

CodeCraft: Unleashing Langchain & LLMs

Assignment 3

Part 1: Short Answers: (Markdown cells of Jupyter Notebook)

1. What is LangServe? What is the main purpose of LangServe?
2. What is LangSmith? What is the main purpose of LangSmith?
3. What is fine-tuning? Where can it be used? Give 2 examples.
4. What are the different ways of fine-tuning? According to you which is the best way to fine-tune a model?

Part 2: Coding Section: (Code Cells of Jupyter Notebook)

QUESTION: Download Llama2 model from the website below, use this model in langchain, create a prompt template which generates a conspiracy theory by inputting a topic name. Monitor the time taken and other parameters in LangSmith.

(Hint*) - <https://llama-2.ai/download/> [Download the Llama2 model from this, use the 7B or the 13B model]

Submission:

1. Submit a single Jupyter notebook (**Naming format - <First Name SRN>.ipynb**) consisting of both parts of the section (Short Answers & Coding Section)
2. Submit a Zip Folder -take output screenshots with the question , **naming convention - question_subquestion.png**(example: part2_a.png) for each

screenshot, zip this folder (Naming format - <First Name_SRN>.zip)

3. Submission Deadline : 7th April, 2024 (23:59)