

EDUCATION

Carnegie Mellon University

Dec 2025

*Masters of Science in Machine Learning***Courses(PhD):** Deep Reinforcement Learning , Multimodal Machine Learning, Probabilistic Graphical Models, Intermediate Statistics

Birla Institute of Technology And Science (BITS), Pilani

Jul 2022

Bachelors of Engineering, Computer Science and Masters of Science, Economics

WORK EXPERIENCE

Nutanix AI | Machine Learning Intern

San Jose, CA | May 2025 – Aug 2025

- Built a generalist unit test generation agent using an adversarially guided actor-critic system with evolutionary search deployed in a Model Context Protocol (MCP) client-server framework. [ICLR'26 Subm.]
- Achieved +15.6% higher coverage vs. baseline LLMs; also prototyped a deep research agent with bandit-based RAG for dynamic query routing across knowledge sources.

Google DeepMind | Pre Doctoral Researcher: Full-time 2 years

Bangalore, India | Aug 2022 – Jun 2024

- Developed time-series reinforcement learning methods for adaptive intervention in the world's largest maternal health program (3.2M active users) that sends automated health calls to underserved pregnant women.
- Proposed non-Markovian Time-Series Restless Bandits to improve multi-intervention sequencing, boosting content exposure by 57% and reducing dropout by 33%. [AAAI'24, AI Magazine'25]

Harvard University | Research Assistant: Full-time 1 year

Boston, MA | Aug 2021 – Jul 2022

- Investigated interplay between catastrophic forgetting (CF) and OOD generalization using 3D modeling and examined adaptability of continual learning algorithms to continuous domains. [Thesis]
- Demonstrated performance saturation of models with increasing tasks, highlighting limits of adaptability.

Microsoft | Software Development Intern

Hyderabad, India | May 2021 – Jul 2021

- Built an end-to-end service providing ML-based user insights to reporting services of the Playwright tool.

SELECTED PUBLICATIONS AND THESIS

* All works cited are first-author. Full author lists are available on Google Scholar.

- Improving Health Information Access in the World's Largest Maternal Mobile Health Program via Bandit Algorithms. Oral Presentation @ AAAI 2024, AI Magazine 2025. [AAAI'24, AI Magazine'25]
- Analyzing and Predicting Low-Listenership Trends in a Large-Scale Mobile Health Program: A Preliminary Investigation. Oral Presentation @ Data Science for Social Good Workshop, KDD 2023. [KDD-WS'23]
- Continual Learning and OOD Generalization in Continuous Domain Adaptation. [Thesis]
- Inference-Time Adversarial Actor-Critic with Evolutionary Search for Generalist Unit Test Agents. Under Submission @ ICLR 2026. [ICLR'26 Subm.]

SELECTED PROJECTS

- Incentive Mechanisms for LLM-Assisted Textual Data Integrity:** Designing mechanisms to counter LLM-assisted responses in feedback platforms, such as peer reviews. (*Present*)
- Multimodal Reasoning in Text and Videos:** Developed a planner-perceiver system for interpretable step-by-step video and text reasoning. (*Jan - May 2025*)

KEY ACCOMPLISHMENTS AND EXPERIENCES

- Cleared Regional Mathematics Olympiad (RMO); Qualified for Indian National Mathematics Olympiad. [2015]
- Teaching Assistant: CMU - Deep RL, LLM Methods; BITS Pilani - OOP, Database Systems, Econometrics

SKILLS

Programming Languages

Python, C++, Java, R, Stata

Frameworks/Libraries

PyTorch, TensorFlow, Hugging Face, scikit-learn, NumPy, Pandas, React

AI/ML Areas

Reinforcement Learning, Multimodal ML, LLMs, Generative AI, Diffusion Models