

Sathyanarayanan Ramamoorthy

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EDUCATION

Carnegie Mellon University - School of Computer Science (MS) <i>Master of Computational Data Science at Language Technologies Institute (LTI) - (GPA: 3.95)</i>	Pittsburgh, USA 08/22 – 05/24
Indian Institute of Information Technology (B.Tech) <i>Bachelor of Technology in Computer Science and Engineering (CGPA: 9.13/10)</i>	Sricity, India 07/18 – 06/22

INDUSTRY EXPERIENCE

Software Engineer - Full Time <i>Google, Search Ads Infrastructure</i> <ul style="list-style-type: none">Working in the Search Ads organization.	04/25 – Present Mountain View, CA, USA
Machine Learning Engineer - Full Time <i>JPMorgan & Chase, Customer Banking Personalization & Interaction</i> <ul style="list-style-type: none">Worked on personalizing the Chase Banking Application.	01/25 – 03/25 Palo Alto, CA, USA
Applied Scientist Intern - Internship <i>Amazon Alexa, Invocation Science</i> <ul style="list-style-type: none">Part of the wakeword invocation team under the Amazon Alexa Perceptual Technologies Organization.Performed data augmentation with synthetic data using generative methods to support speech technology development, particularly with the help of Large Language Models (LLMs), ASR and TTS Models.Implemented a pipeline for synthesis and trained, researched, evaluated and analyzed wakeword models.Improved the existing wakeword baseline model performance by 28%.	05/23 – 08/23 Cambridge, MA, USA

ACADEMIC/RESEARCH EXPERIENCE ([SCHOLAR PROFILE](#))

Research Associate - Full Time <i>Carnegie Mellon University at LTI, Advisor: Prof. Graham Neubig</i> <ul style="list-style-type: none">Worked on Multimodal Multilingual language-agnostic entity linking problems.Developed a system, with dataset, baseline methods and work under review at TACL 2024.Researched Vision-Language diffusion models through image transcreation, co-authored work accepted at EMNLP Main 2024 (Link) and got best paper award (Link).Contributed to the open-source multilingual multicultural multimodal LLM project called Pangea (Link)	01/24 – 12/24 Pittsburgh, PA, USA
Research Intern - Internship <i>Artificial Intelligence Institute at University of South Carolina</i> <ul style="list-style-type: none">Developed a BERT based deep learning approach, for multimodal joint embeddings.Worked on a GPT-based medical chatbot and enhanced its capability through context-driven learning.Achieved this through context-driven learning using Knowledge Graphs, Coreference Resolution, NER.	01/22 – 06/22 Columbia, USA
Research Intern - Internship <i>Wipro Artificial Intelligence Labs</i> <ul style="list-style-type: none">Proposed an approach to generate multimodal vision-text joint embeddings using transformer models.Achieved SOTA on meme emotion analysis task and presented the work at AAAI 2022 (Link).Was an Organizing Committee Coordinator for the workshop, DE-FACTIFY, co-located at AAAI 2022.	06/21 – 12/21 Bangalore, India

SELECT PUBLICATIONS

- Nethra Gunti, Sathyanarayanan Ramamoorthy, Parth Patwa and Amitava Das, [“Memotion Analysis through the Lens of Joint Embedding \(Student Abstract\) ”](#), In Proceedings of the **AAAI** Conference on Artificial Intelligence, 2022.
- Simran Khanuja, Sathyanarayanan Ramamoorthy, Yueqi Song, Graham Neubig, [“An image speaks a thousand words, but can everyone listen? On image transcreation for cultural relevance”](#), In Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing (**Best Paper Award at the conference**)