

Arnav Devalapally

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EDUCATION

University of Michigan

M.S. in Computer Science and Engineering

Ann Arbor, MI

Dec 2026

- GPA: 4.0/4.0

• Coursework: Advanced Computer Vision, Robot Kinematics & Dynamics, Control Systems, Microarchitecture

K L University

B.Tech (Honors) in Artificial Intelligence and Data Science

Hyderabad, India

May 2025

- GPA: 9.8/10.0 (Silver Medalist)

SKILLS

Languages: Python, C++, MatLab, Bash

Systems and Tools: ROS2, CUDA, Linux, Git, Docker, PostgreSQL, SLURM, Simulink

Perception: PyTorch, OpenCV, ViT, NeRF, domain adaptation, sensor fusion, occupancy grid, point cloud, depth camera

WORK EXPERIENCE

Machine Learning Research Intern

IIT Hyderabad / Advisor: Vineeth N B

Hyderabad, India

May 2024 - Feb 2026

- Conducted research in domain adaptation for deep learning for perception (ViT, ResNet) under distribution shift.
- First-author paper accepted to **CVPR 2026**.

Computer Vision Research Intern

IIT Hyderabad / Advisor: Ravi Kiran S

Hyderabad, India

May 2023 - July 2023

- Developed classical and deep learning models (ViT, CNN, U-Net) for segmentation in challenging visual conditions.
- Evaluated state-of-the-art binarization model, improving performance via Focal Loss (+1.3 PSNR)

AI Consultant

Payintelli

Hyderabad, India

June 2025 - Aug 2025

- Developed and evaluated fraud detection ML models on 1M+ real-world transactions at production scale.
- Implemented a client-centric static rule base and decision thresholds to manage the recall-false positive tradeoff.
- Delivered production-ready APIs integrated with frontend dashboards for performance monitoring.

Business Intelligence Intern

PXP Financial

Hyderabad, India

Feb 2025 - June 2025

- Trained ML-based classification models for deployment-critical systems under performance and latency constraints.
- Built reusable queries and reporting pipelines to track performance drift and trigger retraining.

PUBLICATIONS

- **Devalapally, A., Jain, P., Srinivas, K., Balasubramanian, V.N.,** Source Models Leak What They Shouldn't: Unlearning Zero-Shot Transfer in Domain Adaptation Through Adversarial Optimization, CVPR 2026 (**Accepted**).
- **Devalapally, A., Valluri, G.,** A Simple Machine Unlearning Approach Using Elastic Weight Consolidation, International Conference on Recent Trends in AI Enabled Technologies, 2023, doi.org/10.1007/978-3-031-59114-3_1

ACTIVITIES

Computer Vision Team Member

Ann Arbor, MI

University of Michigan Autonomous Robot Vehicle Team (UMARV)

Jan 2026 - Present

- Built sensor calibration and perception tooling to fuse multiple depth-camera inputs (point clouds, occupancy grids) and communicate outputs via ROS2 (rclpy) for downstream planning and control in autonomous vehicle stack.

Founding Member

Team TEQQ Televisors

Hyderabad, India

Jan 2016 - Dec 2020

- Programmed autonomous robots for: (i) task solving (WRO, FLL), (ii) line following (RCJ), (iii) battling (Robofest)
- Won 15+ awards, including 4 world championship titles at Robofest, and best strategy award at First LEGO League.

PROJECT EXPERIENCE

Novel Object View Synthesis (NeRF)

- Built 3D object representations and synthesized novel viewpoints using Neural Radiance Fields (NeRF) in PyTorch for AI vision and high-fidelity 3D scene reconstruction from sparse multi-view images.