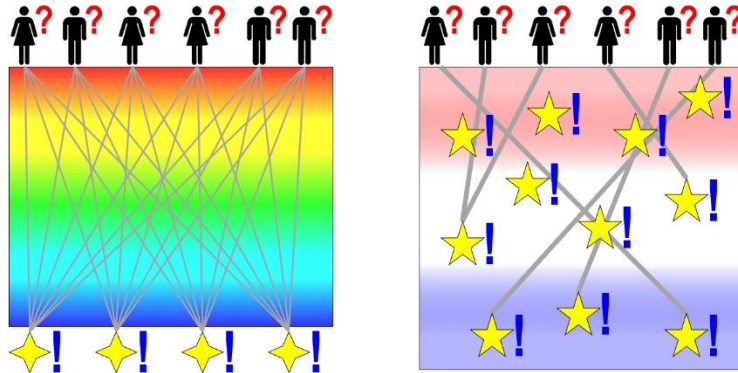


New AI Tech Demonstrates Massive Improvements Over GenAI

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*Lest you, dear reader, be deceived:
While the wonders described herein be
Both true and wholesome, this be naught
But a satire with a serious point. [1]*



MONK AI Ownership Model

- One party owns/rules all data
- Holographic (diffuse) access
- All answers become mutable
- Massive infrastructure costs
- Massive energy costs

(MONK Ownership = Monarchy or Oligarchy or North Korean ownership)

Free Market AI Ownership Model

- Local experts own their data
- Dynamic states, narrow paths
- Answers secured by owners
- Distributed, selective costs
- Vastly lower energy costs

(Free Market Ownership = Mutually competitive "small AI" ownership)

History is always about who owns and manipulates the data. AI amplifies opportunities for data abuse.

Imagine the financial impact of a new AI technology that, out of the box, replaces the hallucinations of GenAI with solid, data-based results that are as accurate as anything humanly possible. Picture the impact of achieving this while simultaneously reducing the risks of training data pollution or malicious intrusion into the functionality almost to zero. Finally, consider the positive fiscal and environmental impacts of achieving these goals with a new AI technology so computationally and energy efficient that multiple instances can run simultaneously in your current smartphone without needing massive server farms located hundreds or thousands of miles away.

Sound revolutionary and farfetched? It's not. It's already real (Fig. 1).

“Our revolutionary insight was recognizing that, despite its attractive conceptual power, the associative-memory model of training AI on thousands or even millions of real-world examples was creating vast and unnecessary inefficiencies in the internal architectures of our AI systems,” noted the project lead for the new collaborative government, industry, and academic project. “We looked deeper and found ways to shorten the path from input to output. Our close examination of options led to the discovery of dynamic state path approaches that precisely replicate the outcomes of the associative model without the energy and computational cost of constantly accessing unmeasurably vast associative memory spaces.”

Addressing the claims of higher reliability for this new AI tech, their research lead noted that “a side benefit of this dynamic-state approach is that we split a huge verification problem into minute smaller problem solutions, each of which can then be subjected to near-mathematical or fully mathematical levels of behavior verification.”

This incremental-proof capability is utterly beyond anything possible with the associated memory model and provides a new path for the future. “Our approach is so astonishingly close ‘out of the box’ to how human reasoning works that even young children can follow and implement the basics using simple, language-like tools. It’s a game changer.”

Yet most amazing of all is the energy efficiency. “Associative memories become exponentially more energy-costly as you increase the number of problems and solutions addressed by a single memory. We short-circuit that explosion and bring back energy cost linearity by creating branching dynamic structures in which each path deals with only one problem and deals with it using the most efficient algorithms known to humankind. It’s truly revolutionary and lets designers focus on optimizing each solution component without worrying about issues outside their expertise. This topical compartmentalization paradoxically allows the entire structure to generalize better than associative approaches by ensuring that each component can rely on the others with maximum trust. It’s a sort of free-market community approach in which every specialty has its niche.

The same free-market, special-niche-optimization approach also enhances security phenomenally. “Just as a shop owner knows best how to safeguard the particulars of their particular shop, developers of special-expertise modules can focus their expertise on making sure nothing damaging makes it past their module. The result is a more distributed, task-specific approach to security.

Another advantage of this AI tech is its leveraging and repurposing of existing computer assets to capture human-like problem-solving and sentience. “There is already a huge community of existing language-like assets that we can repurpose almost immediately to reliably capture human sentience and problem-solving in precise, highly predictable forms. The availability of such quick-start assets vastly increases the reach of our AI tools and the immediacy with which we can deploy them. We can, for example, exploit assets already well-customized to the special interests and training of specific communities.

When asked what the collaboration calls this game-changing new AI technology, the lead developer explained how they addressed naming. “We could not resist using a nicely pronounceable acronym that we feel reflects the power of this approach. It’s Sentient via its almost one-for-one capture of human problem-solving methods, yet, at the same time, it remains powerfully Objective by replacing the variability and uncertainty of associate memory approaches to sentience capture with the mathematically verifiable specificity of its free-market-like components. At the market level, our approach is Functionally Transformative in the sense of allowing, for example, a smartphone user to download an incredibly efficient AI package that does what they need when they need it, all with maximum locality and security. Put those letters together, and you get a gentle name that nicely reflects how this AI tech matches and conforms to the needs of each user.”

“Finally, we want folks to think of this new AI tech not as some remote server farm capability but as something more like locally manufactured tools or even special-purpose pottery — wares — customized to their particular market needs.”

“We call it software.”

References

- [1] T. Bollinger, *New AI Tech Demonstrates Massive Improvements Over GenAI*, LinkedIn **2024**, 0818 [Aug. 18] (2024). <https://www.linkedin.com/pulse/new-ai-tech-demonstrates-massive-improvements-over-genai-bollinger-pmqpe>

