About

Dive into Drapt's history, from the beginning to where it currently stands.

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What is Drapt?

Drapt is a modular portfolio analytics platform for portfolio risk and performance analysis - built for clarity, speed, and most importantly to educate.

Empowering Portfolio Managers and Analysts alike, it demystifies quantitative portfolio analysis in an intuitive way, making it accessible for all levels of technical proficiency, from students who have never heard of Python to seasoned quants.

Powered by high-performance servers and optimised computation pipelines, Drapt makes it easier than ever to understand a portfolio's current position amidst the inherent chaos of financial markets.

def explain_drapt():

return "Modular, educational, and built for clarity."

Early vision...

November, 2024

End of November, 2024

Drapt

Drapt began its story as DRAP-T, an acronym for *Dynamic Risk Analysis and Performance Tool*, in November 2024.

The inspiration for starting the project was my desire to incorporate quantitative risk analytics into the NEFS Investment Fund, as around 1 month into being an analyst I realised that The Fund relied on qualitative risk analysis.

Until the revamp, Drapt was being developed in a very inefficient manner, with the following tech stack:

```
return "From qualitative guesses to quantitative insights"
```

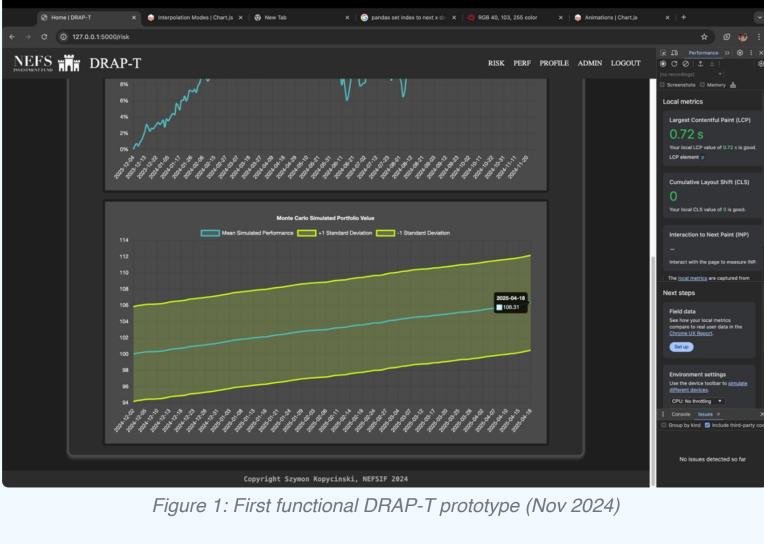
- Python (backend)

def start_project():

- Flask used for backend routing, deployed using a test server. Unconventional.
- NumPy, Pandas, yfinance quite typical for processing data.
- Sqlite3 hosted locally, not very modular as I had to create custom database managers in Python. - HTML/CSS/JS (frontend)
 - HTML and CSS manually written, literally from the ground up. No Tailwind CSS or DaisyUI like is being used today. • JS - base JS, including only one package: Chart.js

Milestone #1

The first version of DRAP-T was not the prettiest, or the most functional...



The first prototype did not allow for portfolio creation, and it only had three features:

- A very meaningless returns histogram.

- A cumulative portfolio returns plot, which was done incorrectly, using cumsum() instead of cumprod() I'll admit, I didn't use log returns initially... - A (quite pointless) Monte Carlo simulation visualisation which 'forecasted' future portfolio returns, without taking into account asset correlations.

But little did I know, this first prototype did in fact one day become something magical. def milestone_1():

```
fix_cumulative_returns = False
return "The prototype which started it all.."
```

Milestone #2 This was the final version before the current revamp. It helped take my team in the WBSS Investment Challenge 2024/2025 to the finals, it really was

def milestone_two():

February, 2025

something beautiful. Fixes were made, styles were changed, and the platform became a whole lot more functional. I mean, I would hope so, it took 3 months.

Additionally, DRAP-T was renamed to **Drapt Analytics**, to reflect the clean interface and professional usability of the platform. From a high level, improvements and feature changes included:

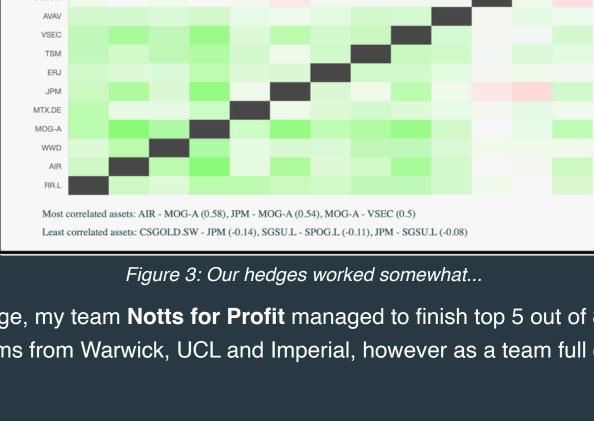
```
return "Refactor, restyle, and rethink risk"
- Changed the style, from that odd green and gray to a more professional blue on white.
```

- Fixed cumulative returns (using log returns now instead of percentage returns). - Added rolling volatility analysis (Figure 2), this really was a great feature.

Rolling 30 Rolling 60 Rolling 125

- Improved the asset correlation matrix (Figure 3). And a few more features.
- **Rolling Volatility**





Asset Correlation Matrix

Team Notts for Profit, representing NEFSIF on the 17th floor of The Shard (Feb, 2025) Where it currently stands

As well as this, there was a (yet another) name change, with the platform now called **Drapt**. Drapt is still in motion, slowly accelerating, but it's already become something far greater than I imagined when I started. Thanks for reading - and welcome

upgrading the backend.

Present

aboard. You may ask, what's next?

At the end of May 2025, I decided to revamp Drapt Analytics, rebuilding it using a modern React frontend (using TailwindCSS and DaisyUI), as well as

def revamp():

- Month 1 → UI, along with dummy forms (such as login, etc.) - where I currently stand.

```
- Month 2 → the start of work on the backend (FastAPI, webhooks, the lot).
 - Month 3 → optimisation, design refinements, and other work (setting up Redis, production DB's).
Welcome aboard, this journey will be an exciting one.
```

return "React, Tailwind, and a vision for scale"

- 9Kopn Szymon

Acknowledgments

Drapt wouldn't be possible without the incredible open-source tools and resources that supported its development:

- React the foundation of the frontend. - Tailwind CSS & DaisyUI — for styling and UI speed. - Python, Pandas, NumPy, FastAPI — for data wrangling, logic, and the rest of the backend.
- My mentors at NEFS, The Fund, and the WBSS challenge team for believing in this vision early on. - And finally, my parents, for their unconditional support throughout my studies.
- def gratitude():
- resources = ["open source", "mentors", "friends", "family"] for resource in resources: print(f"Thank you, {resource}!")