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## **My approach AI Agent Intern Technical Test :**

### **1/ Discovering the subject**

I read the whole subject to try to understand everything and see what was at stake. I'd never dealt with this kind of project before, so I took my time to understand the different elements and their implications.

I went to the docs of the tools I was going to use for this test, such as unsloth, ollama and their uses.

### **2/ First approach to indexing and ollama discovery**

The first question, about indexing with deepseek, was relatively quick.

My first approach was to understand how indexing worked, particularly with embeddings, and then how to store them locally.

I used chatGPT to show me how to use chromedb, how to use the ollama library with python and also for create artificial documents for indexing.

### **3/ Fine tuning**

The Fine tuning part was the most complicated and long, my approach was first to understand the mechanism behind fine tuning. I watched videos on youtube, read docs but also asked chatGPT questions.

I had a lot of trouble, especially with dependencies, version problems and incompatibilities.

### **4/ Last Part**

The last part was pleasant and fairly straightforward, allowing me to put the mini-project into concrete terms and try to make the script clear. As for my approach, I tried to understand how all the elements could fit together.

My approach throughout was that of a curious person eager to learn and I tried to really learn as much as possible and do the best I could.