

Applying Large Language Models to Interactive Information Retrieval: A Practical Exploration

Part III: Future of LLMs with IIR

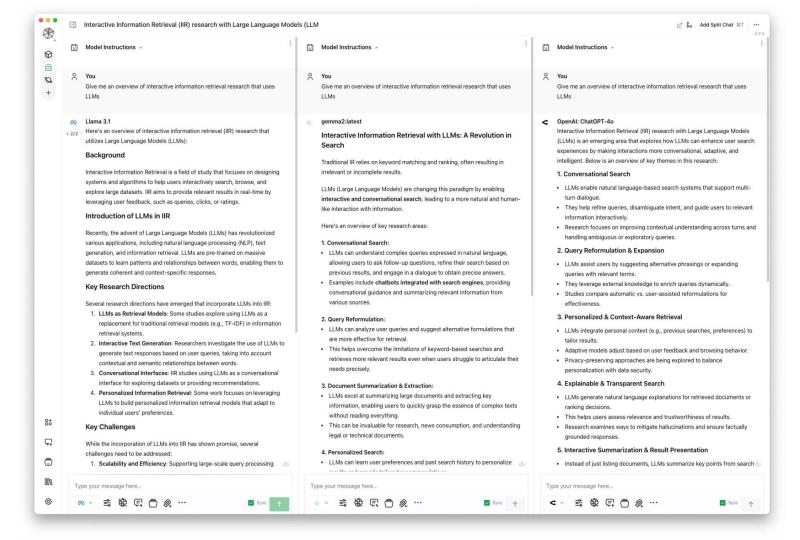


What we didn't talk about

- All the tools
 - Ollama, MSTY.app, HuggingFace (and local models)
- All the APIs
 - Azure, OpenAl, Google, Amazon Bedrock
- All the training
 - o PEFT, (Q)LORA







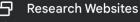
Gemini Deep Research example

Give me an overview of interactive information retrieval (IIR) research that uses LLMs



Here's the plan I've put together. Let me know if you need any changes before I start researching.

LLMs in Interactive Retrieval



Give me an overview of interactive information retrieval (IIR) research that uses LLMs

"large language models". (2) Identify research that specifically explores the integration or application of LLMs within IIR systems.

(1) Search for academic papers and research articles on "interactive information retrieval" and

(3) Summarize the different ways LLMs are being used in IIR, such as guery reformulation,...

More

Analyze Results

Create Report

https://g.co/gemini/share/2f512 5c8ae36

Ready in a few mins

Where are LLMs being used now?

- Personalization
 - Wang et al. <u>Task Supportive and Personalized Human-Large Language Model Interaction: A</u>
 <u>User Study</u>
- Querying and Feedback
 - Dhole et al. <u>An Interactive Query Generation Assistant using LLM-based Prompt Modification</u> and User Feedback
- Simulation
 - Azzopardi et al. <u>SimIIR 3: A Framework for the Simulation of Interactive and Conversational</u>
 <u>Information Retrieval</u>
- Query Sensitivity/Performance Prediction
 - Rezavi et al. <u>Benchmarking Prompt Sensitivity in Large Language Models</u>

Now is your chance!

- Soundboard your ideas!
- Ever wondered if LLMs are a good fit? Let's discuss!

Before we go 🍻 🧃 🥤 🍜 🥘 🍵

Some interactive questions...

Feedback

- If we do this again, what would you like to see?
 - Using LLMs to do research (e.g., analysis)?
 - More concrete problems?
 - More examples of prompting techniques?
 - Training LLMs?