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Artificial General Intelligence: Are We There Yet?

Abstract: Achieving artificial general intelligence (AGI), i.e., developing intelligent systems whose performance is at par with humans, is the holy grail of AI. Significant research advances have been made that seem to get us closer to this goal. With the advent of large language models---systems such as ChatGPT---it seems

that we may be knocking at the door of AGI. We will discuss the extraordinary capabilities of such large language models, as well as their limitations. We will present our assessment regarding how close we are to AGI, and how we can fill the remaining gap.

Bio: Gopal Gupta is Professor of Computer Science at the University of Texas at Dallas and co-director of its Center for Applied AI and Machine Learning. From 2009 to 2020, he served as head of the CS department. His areas of research interest are in automated reasoning, computational logic, and explainable AI. He has published extensively in these areas. His group has also authored many software systems, several of which are publicly available. His current research is focused on automating commonsense reasoning with the goal of achieving artificial general intelligence (AGI). To reach this goal his lab has developed several advanced reasoning systems and applied them to solving practical problems in AI. His lab has also developed explainable/interpretable AI systems. His research work has also resulted in commercial software systems that have formed the basis of start-up companies. He has won several best-paper awards as well as the ICLP 2016 test-of-time award. Recently his research group was selected to compete in the 4th Amazon Alexa Prize Socialbot Challenge for 2020-2021. His research is currently supported by the National Science Foundation, DARPA, and by industry. He obtained his MS & PhD degrees from UNC Chapel Hill and his B.Tech. in Computer Science from IIT Kanpur, India.