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Will There Be a Superhuman AI Mathematician?

Skepticism towards the idea of a superhuman AI mathematician is often rooted in two beliefs: that AI is limited by its human-created training data, and that foundational ideas like Gödel's Theorem or NP-completeness present insurmountable barriers.

This talk will question these views by surveying recent advances in AI self-improvement, which enable models to generate novel data and discover knowledge beyond their initial training.