Ishan S. Khare

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Education

Stanford University

B.S./M.S. Computer Science

- GPA: 4.0/4.0, Tau Beta Pi Engineering Honor Society
- Selected Coursework: Machine Learning, Artificial Intelligence, Decision Making Under Uncertainty, Natural Language Processing, Computer Vision, Statistical Inference, General Game Playing, Continuous Mathematical Methods, Modern Algorithms, Applied Matrix Theory, Combinatorics
- Activities: Association of Computing Machinery (Officer), Undergrad Research Association (Executive Team)

EXPERIENCE

Stanford Artificial Intelligence Lab	Dec 2023 - present
Graduate Machine Learning Intern	Stanford, CA
• Research under the guidance of Prof. Christopher Ré as part of HazyResearch.	•
• Two accepted papers at Neural Information Processing Systems (NeurIPS) 2024 conf	ference:
• "WONDERBREAD: A Benchmark for Evaluating Multimodal Foundation Models or	n Business Process
Management Tasks." (arxiv.org/abs/2406.13264).	
• "Smoothie: Label Free Language Model Routing." (arxiv.org/abs/2412.04692).	
IMC Financial Markets	Jun 2024 – Aug 2024
Quantitative Trading Intern	Chicago, IL
• Learned options theory, market making, trades analysis, systematic and manual mock	k trading.
• Completing machine learning project for index options VMM (valuation based marke	et making) desk.
Stanford CS Theory Group	June $2023 - Dec 2023$
Algorithms Research Assistant	Stanford, CA
• Was accepted to the Stanford CURIS summer research internship program.	
• Worked on approximation algorithms for k-means clustering under Profs. Moses Cha	rikar and Aviad Rubinstein.
Projects	
 Machine Learning for Linguistics iskhare.github.io/files/CS224N-paper.pdf Methods: RNNs with Attention, fine-tuning transformer-based models, and in-contex Presented work at CS 224N (NLP with Deep Learning) poster session: Link to Poster 	Jan 2024 – Mar 2024 tt learning with GPT-4. r .
 Creating Low-Rank Efficient CNNs iskhare.github.io/files/CS131-paper.pdf Constrained convolution training to rank-n matrices and performed inference on CIF. Reduced parameter count from O(N²) to O(N) and outperformed PyTorch default content. 	Jan 2024 – Mar 2024 AR-10 Dataset. onvolutions for large kernels.
 Statistical Clustering Analysis of Crime Hot-Spots arxiv.org/abs/2306.15987 Developed metrics to identify 'systemic' crime shaped by redlining within all 25 Phila Advanced to the international finals of the Citadel Datathon. 	Mar 2023 – June 2023 adelphia police districts.
 GyML: Smart Fitness Trainer iskhare.github.io/files/GyML-paper.pdf Our work performs pose estimation, exercise classification, and feedback for 60 fitness Presented work at CS 229 (Maching Learning) poster session: Link to Poster. 	Sept 2023 – Dec 2023 s activities.
Honors and Awards	
Stanford Tau Beta Pi, Citadel West Coast Datathon – 3rd place; Research Science Institut	e Scholar; 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

Skills

Technical: Machine Learning, Artificial Intelligence, Deep Learning, Big Data, Data Structures, Algorithms, Python, C, C++, Linux, Bash, PyTorch, CUDA, LaTeX, pandas, SciPy, NumPy, Scikit-learn **Foreign Language**: Can read, write, and speak in Spanish (Seal of Biliteracy) and Marathi