Hrishikesh Naveenam

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EDUCATION

The University of Texas at Dallas | Dallas, TX **GPA:** 4.0
B.S. in Computer Science, Minor in Mathematics | **May 2028**

RELEVANT EXPERIENCE

ACM Research UTD | Researcher **Feb 2025 - May 2025**

- Developed and optimized DCGAN architecture to generate realistic synthetic astronomical images, improving anomaly detection metrics (Recall: 0.72, ROC-AUC: 0.85).
- Implemented StyleGAN, fine-tuning pre-trained weights on the Galaxy10 dataset, resulting in high-fidelity image synthesis and enhanced model performance (ROC-AUC: 0.81).
- Enhanced rare-event detection performance by 15% over baseline through GAN-based augmentation strategies.

AIS Mentee Program | Mentee **Feb 2025 - May 2025**

- Collaborated in developing an interactive NBA Playoff simulator, enabling users to generate complete playoff brackets for any NBA team and season from 1995 to 2024.
- Conducted data cleaning and preprocessing in Python on extensive team and player datasets retrieved from the official NBA API.
- Built and optimized predictive classification and regression models using TabNet for enhanced accuracy in analyzing tabular data.

University of Texas at Dallas | Research Intern | Dallas, TX **Jan 2025 -Present**

- Recently joined the Advanced Networks Research Lab
- Working with PhD student to help research Reinforcement Learning algorithms for resource allocation in the network

University of Missouri-Columbia | Research Intern | Dallas, TX **Sept 2023 - January 2024**

- Volunteer Edge Computing at the VIMAN Lab
- Designed and implemented K-means clustering algorithms to group volunteer edge nodes, achieving 84% accuracy in workflow placement.
- Used the Elbow Method to identify optimal cluster configurations based on parameters like CPU, RAM, and storage
- Created detailed visualizations to showcase clustering and allocation results, highlighting trends and patterns critical to workflow optimization - add metrics

PROJECTS

UTD Spots | Personal Project **May 2025**

- iOS app that shows all important spots around UT Dallas campus, including study spots, food spots and hangout areas.

TECHNICAL SKILLS

Programming Languages: Python (Intermediate), C++ (Intermediate), Swift (Intermediate)
Operating Systems: Windows, MacOS