

Stage 1 - Basics

- [x] ~~Use and test trading212 api calls~~
- [x] ~~Use and test excel io libraries~~
- [x] ~~put them together~~

> ❗ - [x] ~~format sheet for this information~~

Stage 2 - Visualisation

- [ ] Test graph generation in excel
- [ ] Create meaningful pie, hist, and line charts with T212 data

> ❗ - [ ] Interactivity

Stage 3 - AI

⚠️ ☐ make functioning deepseek api calls

☐ behavioural finance dropdown menu

    ☐ Herding (buying after strong price moves?)

    ☐ Show charts of "emotional trading moments"

    ☐ Loss aversion (selling winners too early?)

Stage 4 - Bonus

☐ Sharpe Ratio for your trades vs S&P 500

☐ Beta of portfolio

☐ Value at Risk (VaR) estimate

☐ Max Drawdown

☐ Sector/Asset correlation matrix

Spreadsheet layout

1. Account Summary

Tables

☑ ~~Cash Info~~

☑ ~~Historical Transactions; like a balance sheet → in, out~~

☑ ~~Open Positions~~

☑ ~~pie price and weighting breakdowns~~

Advanced Account Info

Graphs

☐ Cumulative Capital Gains Line Graph

- ☐ Cumulative Dividends Gains Line Graph

Search bar

- ☐ Historical Buy/Sell by Asset

Tables

- ☐ hold time
  - ☐ average hold time
  - ☐ longest hold time stock
- ☐ total fees paid

2. Portfolio Analysis

- ☐ portfolio beta breakdown table
- ☐ Quant table:

Metric	Your Portfolio	S&P 500	Outperformance
Sharpe Ratio	1.8	1.2	+50%
Value at Risk	-£320	-£410	+22% safety

- ☐ industry pie chart

3. AI input

- ☐ **Pattern Detection:** I would examine the frequency of trades and their timing. Excessive or clustered trading could suggest impulsive behaviour or market-timing attempts

- ☐ Time-of-Day/Day-of-Week Trends

- ☐ **Risk Management Behaviour:** Analysing whether the investor predominantly uses market orders versus limit orders, or stops and stop-limit orders, can explain their tolerance for risk versus their desire for control.

- ☐ **Holding Period Analysis:** Measuring the average hold time of positions helps in understanding if the investor is primarily focused on short-term gains or long-term growth.

- ☐ Comments on specific buy and sell positions of frequent individual assets, industries, and asset classes.