

# Arnav Devalapally

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## EDUCATION

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### University of Michigan

Ann Arbor, MI

*M.S. in Computer Science and Engineering*

Dec 2026

- GPA: 4.0/4.0
- Coursework: Advanced Computer Vision, Robot Kinematics & Dynamics, Control Systems, Microarchitecture

### K L University

Hyderabad, India

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

May 2025

- GPA: 9.8/10.0 (Silver Medalist)

## SKILLS

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**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

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### Machine Learning Research Intern

Hyderabad, India

*IIT Hyderabad | Advisor: Vineeth N B*

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

Hyderabad, India

*IIIT Hyderabad | Advisor: Ravi Kiran S*

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

Hyderabad, India

*Payintelli*

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

Hyderabad, India

*PXP Financial*

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

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- **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](https://doi.org/10.1007/978-3-031-59114-3_1)

## ACTIVITIES

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### 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 (rcplpy) for downstream planning and control in autonomous vehicle stack.

### Founding Member

Hyderabad, India

*Team TEQQ Televisors*

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

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### 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.