

About

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

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

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:

- Python (backend)
 - 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

End of November, 2024

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

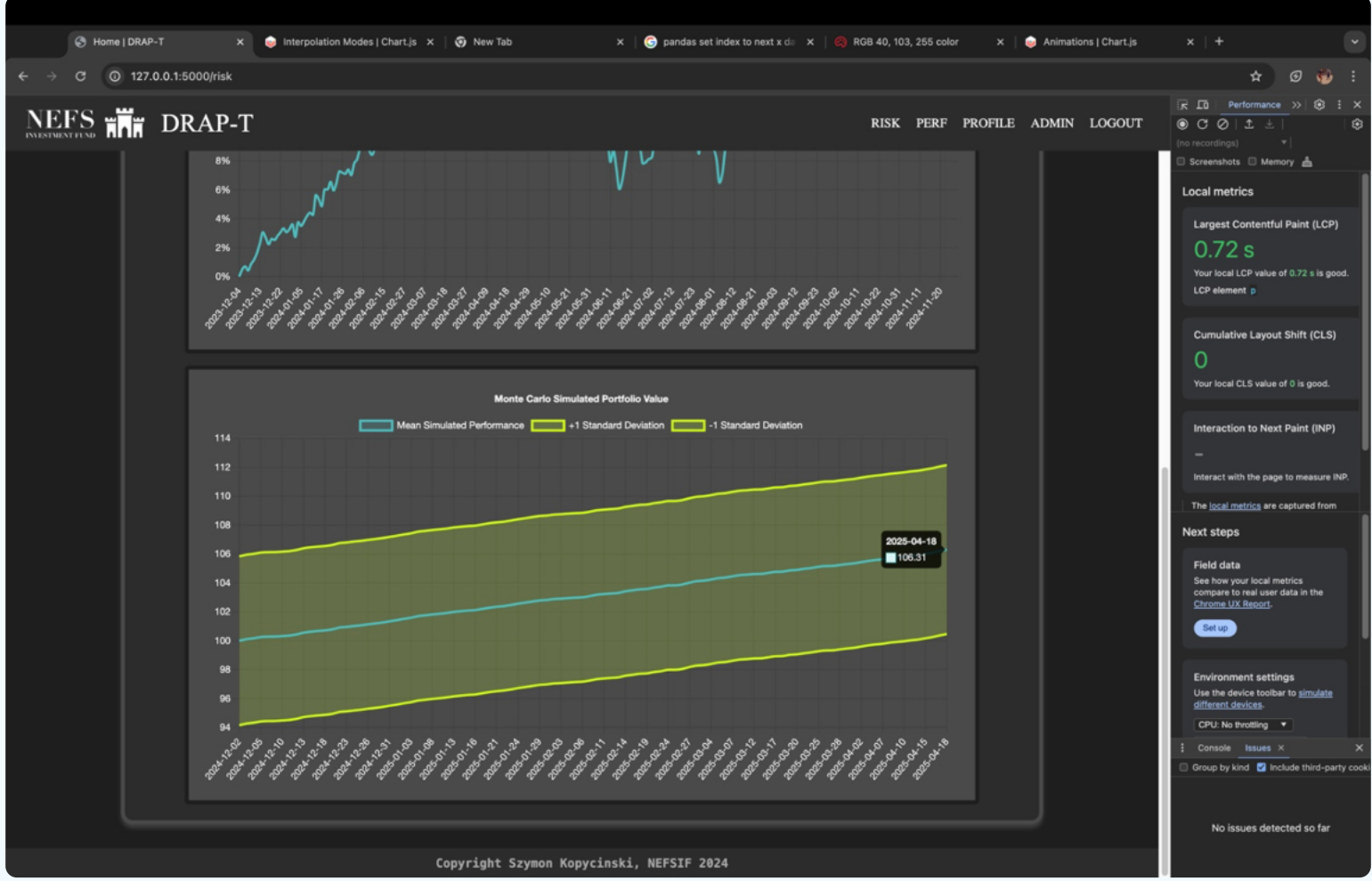


Figure 1: First functional DRAP-T prototype (Nov 2024)

