

Grounding LLMs in Execution

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Large language models (LLMs) are trained in a very simple way. Lots of properties we assign to them are already present in the training data. In this talk we will review how LLMs are trained today, what are new training paradigms that are aiming at grounding those LLMs in the impact of those generations. In the context of code generation, this is for instance grounding the LLM with the feedback of executing its generated code. For Lean proofstep prediction we can use tactics execution feedback similarly. We believe closing the loop between “open” generation and “grounding” with more formal system can bridge the gap between informal and formal LLM usages.

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