Ishan S. Khare

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Education

Stanford University Jan 2024 – Mar 2026
M.S. Computer Science *Stanford, CA*

- **Teaching Assistant:** CS 238 (Graduate AI) & CS 124 (Undergrad Natural Language Processing).
- **Selected Coursework:** Machine Learning (ML), Statistical Inference, Applied Matrix Theory, Continuous Mathematical Methods for ML, Information Theory, Computer Vision with Deep Learning, NLP with Deep Learning, Deep Reinforcement Learning, ML from Human Preferences, Parallel Computing.

Stanford University Sep 2021 – Jun 2025
B.S. Computer Science (with distinction) *Stanford, CA*

- **GPA:** 4.04/4.0 with *Tau Beta Pi* and *Phi Beta Kappa* graduating honors.
- **Activities:** Stanford ACM Officer, Undergrad Research Association Board Member.

Experience

Stanford Artificial Intelligence Lab Dec 2023 – present
Machine Learning Researcher *Stanford, CA*

- Research under the guidance of Prof. Chris Ré as part of the HazyResearch group.
- Co-authored 2 papers at *NeurIPS* 2024 and 1 paper at *ICLR* 2026.
- Focused on developing efficient, interpretable methods for large language models with three core directions: Benchmarking & Evaluation, Model Routing, System Design.

Nimbic AI, Inc. Dec 2024 – Dec 2025
Founder and CEO *San Francisco, CA*

- Accepted to Y Combinator Spring 2025 batch (< 1% acceptance) and received $500k investment.
- Scaled AI-powered documentation platform from zero to $66K ARR within 4 weeks of launch.

IMC Financial Markets Jun 2024 – Aug 2024
Quantitative Trader Intern *Chicago, IL*

- Built a deep learning architecture for trading 0dte index options on the market making desk.
- Collaborated with traders and PhD researchers on novel trading strategy development.
- Learned options theory, market making, trades analysis, systematic and manual mock trading.

Stanford CS Theory Group Jun 2023 – Dec 2023
Algorithms Research Assistant *Stanford, CA*

- Advised by Profs. Aviad Rubinstein & Moses Charikar during CURIS research program.
- Researched approximation algorithms for k-means clustering.
- Contributed to LMP relaxation framework achieving improved approximation ratio for k-means.

Publications

- S. He, A. Narayan, **I.S. Khare**, C. Ré, S. Linderman, D. Biderman. "An Information Theoretic Perspective on Agentic System Design." *International Conference on Learning Representations (ICLR)* 14 (2025).
- N. Guha, M.F. Chen, T. Chow, **I.S. Khare**, C. Ré. "Smoothie: Label Free Language Model Routing." *Advances in Neural Information Processing Systems (NeurIPS)* 37, 127645–127672 (2024).
- M. Wornow, A. Narayan, B. Viggiano, **I.S. Khare**, . . . , C. Ré. "WONDERBREAD: A benchmark for evaluating multimodal foundation models on business process management tasks." *Advances in Neural Information Processing Systems (NeurIPS)* 37, 115963-116021 (2024).
- **I.S. Khare**, N.J. Szymanski, D. Gall, R.E. Irving. "Electronic, optical, and thermoelectric properties of sodium pnictogen chalcogenides: A first principles study." *Computational Materials Science* 183, 109818 (2020).

Honors and Awards

Citadel Datathon Competition (top 24 team in world); Research Science Institute Scholar (top 54 in USA); American Invitational Math Exam (AIME) Qualifier; Regeneron Science Talent Search Scholar; U.S. Chemistry Olympiad National Finalist; Coca-Cola Scholar; Coolidge Senator; National Merit Scholar; Eagle Scout with Palm (< 2% of scouts)