

ANIMESH JHA

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EDUCATION

Stanford University

MS in Computer Science (AI Specialization)

Sept 2024 – June 2026

3.93/4.0

Indian Institute of Technology, Kharagpur

Computer Science and Engineering (B.Tech) - Department Rank 3/76, Best Undergraduate Thesis

2019 – 2023

9.77/10.0

PUBLICATIONS

Certified Unlearning for Neural Networks

Anastasia Koloskova*, Youssef Allouah*, **Animesh Jha**, Rachid Guerraoui, Sanmi Koyejo

[\[PDF\]](#) [\[Code\]](#)

ICML 2025

RL-Guided Data Selection for Language Model Finetuning

Animesh Jha*, Harshit Gupta*, Ananjan Nandi*

[\[PDF\]](#) [\[Code\]](#)

COML Workshop NeurIPS 2025

Local NMPC on Global Optimised Path for Autonomous Racing

Animesh Jha*, Dvij Kalaria*, Parv Maheshwari* et al.

[\[PDF\]](#) [\[Code\]](#)

OCAR Workshop ICRA 2021

RESEARCH EXPERIENCE

Efficient and Certified Machine Unlearning | Prof. Sanmi Koyejo | Stanford

August 2024 – Present

- Developed the first certified unlearning mechanism for general neural networks via differentially private post processing
- Using techniques from sketching, algorithmic stability, and compressed sensing to extend certified unlearning to large models

Compilation for Distributed Databases | Prof. Fredrik Kjolstad | Stanford

April 2025 – Present

- Represented relational algebra as tensor algebra, leveraging distributed tensor algebra to enable efficient query execution
- Implementing a scheduling interface to optimize query execution and validate compliance with data movement policies

Robust Distributed Learning | Prof. Simon S. Du | UW | Undergraduate Thesis

2021 – 2023

- Designed and analyzed Byzantine Fault Tolerant algorithms for efficient distributed training with non convex loss functions
- Established lower bounds on the number of iterations for finding ϵ approximate critical points in the presence of adversaries
- Analyzed how such algorithms can be used for Federated Learning with secure aggregation, using Zero Knowledge Proofs

INDUSTRY EXPERIENCE

Cartesia AI | Intern - Serving Infrastructure | San Francisco

June 2025 – September 2025

- Designed modular task framework to decouple CPU/GPU scaling, optimizing resource utilization & reducing inference costs
- Reduced Batch Speech-To-Text latency by $> 75\%$ for long audio ($> 1\text{hr}$) via optimized chunking and in-memory caching

Rubrik, Inc. | SWE - Platform (Core Infrastructure) | Bangalore

June 2023 – August 2024

- Reduced upgrade time by 45% and saved 120 developer hours daily, through safe parallelization of orchestration steps
- Migrated 10TB/day ETL pipelines from AWS EMR to Kubernetes, boosting throughput by 35% and reducing costs by 67%
- Led hackathon project to develop a managed solution for sensitive data analysis through Intel SGX hardware enclaves

SELECTED PROJECTS

Curriculum Learning for Efficient LLM Reasoning | CS 329A (Self Improving Agents)

Autumn 2025

- Formulated minibatch sampling as Online Convex Optimization, using Mirror Descent for adaptive batches during training
- Finetuned Qwen3-8B via curriculum-aware GRPO pipeline on Math and DeepMath, outperforming random sampling

RL based Data Selection for Finetuning LLMs | CS 224R (Deep RL) | [\[Code\]](#)

Spring 2025

- Formulated data selection as a Sequential Decision Making problem, learnt policies via PPO to select training subsets
- Achieved accuracy close to full-dataset training while selecting only 5% of the original data, reducing training time by $2\times$

ACHIEVEMENTS

- 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.

TECHNICAL SKILLS

- **Languages:** C++, Python, Go, C, \LaTeX , Scala, Verilog
- **Libraries:** Jax, Pytorch, Numpy, vLLM, verl, OpenMP, Eigen, Selenium, BeautifulSoup, Pandas, Flask, Scikit-Learn
- **Tools:** Git, ROS, Terraform, Bazel, Docker, Kubernetes, AWS, Azure, Apache Spark, Snowflake, NATS, Blender