Soorya Veeravalli

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EDUCATION

University of Massachusetts Amherst, *MS in Computer Science* | USA GPA: 4.0/ 4.0 Jan 2025 - Dec 2026

Course work: Advanced NLP, Data Science

International Institute of Information Technology Hyderabad, *B.Tech in Computer Science* July 2017 - Jun 2021

Course work: Data Structures and Algorithms, Database systems, Statistical Methods in AI, Computer Vision, Computer Networks, Distributed Systems

RESEARCH EXPERIENCE

Research Assistant, *Advisor: Prof. Hong Yu* | BioNLP lab, UMass Amherst June 2025 - Present

- Developing methods to reduce hallucination in medical text generation by training LLMs to produce citation-aware outputs grounded in retrieved biomedical evidence.
- Designing a retrieval-augmented generation (RAG) framework enabling LLMs to generate clinically coherent statements based on context and cite relevant supporting literature.

Research Assistant, *Advisor: Prof. Avinash Sharma* | CVIT lab, IIIT Hyderabad May 2019 - Apr 2021

- Mainly worked on different seq-to-seq architectures which are adapted to tackle problems of human motion prediction and generation.
- Proposed a novel approach employing Bidirectional LSTMs to generate complex long-term(6000ms) human motion trajectory across diverse activity classes.

PUBLICATIONS

[1] Battan Neeraj, Agrawal Yudhik, Rao Sai Soorya, Goel Aman, and Sharma Avinash. Glocalnet: Class-aware long-term human motion synthesis. *IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2020.

PROJECTS

Model Editing for Debiasing LLMs | Adv. NLP | UMass Amherst Jan 2025 - May 2025

- Developed a debiasing strategy that intervenes in the internal representations of large language models through projection based model editing. Used PyTorch and Huggingface for implementation.
- Leveraged causal tracing to identify and correct biased representations with minimal performance loss.

View Adaptive Neural Networks for Action Recognition | Computer Vision | IIIT Hyderabad Jan 2020 - May 2020

- Implemented a view adaptation module within RNN based architectures to normalize skeleton sequences to a consistent viewpoint prior to action classification.
- Enhanced recognition robustness by jointly learning view normalization and action prediction.

PROFESSIONAL EXPERIENCE

Microsoft, *Software Engineer 2 (Azure Cloud services)* | Hyderabad, India Jun 2021 - Jan 2025

- Key member of **Azure Native Service** teams for **Datadog** and **Dynatrace**. Instrumental in sustaining continuous growth and achieving an annual Azure revenue exceeding **$100 million.**
- Developed an **easy trial** experience for ISV partners on **Azure**. Ensuring uninterrupted setup for partner-integrated services such as log forwarding and metrics integration. Resulted in heightened **user engagement** (link)
- Developed a scalable **multi-subscription monitoring** for Azure Native ISV solutions, simplifying setup across subscriptions using single resource. Achieved a significant **10x** increase in log-flow growth, enhancing monitoring capabilities.
- Handled **7** services as part of Observability Platform team's common on-call rotation.

SKILLS

Languages	C/C++, Python, C#, Java, GoLang, Typescript, Next.js, CUDA, Bash
Frameworks and Databases	Node.js, .NET, Knockout.js, MySQL, Azure CosmosDB
Tools	Git, Postman, Docker, Kubernetes, Microsoft Power Apps
Cloud computing	Azure Could Services (Databricks, Synapse Analytics, Functions, SQL Server, Data Lake)

ACHIEVEMENTS

- Microsoft Mountain Movers Awarded for delivering exceptional team performance
- Dean's List 2 honoree for Academic Excellence 2019-20 at IIIT Hyderabad
- Attained a remarkable All India Rank of 698 in JEE Mains, a highly competitive entrance exam with over one million candidates.