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**How much time did you spend on the assignment?**

15-24 hours – because I have to watch all the videos first before starting the assignment.

**Were there aspects of the assignment that were particularly challenging? Particularly confusing?**

In part 1, `lab1agents.py` explains the three agents and I was confused whether we needed to rewrite the whole code from scratch or if we already have the base code. Before asking our professor a question, I made sure to check whether I missed something and I did – there is already a course repo on GitHub. Another one was for Part 2, where it was mentioned to implement “two different behavior modes.” I think this confused me as well since I wasn’t sure if we had to implement the two behavior modes or just the `GoHomeMode` – as this was emphasized in the last part “Your job is to implement the “go home mode” rules, and also decide the right threshold to trigger the change in behavior.”

**What were the main learning take-aways from this lab – that is, did it change your understanding of what AI is? Did it introduce particular concepts or techniques that might help you as an analyst or engineer or AI specialist in the future?**

Some important lessons can be gathered from the report's conclusions. First of all, it is clear that trial is crucial in the field of artificial intelligence; there is no one-size-fits-all solution; instead, a variety of models and methodologies require investigation. Parameter fine-tuning, as exemplified by the “go home” threshold, becomes a crucial factor influencing performance. Knowing the advantages and disadvantages of various AI agents is essential, just as it is to know when to use each one according to its capabilities. Analyzing data takes center stage and guides well-informed decision-making, much like examining game statistics. It becomes clear how important it is to strike a fine balance between discovery and exploitation—think of it as being both a detective and an expert. Finally, the need for ongoing development, analogous to frequent software upgrades, emphasizes how successful AI applications are always changing. These key lessons highlight data analysis, flexibility, and continuous progress and provide insightful guidance for any related job navigating the ever-evolving area of AI.