

Aashutosh A V

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EDUCATION

Georgia Institute of Technology

MS in Computer Science (Specialization: Machine Learning)

Aug. 2025 - May. 2027

Birla Institute of Technology & Science, Pilani

B.E Computer Science (Minor in Data Science) GPA: 9.08 / 10

Oct. 2021 - Jun. 2025

INTERNSHIPS

Microsoft Research

Research Intern

Jan. 2025 - July. 2025

Bangalore, India

- Co-authored a paper(**Under Review at VLDB, 2026**) on optimizing NoSQL Workloads for CosmosDB
- Filed a **patent** titled A Scalable Quality of Service centric Database Packing Policy System
- Built a system to compile forecasting models into native CosmosDB queries for on-server execution

Yashoda Hospitals

Machine Learning Intern

May. 2023 - Jul. 2023

Hyderabad, India

- Developed RNN-based models for live prediction of body-vital values
- Built pre-processing pipelines to handle noisy time-series ICU Data

RESEARCH EXPERIENCE

ActionGenome - ScenarioCLIP

DFKI Germany; BITS Pilani, Hyderabad

Jul. 2024 - Mar. 2025

- Constructed a dataset extending ActionGenome with scenario-level annotations using VLMs
- Designed a modified CLIP model using contrastive learning for generating scene-understanding embeddings
- **Work done as a part of my Undergraduate Thesis**
- **Currently under review at WACV, 2026**

Narrating For You

BITS Pilani, Hyderabad

Jul. 2024 - Mar. 2025

- Developed a joint learning methodology for audio-video-text inputs for Deepfake Video generation
- **Winning Demo at the RAISE Workshop, 2024**, a workshop for AI and Robotics
- **Published Paper at WACV, 2026**

Latent Flow Diffusion for Deepfake Video Generation

University of North Carolina, Charlotte; BITS Pilani Hyderabad

Feb. 2024 - Apr. 2024

- Incorporated Vision Transformers to Flow Diffusion Techniques for frame-by-frame understanding of the driving image
- **Published Paper at the CVPRW, 2024**

GLoCo (Global-Local Contextualisation for Community Detection)

BITS Pilani Hyderabad

Feb. 2025 - Present

- Designed a GNN Framework that fuses global and local contexts of unweighted graphs for Community Detection
- Implemented a dual view attention mechanism that is beating state-of-the-art baselines in **NMI & Modularity** scores

EEG-Based Emotion Classification

BITS Pilani Hyderabad, Nizam Institute of Medical Sciences

Jul. 2023 - Nov. 2023

- Contributed to NIMS, one of the largest Medical Institutes in India
- Developed a novel CNN-based architecture to classify emotions based on EEG Signals

TECHNICAL PROFICIENCY

Programming: Competitive Programming (Candidate Master @ Codeforces (Best: 1928))

AI/ML: Deep Learning, Machine Learning, Generative AI, Computer Vision, Natural Language Processing, Graph Learning

Other: Probability, Statistics, Time-Series Analysis, Forecasting Models