

Kartik Talamadupula

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Education

Ph.D. **Computer Science**, *Arizona State University*, 2014.

B.S. **Computer Science**, *Arizona State University*, 2007, *Summa cum Laude*.

Professional Experience

2024–Present **Head of AI**, *Wand AI*.

- Leading AI for Wand's platform for intelligent enterprise systems
- Driving AI research in areas such as reinforcement learning, multi-agent systems, and machine learning personalization
- Developing autonomous agents and architectures capable of transforming enterprise operations and enhancing human-agent collaboration
- Collaborating cross-functionally to translate cutting-edge AI research into impactful business solutions

2023–2024 **Director of AI Research**, *Symbl.ai*.

- Led AI efforts for the Symbl platform
- Collaborated cross-functionally (product, engineering, sales) to develop AI roadmap
- Augmented CTO to accelerate company objectives (ARR, logos, infrastructure)
- Built programs for external community and research partnerships

2022–2023 **Senior Research Scientist, Watson Orchestrate**, *IBM Research*.

- Led AI infusions into IBM Watson Orchestrate and WatsonX
- Communicated with stakeholders and executed feature delivery from research into product

2021–2023 **Research Science Manager, AI Composition Lab**, *IBM Research*.

- Managed multi-disciplinary team (people manager) of AI researchers and engineers
- Delivered AI infusions into IBM Watson Assistant

2020–2022 **Research Scientist, Technical Lead**, *IBM Research*.

- Led development and growth of [IBM's Command Line AI \(CLAI\)](#) open source product
- Applied AI techniques to business process automation (BPA)

2018–2020 **Research Scientist, Challenge Lead**, *IBM Research*.

- Conducted research to enhance NLP systems with new knowledge manipulation methods
- Used external knowledge graphs to increase accuracy of downstream NLP tasks

2014–2018 **Research Staff Member**, *IBM T.J. Watson Research Center*.

- Implemented reinforcement learning methods to improve conversation and dialog tracking
- Added AI planning and decision-making support to human-agent systems

Publications & Patents

A comprehensive chronological list is available on [Google Scholar](#).

Honors and Awards

- 2021 AAAI Senior Member
- 2021 Best Senior Program Committee (SPC) Member Award, AAAI
- 2020 Nominee, AAAI Executive Council
- 2018 Best Paper Award, MRQA Workshop at ACL
- 2018 Runner Up, Best Technical Demonstration Award, ICAPS
- 2018 Best Technical Demonstration Award, AAAI
- 2013 University Graduate Fellowship Award, Arizona State University
- 2008–2010 Science Foundation Arizona (SFAz) Fellow
- 2008 Honorable Mention, CRA Outstanding Undergraduate Student Awards
- 2008 Department of Computer Science Distinguished Undergraduate Senior Award
- 2008 Fulton Undergraduate Research Initiative (FURI) Fellow

Skills

- AI Research Machine Learning, Natural Language Processing (NLP), Reinforcement Learning, AI4Code, Knowledge Graphs, Command Line Automation, Automated Planning
- Soft Skills Team Leadership, Cross-functional Collaboration, Executive Leadership

Selected Projects

- [Nebula LLM Development](#) Led the development of Symbbl.ai's flagship AI product.
- [AI for IBM Automation](#) Implemented AI techniques to adapt IBM Automation to low-code/no-code.
- [Project CLAI](#) Led development and growth of open-source *Command Line AI* product.

Research Experience

- Published Conferences AAAI, AISTATS, ICLR, CVPR, UAI, ACL, NAACL, EMNLP, ICASSP, ICAPS, HRI, IUI, IROS, IAAI, ACS, ICWSM, CIKM, EACL, WebScience, HCOMP
- Workshops [KR2ML 2020](#), [KBRL 2020](#), [RCQA 2020](#), [KR2ML 2019](#), UIBK 2019, [RCQA 2019](#),
Organized [SPARK 2019](#), [SPARK 2018](#), HAAI-17, [SPARK 2017](#), Closing the Cognitive Loop 2016
- Tutorials Human-in-the-Loop Planning and Decision Support, AAAI 2015.

Professional Memberships

- AAAI [Senior Member](#), Association for the Advancement of Artificial Intelligence (AAAI)
- ACM Applied AI Officer, [Association for Computing Machinery \(ACM\)](#) SIGAI
- IEEE Member, IEEE Computer Society