



IIT KHARAGPUR AI4ICPS I HUB FOUNDATION

Hands-on Approach to AI, Cohort-2, July – October 2024

Assignment 13: ChatGPT LLM

Due date: Friday 11th October 2024, EOD – IST.

Important Instructions for submitting solutions

1. Submit the solution to all questions in the assignment should be submitted in a **single PDF file with not more than 500 words**.
2. Any plagiarism if detected will automatically attract **zero marks** for that assignment.
3. It is preferable if the **text of PDF file can be extracted** through a PDF extractor e.g. PyPDF. For example, pictures of handwritten text are not extractable, whereas PDF generated by MS Word, Latex, etc., are.
4. Exceptionally good solutions with extractable text may receive **special appreciation** from the teachers.

Question 1:

What are the three different levels of using large language models? Write a short paragraph to detail each of the steps.

Question 2:

What are some common limitations of large language models, including ChatGPT?

Question 3:

How can Retrieval Augmented Generation (RAG) boost the performance of LLMs? In other words, what are the advantages of using RAG?