

# ANIMESH JHA

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## EDUCATION

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<b>Stanford University</b>	Sept 2024 – June 2026
MS in Computer Science (AI Specialization)	3.99/4.0
<b>Indian Institute of Technology, Kharagpur</b>	2019 – 2023
Computer Science and Engineering (B.Tech) - Department Rank 3/76, Best Undergraduate Thesis	9.77/10.0

## PUBLICATIONS

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<b>Certified Unlearning for Neural Networks</b>	[PDF] [Code]
Anastasia Koloskova*, Youssef Allouah*, <b>Animesh Jha</b> , Rachid Guerraoui, Sanmi Koyejo	ICML 2025
<b>RL-Guided Data Selection for Language Model Finetuning</b>	[PDF] [Code]
<b>Animesh Jha*</b> , Harshit Gupta*, Ananjan Nandi*	Reliable ML Workshop, NeurIPS 2025
<b>MAEB: Massive Audio Embedding Benchmark</b>	[PDF] [Code]
A Assadi, I Chung, ..., <b>A Jha</b> , ..., N Muennighoff, K Enevoldsen	Under Review ICML 2026
<b>Local NMPC on Global Optimised Path for Autonomous Racing</b>	[PDF] [Code]
<b>Animesh Jha*</b> , Dvij Kalaria*, Parv Maheshwari* et al.	OCAR Workshop, ICRA 2021

## RESEARCH EXPERIENCE

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<b>Efficient and Certified Machine Unlearning</b>   Prof. Sanmi Koyejo   Stanford	August 2024 – Present
<ul style="list-style-type: none"><li>Developed the first certified unlearning mechanism for general neural networks via differentially private post processing</li><li>Using techniques from sketching, algorithmic stability, and compressed sensing to extend certified unlearning to large models</li></ul>	
<b>Compilation for Distributed Databases</b>   Prof. Fredrik Kjolstad   Stanford	April 2025 – December 2025
<ul style="list-style-type: none"><li>Represented relational algebra as tensor algebra, leveraging distributed tensor algebra to enable efficient query execution</li><li>Designed a scheduling interface to optimize query execution and validate compliance with data movement policies</li></ul>	
<b>Robust Distributed Learning</b>   Prof. Simon S. Du   UW   Undergraduate Thesis	2021 – 2023
<ul style="list-style-type: none"><li>Designed and analyzed Byzantine Fault Tolerant algorithms for efficient distributed training with non convex loss functions</li><li>Established lower bounds on the number of iterations for finding <math>\epsilon</math> approximate critical points in the presence of adversaries</li><li>Analyzed how such algorithms can be used for Federated Learning with secure aggregation, using Zero Knowledge Proofs</li></ul>	

## INDUSTRY EXPERIENCE

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<b>Cartesia AI</b>   Intern - Serving Infrastructure   San Francisco	June 2025 – September 2025
<ul style="list-style-type: none"><li>Designed modular task framework to decouple CPU/GPU scaling, optimizing resource utilization &amp; reducing inference costs</li><li>Reduced Batch Speech-To-Text latency by &gt; 75% for long audio (&gt; 1hr) via optimized chunking and in-memory caching</li></ul>	
<b>Rubrik, Inc.</b>   SWE - Platform (Core Infrastructure)   Bangalore	June 2023 – August 2024
<ul style="list-style-type: none"><li>Reduced upgrade time by 45% and saved 120 developer hours daily, through safe parallelization of orchestration steps</li><li>Migrated 10TB/day ETL pipelines from AWS EMR to Kubernetes, boosting throughput by 35% and reducing costs by 67%</li><li>Led hackathon project to develop a managed solution for sensitive data analysis through Intel SGX hardware enclaves</li></ul>	

## SELECTED PROJECTS

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<b>Curriculum Learning for Efficient LLM Reasoning</b>   CS 329A (Self Improving Agents)	Autumn 2025
<ul style="list-style-type: none"><li>Formulated minibatch sampling as Online Convex Optimization, used Mirror Descent for adaptive batches during training</li><li>Finetuned Qwen3 via GRPO and adaptive sampling on MATH, reduced degenerate groups and achieved faster convergence</li></ul>	
<b>RL based Data Selection for Finetuning LLMs</b>   CS 224R (Deep RL)   [Code]	Spring 2025
<ul style="list-style-type: none"><li>Formulated data selection as a Sequential Decision Making problem, learnt policies via PPO to select training subsets</li><li>Achieved accuracy close to full-dataset training while selecting only 5% of the original data, reducing training time by <math>2 \times</math></li></ul>	

## ACHIEVEMENTS

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- Secured All India Rank **60** in the **Kishore Vaigyanik Protsahan Yojna** (SA, 2017) conducted by Government of India
- Awarded the **National Talent Search Examination Scholarship** (2017) by the Government of India.
- National Finalist** (among the top 5 teams out of 25000+ participants) at the **Uber Hacktag 1.0 2021**.
- ACM ICPC Regionalist: Qualified for and placed **44th** out of 7000+ teams at the Gwalior Pune ICPC Regionals 2020.