

# Aashutosh A V

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## EDUCATION

### Georgia Institute of Technology

MS in Computer Science (Specialization: Machine Learning) GPA: 4.0 / 4.0

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

## WORK EXPERIENCE

### C21U, GeorgiaTech

Graduate Research Assistant

Dec. 2025 - Present

Atlanta, United States

- Working on ExplainableAI, Causal Explainability and Multi-year Datasets

### 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 (ALL FIRST/CO-FIRST AUTHOR PAPERS)

### ActionGenome - ScenarioCLIP

DFKI Germany; BITS Pilani

Jul. 2024 - Mar. 2025

- Constructed a synthetic 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**, under review at **CVPR, 2026**

### Narrating For You

BITS Pilani

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

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 - Nov. 2025

- 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

## TECHNICAL PROFICIENCY

**Programming:** Competitive Programming (Candidate Master @ Codeforces (Rating: 1928))

**AI/ML:** Deep Learning, Machine Learning, Generative AI, Computer Vision, Natural Language Processing, Graph Learning, PyTorch, Multimodal Learning, Efficient ML, Graph Learning

**Other:** Probability, Statistics, Time-Series Analysis, Forecasting Models, Distributed Systems, HPC,