### **Finance Dashboard Project – My Contributions**

In the finance pipeline project, I focused on improving how data is collected, cleaned, and stored for analyzing stocks like Apple and Tesla.

* I implemented a data sanitization method to **avoid gibberish or low-quality text** from being saved to the database.
* I added **logging mechanisms** to ensure every step in the pipeline could be tracked this helped in debugging and monitoring.
* I worked on **optimizing the workflow**, especially in how the pipeline processes large volumes of data to make it more efficient.
* I used a language model (LLM) to **extract important keywords** automatically from company-related text, which improved the relevance of the data we collect.
* I participated in **database schema updates and migration scripting**, helping to transition our structure from using stock tickers to using company IDs.
* I also helped **collect and format EU company data**, turning it into CSVs and supporting its insertion into the database.
* Finally, I helped **refactor the finance dashboard’s backend code** to follow a consistent naming convention, switching from PascalCase to snake\_case, in line with the new database design.

### **Clinical Trials Data Pipeline My Contributions**

In the clinical trials project, I mostly worked on data cleaning and helped automate the collection of raw data from the WHO portal.

* I developed and tested **Python scripts to clean clinical trials data**, focusing on fixing inconsistent dates, cleaning text fields, and standardizing sponsor names.
* I removed unnecessary or duplicate fields to make the dataset more usable for analysis.
* I helped write and maintain the **automation script** that downloads the raw trial data using Selenium.
* I also assisted in integrating the cleaning steps into the full pipeline so that once the data is downloaded, it goes through all the cleaning processes automatically.

### **Secure Medical Image Upload System (Wix Project) My Contributions**

Over the past few weeks, I’ve been working on developing and improving a **secure medical image upload system** on our Wix website.

* I started by familiarizing myself with **Wix’s website builder and Velo**, ensuring the platform is responsive and user-friendly on mobile devices.
* I implemented **user login validation**, allowing only signed-in users to upload case studies or medical files.
* To improve the user experience, I added **pop-up confirmations and toast notifications** after successful submissions.
* I built the **entire MRI image upload interface** on Wix using Velo and made sure it integrates smoothly with a secure FastAPI backend.
* Although a teammate originally developed the FastAPI endpoint, I made **critical adjustments to support the Wix frontend** and improve compatibility.
* I researched **HIPAA compliance requirements** to ensure medical images like MRIs are uploaded and handled securely.
* I also helped ensure that every image upload is **converted to DICOM format**, anonymized, encrypted, and securely logged for audit purposes.