

Peer Review

# Review of: "LLM as HPC Expert: Extending RAG Architecture for HPC Data"

Yuping Fan<sup>1</sup>

1. Illinois Institute of Technology, United States

Strengths:

- The paper presents a well-defined problem in High-Performance Computing (HPC) accessibility and security, which is timely given the increasing integration of AI in HPC environments.
- The approach is clearly structured, explaining RAG, HyCE, and its evaluation process well.
- The inclusion of security concerns (e.g., command execution safety, data privacy) makes the proposal more practical for real-world deployment.
- The evaluation includes meaningful benchmarks, and Table 2 effectively demonstrates the incremental benefits of HyCE, prompt engineering, and better models.

Improvements:

- While the paper explains the evaluation well, more details on the **scoring mechanism** for automatic RAG evaluation would be helpful.

## Declarations

**Potential competing interests:** No potential competing interests to declare.