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

February, 2025

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 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:

```
def milestone_two():
    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.
- Improved the asset correlation matrix (Figure 3).

And a few more features.

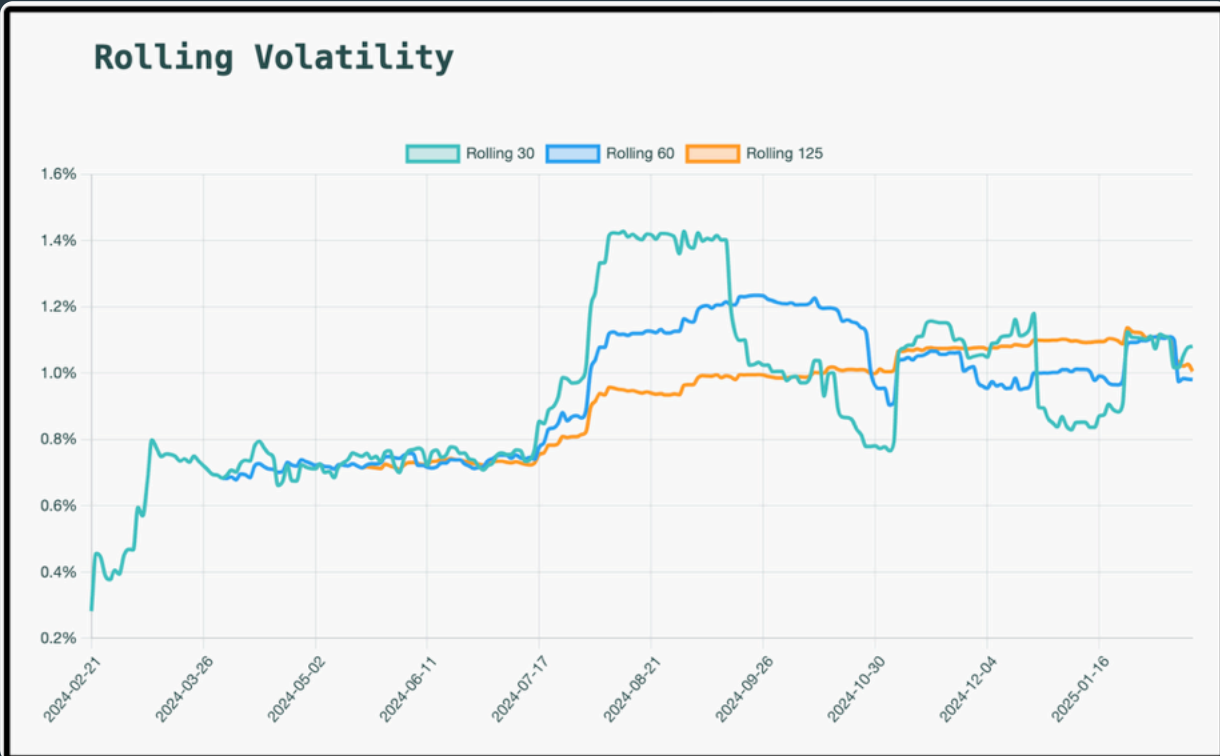


Figure 2: Rolling Volatility

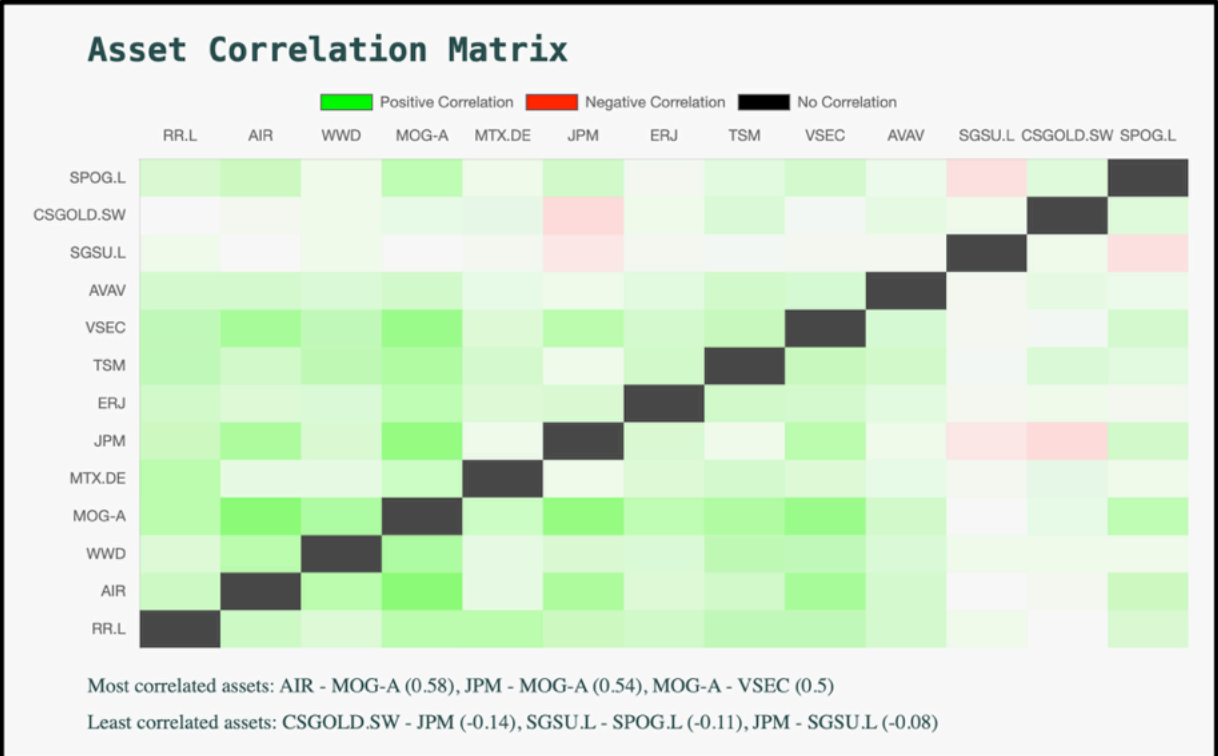


Figure 3: Our hedges worked somewhat...

To expand on my previous sentence mentioning the WBSS Investment Challenge, my team **Notts for Profit** managed to finish top 5 out of 80+ teams across the United Kingdom. We met some heavy competition, from brilliant teams from Warwick, UCL and Imperial, however as a team full of first-year undergraduates we really put Nottingham on the map.



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

Where it currently stands

Present

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 upgrading the backend.

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 aboard.

You may ask, what's next?

- 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.

Szymon

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.