

rag augments the prompt with the external data while fine tuning incorporates the additional knowledge into the model itself however the pros and cons of both approaches are not well understood in this paper we propose a pipeline for fine tuning and rag and present the tradeoffs of both for multiple popular llms including gpt4 gpt3.5 turbo claude llama2 mistral gemini etc. we evaluate the performance of these models on a variety of tasks including text classification, question answering, and summarization. our results show that rag generally outperforms fine tuning, especially for tasks requiring up-to-date information and domain-specific knowledge. however, fine tuning can be more efficient and cost-effective for tasks where the model's knowledge is static and the dataset is large. we discuss the implications of these findings for the future of llm research and development.

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