Re: Peer Response

by Mariam Ibrahim Ismail Hasan Almarzooqi - Friday, 17 October 2025, 3:56 PM

Hi,

Thank you for your detailed and insightful post. You've clearly highlighted the growing importance of agent-based systems (ABS) in managing complex and decentralized environments. I agree with your point that traditional centralized systems often lack the flexibility and scalability required in today's fast-paced, data-driven world, and ABS presents a compelling alternative.

Your explanation of how agents operate independently, perceiving, reasoning, and collaborating, is particularly relevant to real-time applications such as supply chains and healthcare. I also appreciate your mention of different agent models (reactive, deliberative, and hybrid) and how multi-agent systems mirror human organizational behavior. This comparison really emphasizes the value of ABS in designing adaptive and resilient systems.

It's exciting to see how developments in AI, particularly machine learning and behavioral modeling, continue to enhance agent capabilities. As these systems become more advanced, I believe the challenge will lie not only in implementation but also in ensuring ethical and transparent decision-making, especially in high-stakes environments.

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