Multilayered AI Architectures

Building a Collection of Interconnected System Prompts for Advanced Reasoning Capabilities

Nick Goldstein — 2025

What is a Multilayered AI Architecture?

And how can it supercharge the power of your app?

- If one prompt takes an input, runs it through a series of filters and rules and fundamentally transforms the input data then outputs it to you, multiple coordinated prompts compound those transformations substantially

- The separation of concerns between AI layers not only makes these systems more manageable, but it helps avoid confusing the AI with a million tasks, bolstering performance for the most important functionalities

- For systems that are aiming for near-perfect performance or just more consistent results