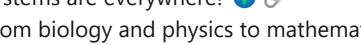


Yogesh Haribhau Kulkarni • You Al Advisor (Helping organizations in their Al journeys) | PhD (Geometric ... 23h • 🕟

Systems are everywhere!



From biology and physics to mathematics and software everything operates within a system. (Currently reading 'Thinking in Systems' by Donella Meadows. (11)

A system is essentially a set of interconnected elements with a function or purpose. But here's the catch—systems are more than just the sum of their parts! (Think, दो और दो पाँच, 2+2=5 🔯). With feedback loops and self-organization, they create emergent behaviors that are often unpredictable but can be useful!!.

One powerful way to represent systems? Graphs! 📊

Graphs are everywhere—social networks, molecular structures, geometric shapes, and more. But what happens when we take graphs a step further? Knowledge Graphs bring us even closer to modeling reality, unlocking new Al possibilities. 🚀

Here's what I'm currently exploring in this space:

- Graph RAG Retrieving relational contexts beyond similarity (building a chatbot on Indic wisdom 📜 🔄)
- Graph Neural Networks (GNNs) Learning embeddings for predictions/classifications (consulting project)
- Geometric Deep Learning Developing invariant representations for tasks like dimensionality reduction (research with a top IIT team)
- Graph-based Agents Automating workflows with intelligent agents (potential MicroSaaS idea, that's 'Systems + Graphs' 💡 )

Are you working on AI with systems or graphs? Drop me a message if you've made exciting progress in any of these fields.



#AI #KnowledgeGraphs #GraphNeuralNetworks #GeometricDeepLearning #SystemsThinking #MachineLearning #DeepLearning #Automation #mvpbuzz Neo4j Microsoft Google Indian Institute of Technology, Madras #autogen Hugging Face

