

Anish Nethi

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EDUCATION

The University of Texas at Austin

Aug 2024 - May 2026

Master of Science in Computer Science

CGPA: 4.0/4.0

Research Interests: I am primarily interested in computer vision and its intersection with language and audio, exploring multi-modal approaches to solve perception and reasoning problems, and currently pursuing my thesis under Professor Kristen Grauman

Coursework: Visual Recognition, Scientific Computation in ML/DL, Generative Models in Machine Learning

Mahindra University, École Centrale School of Engineering

Aug 2020 - Jun 2024

Bachelor of Technology in Computer Science and Engineering

CGPA: 8.84/10.0, Rank: 5/214

EXPERIENCE

Amazon Web Services, SDE Intern - AI/ML

May 2025 - Aug 2025

- Developed an MCP server enabling users to create, update, and delete Glue connections through a cli, abstracting away parameter complexity and simplifying data lake connectivity operations

Indian Institute of Technology Guwahati, Research Assistant

Jul 2023 - Jul 2024

- Enhanced the precision of eye tracking in VR setups by 15% by leveraging data models to differentiate saccades and fixations, and mathematical models to generate accurate and natural scanpaths

Damage in Materials and Structures Lab - Arizona State University, Research Intern

May 2023 - Jun 2024

- Researched into incorporating textural elements into pixel clustering, boosting road marking classification accuracy by 20% for real-world deployment

Mahindra University, Research Assistant

Oct 2022 - Oct 2023

- Transformed and featurized time-series forecasting problem to convert it into a regression problem for predicting volcano eruption times. Implemented various regression algorithms, improving prediction accuracy from 58% to 84%

National University of Singapore, Research Intern

Jun 2022 - Jul 2022

- Conducted research on predicting BMI classes from full-body images by developing CNN-based models utilizing PoseNet embeddings, improved classification accuracy by 15%

PUBLICATIONS

BMI Prediction for Full Body Images using PoseNet Embeddings

ICETCI 2023

Detecting DeepFakes: A Deep Convolutional Neural Network Approach with Depth Wise Separable Convolutions

ICETCI 2023

Multiplicative Gaussian Noise Removal using Partial Differential Equations and Activation Functions: A Robust and Stable Approach

ICACS 2023

Cohesive Group Emotion Recognition Using Deep Learning

SNPD 2023

PROJECTS

Language-Guided Reinforcement Learning for Smooth Multi-View Video Transitions

Feb 2025 - May 2025

An RL framework for optimizing camera view selection in multi-view ego-exo instructional videos

- Designed a composite reward function balancing informativeness, transition smoothness, and narrative alignment, improving temporal coherence in view selection
- Implemented and compared PPO, A2C, and DQN, with PPO achieving the most balanced switching behavior (10.6% switch rate), aligning transitions with narrative progression

Predicting Naturalistic Eye Scanpaths from Saliency Maps

Jul 2023 - Jul 2024

A solution for predicting the natural path an eye would trace when viewing a scene, simulating a person's gaze

- Developed mathematical models for gaze prediction by integrating visual saliency maps and time-coordinated data, achieving 83% accuracy in simulating eye movements, and improved computational overhead

Data Cleaning using LLMs

Sep 2024 - Dec 2024

A pipeline using Intel's Neural-Chat LLM for automated error detection and correction in structured datasets

- Achieved an 89.6% error correction accuracy on structured datasets by systematically integrating metadata and refining LLM prompt engineering for improved anomaly detection and correction

TECHNICAL SKILLS

Languages: Python, C/C++, Java, MATLAB, HTML, CSS, SQL, JavaScript

AI & Data Skills: TensorFlow, PyTorch, Scikit-Learn, NumPy, Pandas, Matplotlib, OpenCV, Recommender Systems

Databases & Big Data: MySQL, SQLite, PostgreSQL, Hadoop, Apache Spark, Hadoop MapReduce

Development & Design Tools: Jupyter, Visual Studio, Microsoft Azure, Git, Figma, LaTeX