

Am I the only one being confused?

When I read articles on the use of AI in the geosciences I am overwhelmed by the number of abbreviations and methods used. I realize that new opportunities are in the making and that I should do my utmost to understand them and even try them myself. For example, the promise of Generative AI using Large Language Models (LLM) in combination with LLM-based agents, preferably with human interaction using Retrieval-Augmented Generation (RAG), combining automatic searching relevant reports is the way forward. In addition, LangGraph, consisting of activity nodes (LLM calls, calculations, human interactions), edges (going from one node to the next) and state (keeping track of all previous actions) are recommended. Although we are not there yet, the first preliminary foundation (LLM) models, containing a wealth of accumulated experience, which should be updated continuously, are available for many geophysical applications. However, I still find it very difficult to find a way to implement useful applications. I guess I am not the only one.