

## Distributed Confidence — From Consistency to Social Intelligence

When I think about intelligence, I generally imagine something consistent — confident, stable, reliable. When I ask AI a specific question, I usually expect them to sound sure, to give us one clear answer. But human wisdom doesn't really work like that.

In our everyday decisions — in teams, in families, in classrooms — we rarely trust people because they all say the same thing. We trust them because we can see their differences, and how those differences are coordinated. I don't know how it feels for others when everyone stays silent and offers no objections and questions during a presentation, but if it were me, I'd probably feel a bit uneasy.

Someone is bold. Someone is cautious. Someone plays the mediator. That dynamic—between assertion, doubt, and reflection—is what makes a group feel intelligent and alive.

So I started wondering: if human trust and wisdom emerge from diversity rather than uniformity, what might happen if we designed AI systems that embrace difference instead of smoothing it away?

Today, generally speaking, most AI systems aim for what we call epistemic transparency — they try to explain why they reached a conclusion. But what if transparency wasn't just cognitive, but social? What if AI could reveal not only its reasoning, but also the relationship between different viewpoints within it — between certainty and hesitation, agreement and dissent?

That's where my idea of Distributed Confidence comes from. Instead of treating confidence as a fixed trait of one model, it sees confidence as a social signal, distributed across multiple agents or perspectives.

Imagine this: instead of one chatbot, you talk to three. One speaks with confidence. Another is skeptical. A third balances the two. Each gives you a slightly different answer, tone, and level of certainty. You, as a human, begin to think differently — not by following one of them, but by navigating between them. In a way, this parallels what fairness researchers call *difference awareness* —the idea that fairness doesn't come from treating everyone the same, but from recognizing when differences actually matter.

This idea builds on several lines of recent work.

When AI expresses strong confidence, people tend to unconsciously align their own confidence with it — even after the AI is gone, as recent studies have shown. And when multiple AIs speak together, people begin to treat them less like tools and more like a

social group. Other research even suggests that AI can help mediate human disagreement, enabling more collective forms of reasoning.

If we put these insights together, a new question emerges: Could AI itself become socially intelligent — not by removing disagreement, but by structuring it?

I see Distributed Confidence as a step toward that vision. It's not just about making AI more expressive, but more plural. A system where confidence is role-based and relational — where the “assertive” agent, the “skeptical” one, and the “reflective” one together make thinking visible.

Such systems could reshape how we use AI in practice. In decision support, distributed confidence might help users understand risk, not just outcome. In education, it might train students to think critically by engaging with multiple epistemic voices. In AI governance, it could make responsibility more legible — when disagreement itself becomes a form of accountability.

Distributed Confidence for me is more like a question I'm still exploring, about what happens when confidence itself becomes social, not just statistical.

Maybe the goal isn't to make AI perfectly consistent, but to let it disagree with itself in useful, transparent ways. Because perhaps what we really need is not only a smarter AI — but also an AI that knows when to be sure, when to hesitate, and when to listen.