Nikitha Srikanth

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Education

Carnegie Mellon University Dec 2026
M.S. in Machine Learning and NLP (MIIS), Language Technologies Institute *Pittsburgh, PA*
Current Coursework: Intro to Deep Learning, Deep Reinforcement Learning and Control, Generative AI for Biomedicine

R.V. College of Engineering Sep 2022
B.E. Computer Science and Engineering, GPA: 9.27/10 *Bangalore, India*

Internships and Work Experience

Adobe Systems India Pvt. Ltd.

Machine Learning Engineer *May 2023 – July 2025 | Bangalore, India*

- Developed a pipeline to iteratively build brand, campaign, and creative contexts from ads using LLM judges, reducing taxonomy creation time from months to days.
- Led intern projects for multi-label ad copy classification through LoRA fine-tuning; explained model classifications by identifying phrases influencing shifts from low- to high-performing labels.

Machine Learning Research Associate *July 2022 – May 2023 | Noida, India*

- Deployed a chat summarization pipeline for Adobe Dynamic Chat; integrated hallucination detection into multiple internal workflows (US20250103822A1).
- Proposed personalized example generation for improved accessibility (NeurIPS 2023 Poster, US20250148192A1).
- Built asset search suggestions for Adobe Express, increasing user retention by 15%.

Research Intern *Jan 2022 – July 2022 | Remote (India)*

- Explored clarification of intent in enterprise search without sufficient user logs; devised a solution recovering 33% of unseen search logs.

Research Intern *May 2021 – July 2021 | Remote (India)*

- Developed a hyperbolic-space algorithm for coherent hierarchical topic modeling and labeling (ACL 2023 Findings, US11960520B2, NeurIPS 2021 Poster).

Research

Interpretable Evaluation of Language Model Training Trajectories August 2025 - present
Advised by Graham Neubig *Pittsburgh, PA*

- Extending prior work on automating discovery of fine-grained performance differences between language model checkpoints

A Mechanistic Comparison of Representations of Deep RL Algorithms Nov 2025 - present
Deep RL Course Project *Pittsburgh, PA*

- Using tools such as Sparse Autoencoders (SAEs) to determine whether representation properties correlate with generalization or learning efficiency

Skills

Programming Languages: Advanced - Python; Basic - Java, C++, C
Libraries: Advanced - PyTorch, NumPy, Pandas; Basic - Tensorflow

Publications

- Contextual Alchemy: A Framework for Enhanced Readability through Cross-Domain Entity Alignment. NeurIPS 2023 Workshop on Machine Learning for Creativity and Design, Dec 2023
- HyHTM: Hyperbolic Geometry-based Hierarchical Topic Model. Findings of the Association for Computational Linguistics: ACL 2023, Jul 2023
- Interpretable & Hierarchical Topic Models using Hyperbolic Geometry. NeurIPS 2021 WiML Workshop 1, Dec 2021