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LLM-Powered Software Engineering

Large language models (LLMs) bear great potential for automating tedious development tasks, like creating and maintaining source code documentation. We assist software developers of European XFEL (EuXFEL) with LLM-powered tools that facilitate knowledge and documentation management. We present findings from two controlled experiments conducted with EuXFEL's Data department, focusing on LLM-generated documentation for the Karabo control system and knowledge retrieval within the Data Operation Center. We also outline a recent project on analyzing ethical requirements discussed in artificial intelligence (AI) guidelines, with a focus on how these considerations can be integrated into AI model documentation. Documentation such ethical requirements can support organizations like EuXFEL in selecting models that align with their values and integrating AI responsibly into their workflows.

I want to give a Lightning Talk

no

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