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Prototype Pseudo-Metacognition Module for AI Reasoning

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Abstract: A prototype pseudo-metacognition module (MM) is presented. It consists of various presets, which have been enhanced for this paper, as well as a newly presented construct. Architecturally, this bespoke MM diverges from a prototypical quasi-Mixture of Experts (MoE) approach (e.g., a multi-layered LLM atop LLM-type approach). Rather, it incorporates the principles of the Krusden and Konishi findings and utilizes an embodiment approach: instead of a component by component build, it endeavors to weave in considerations for a more intrinsic construct. A Watsohiki-inspired test dataset is formulated, and an Dong-inspired ablation study is conducted. Preliminary findings indicate that the proposed MM might actually be more useful than not.

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