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*

- Developed a trustworthy 3D vision algorithm based on Python and Deep Learning approaches allowing for enhanced object recognition capabilities of complex semiconductor environments.
- Improved navigation features of Agile self-driving automobile systems using sophisticated SLAM techniques to ensure better perception of a vehicle's environment in changing real-life situations
- Leveraging AI and high-definition maps to create a Machine Learning model for defect Classification has greatly enhanced the efficiency of wafer inspection as part.

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

- Developed an innovative SLAM system based on both projective geometry and Deep Learning models that improves real time object recognition in dynamic environments
- By using semantic segmentation; validated how well GIS data can be integrated with other data types in order to improve machine recognition of -dimensional.
- Findings from studies using ablation methods on architecture of Deep Learning were derived and suggested optimization strategies for performance measures in 2D and 3D.

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

- Investigation into dimensional reconstruction methods using structure from motion to improve the accuracy of models for real-world uses such as navigation of autonomous vehicles.
- Formed multi-departmental project teams to create new Deep Learning Frameworks using projective geometry principles to enhance Data Analysis of machine perception tasks in their.
- Utilized knowledge of engineering constraints while designing algorithms as well as developing and implementing AI-driven solutions for optimizing performance benchmarks across various real-world datasets

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

- Developed new algorithms for 2D/3D machine perception utilizing the latest advancements in Computer Vision to increase their effectiveness in practical applications with guidance from.
- Identified new areas of study being researched related to autonomous vehicles, completed ablation tests to determine how well models perform when evaluated against established.
- Utilizing both TensorFlow and PyTorch to build Machine Learning models which form part of the base architecture, allowing real-time data processing for autonomous vehicle.

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.