THOMAS MORE

Slide Deck Generator and Banking Control Automation

Reflection document

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1. Introduction

This reflection provides an overview of my experience during my internship at KPMG Belgium. It highlights both the tangible outcomes of my work as well as the personal and professional growth I experienced. The internship was an opportunity not only to deliver meaningful contributions but also to explore my interests, learn new tools, and gain insight into my future career path. This document is structured into two parts: a **substantive reflection** on the projects carried out, and a **personal reflection** on what the experience meant to me.

2. Substantive Reflection

ACCOMPLISHMENTS AND DELIVERABLES

During the course of my internship, I successfully completed two major AI-driven automation projects:

- **The Slide Deck Generator**, a fully working solution that extracts relevant insights from uploaded PDFs and automatically generates a structured, branded PowerPoint presentation using Langflow, OpenAI, and Azure Functions.

- **The Banking Control Assessment Automation**, which focuses on evaluating internal banking controls using LLM-based analysis and semantic similarity. I worked specifically on two flows: duplicate control detection and quality control scoring, while also integrating them with Streamlit through custom API endpoints.

Both projects were designed to enhance efficiency and reduce manual effort within the Intelligent Automation team.

PROJECT COMPLETION STATUS

The **Slide Deck Generator** was fully developed and tested during the internship. While KPMG may continue to refine and expand it, the core pipeline was complete and fully functional by the end of my internship.

The **Banking Control Assessment** project, on the other hand, remains partially complete. I successfully implemented and tested the two key Langflow flows mentioned above, but due to time constraints, additional planned features could not be delivered before the end of the internship. I believe the foundation I laid will help the team continue this work efficiently.

SKILLS AND LEARNING OUTCOMES

Throughout this experience, I developed both new technical skills and stronger engineering practices. I learned:

- How to build and chain Langflow agents and create **custom components**
- How to work with **Streamlit**, **Python APIs**, and integrate Langflow programmatically
- How to structure **prompt engineering** logic for LLM agents (especially using the 5W1H method)
- How to evaluate and select tools through research, such as comparing **FAISS** and **PGVector** for embedding retrieval and adapt to organizational standards even when the best-performing tool (FAISS) was not the one ultimately chosen
- How to write, structure, and test LLM-powered flows in a production-style setting

Initially, I also started learning **RPA tools like UiPath**, as this was mentioned in the internship description. However, the actual scope of the project did not involve RPA, which was a good reminder that expectations and project scopes can shift and that adaptability is essential.

ADVICE FOR FUTURE INTERNS

If I had one piece of advice for future interns, it would be: **be ready to adapt**. What's in the internship description may not exactly match reality, and that's okay. You might end up learning something completely unexpected just stay open to learning, and document your process. Even if you've never used a tool before, don't be discouraged. Langflow was entirely new to me, but with some independent research and support from a colleague, I was able to quickly get up to speed and build impactful pipelines.

3. Personal Reflection

This internship gave me a clearer vision of what I want from my future career. While my role focused on building with LLMs, it helped me discover that I'm naturally more of a **creative, visual thinker,** which draws me toward paths like software development, frontend work, or data-oriented roles. I realized that what excites me most is building usable, elegant systems and interfaces, not just experimenting with models.

One of the most impactful aspects of the internship was how **independent** the project was. Although I expected more collaboration, the fact that it was a standalone assignment taught me to work on my own, manage my time effectively, and figure out solutions independently. I became more confident in my ability to deliver end-to-end results with limited supervision.

Despite the solo nature of the work, the experience at KPMG was not isolating. The company hosted events like bootcamps and social gatherings, which allowed me to connect with colleagues, learn about other departments, and expand my professional network.

One interesting realization I had during the internship was about my growing reliance on AI tools. At school, we were encouraged to use AI to support project work, and I carried that mindset with me. While it helped accelerate development, I sometimes found myself relying on AI too quickly, even for tasks I could reason through on my own. That habit started to feel counterproductive. Moving forward, I want to be more intentional: I'll turn to AI only when I've exhausted my own ideas first. I believe this discipline will help me grow stronger as a problem solver and creator.

Looking back, this internship helped me grow in both technical confidence and professional maturity. I am deeply grateful to KPMG for the opportunity to contribute and to Thomas More for supporting this journey. The experience has left me more self-aware, more technically skilled, and more grounded in the kind of professional I want to become.