Nikitha Srikanth

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EDUCATION

Carnegie Mellon University — Aug 2025 - Dec 2026
M.S. Intelligent Information Systems — *Pittsburgh, PA*

R.V. College of Engineering — Aug 2018 - Sept 2022
B.E. Computer Science and Engineering, GPA: 9.27/10 — *Bangalore, India*

INTERNSHIPS AND WORK EXPERIENCE

Machine Learning Engineer — May 2023 - July 2025
Adobe Systems India Pvt. Ltd. — *Bangalore, India*
- Developed a pipeline to iteratively build brand, campaign, and creative contexts from ads using LLM judges that could save months of time spent on a custom taxonomy for each brand
- Led intern projects for multi-label classification of ad copies through Low Rank Adaptation fine-tuning; Explained model classification to enable performance-driven editing of ad copies by identifying phrases influencing shifts from a low to high performing label

Machine Learning Research Associate — July 2022 - May 2023
Adobe Systems India Pvt. Ltd. — *Noida, India*
- Deployed a chat summarization pipeline for Adobe Dynamic Chat; Adapted a hallucination detection pipeline integrated into multiple workflows across Adobe; US Patent US20250103822A1
- Ideated an approach to make online reading experience more accessible and relatable through personalized examples; NeurIPS 2023 Workshop Poster; US Patent US20250148192A1
- Recommended asset search suggestions for Adobe Express that brought about 8% more traffic in the first week with users being 15% more likely to export creations and stick through the whole workflow.

Research Intern — Jan 2022 - July 2022
Adobe Systems India Pvt. Ltd. — *Remote, India*
- Explored clarification of intent in enterprise search without sufficient user logs; Devised a solution that quantifies desirable properties of search suggestions and recovers 33% of unseen search logs

Research Intern — May 2021 - July 2021
Adobe Systems India Pvt. Ltd. — *Remote, India*
- Researched and developed an algorithm using hyperbolic space to aid more coherent, diverse, and granular hierarchical topic modeling and labeling; ACL 2023 Findings Paper; NeurIPS 2021 Workshop Poster; US Patent US11960520B2

PROJECTS

Analysing the Impact of COVID-19 on Food Security — June 2020 - Aug 2020
- Identified and visualised vulnerable population clusters for food insecurity during COVID-19 with data from household surveys, grocery store mobility, and daily cases

Detecting COVID-19 onset from Wearables — May 2020 - July 2020
- Trained LSTMs on publicly available wearables data for detecting COVID with 87% test accuracy and utilised model explanations to identify early heart rate variability markers important for the model

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