Sri Akash Kadali

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Education

University of Maryland, College Park, United States CGPA: 3.67/4
Master of Science in Applied Machine Learning *August 2024 - May 2026*

- **Relevant Coursework:** Machine Learning, Deep Learning, Computer Vision, Robotics, Artificial Intelligence, Data Structures, Algorithms, 3D Computer Vision

Indian Institute of Information Technology, Vadodara, India CGPA: 8.78/10
Bachelor of Technology in Computer Science and Engineering *December 2020- June 2024*

- **Relevant Coursework:** Structure from Motion (SFM), Projective Geometry, Python Programming, C++ Programming, Data Science, Statistical Learning, Mathematics for Computer Science, Software Engineering

Skills

Deep Learning, 3d vision, Object recognition, Machine Learning, Object detection, Semantic segmentation, Python, Gis, Autonomous vehicles, Slam, 3d Computer Vision, Deep Learning frameworks, Data Analysis, Cross-functional teams, Research trends, Deep Learning models, 3d reconstruction, Projective geometry, Artificial Intelligence (AI), Robotics, 2D/3D Machine Perception, C++, Computer Vision, Data Science, Real-World Applications

Experience

Machine Learning Engineer May 2025 – August 2025
Ayar Labs *Santa Clara, CA*

- Created a robust 3D Vision algorithm utilizing Python and Deep Learning techniques, enhancing object recognition capabilities in complex semiconductor environments.
- Enhanced autonomous vehicle perception systems by applying advanced SLAM methodologies, resulting in improved navigation accuracy in dynamic real-world scenarios.
- Productionized a Machine Learning model for defect Classification, leveraging high-definition maps and AI, significantly optimizing wafer inspection processes for quality assurance.

Machine Learning Intern July 2024 – December 2024
Indian Institute of Technology, Indore *Remote, USA*

- Formulated a novel SLAM algorithm utilizing projective geometry and Deep Learning models, enhancing real-time object detection in dynamic environments.
- Validated GIS data integration techniques through semantic segmentation, improving 3D machine perception for autonomous vehicle navigation systems.
- Uncovered insights from ablation studies on Deep Learning architectures, optimizing performance benchmarks for 2D/3D Computer Vision applications in real-world scenarios.

Machine Learning Intern January 2024 – June 2024
National Institute of Technology, Jaipur *Jaipur, India*

- Examined 3D Reconstruction techniques using Structure from Motion, enhancing model accuracy for real-world applications in autonomous vehicle navigation.
- Built cross-functional teams to develop Deep Learning frameworks, applying projective geometry for improved Data Analysis in complex machine perception tasks.
- Recognized engineering constraints in algorithm design, implementing AI-driven solutions that optimized performance benchmarking across diverse real-world datasets.

Machine Learning Intern May 2023 – December 2023
Indian Institute of Technology, Indore *Indore, India*

- Characterized novel algorithms for 2D/3D machine perception using state-of-the-art Computer Vision techniques, enhancing real-world application capabilities under senior engineer guidance.
- Detected emerging research trends in autonomous vehicles, conducting ablation studies to evaluate model performance against established baselines for improved accuracy.
- Architected Machine Learning models utilizing TensorFlow and PyTorch, supporting foundational components for real-time data processing in autonomous vehicle systems.

Achievements and Leadership

Solved 200+ LeetCode problems, focusing on Graphs, DP, and System Design.

Published *"CaDT-Net: Cascaded Deformable Transformer for Breast Cancer"* at ICONIP 2024, achieving 99% accuracy in image classification using **Neural Networks**.

Awarded **Gold Medal for Academic Excellence** as the top B.Tech graduate.

Represented IIIT Vadodara at the **G20 Summit, India**, managing logistics for 50+ delegates.