Sri Akash Kadali

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Availability: June 1st, 2026
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Education

University of Maryland, College Park, United States CGPA: 3.55/4
Master of Science in Applied Machine Learning *August 2024 - May 2026*
- **Relevant Coursework:** Machine Learning, Neural Networks, Algorithms

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:** Statistics, Pattern Recognition, Computer Science

Skills

Programming: Python, JavaScript
Machine Learning: AI, ML, Algorithms, Neural Networks, Pattern Recognition, Computer Science, Hybrid AI Models
Data Engineering & Devops: Bio-Inspired Systems, Problem Solving, Analytical Skills
Additional Skills: Communication Skills, Collaborative Work, Continuous Learning Systems, Statistics

Experience

Machine Learning Intern May 2023 – December 2023
Indian Institute of Technology, Indore *Indore, India*
- Developed and improved algorithms for implicit hate speech detection based on a DeBERTa architecture, achieving a 5% improvement in the F1-score of the baseline models.
- Utilized supervised contrastive learning to improve the representation of features with an 8% classification accuracy improvement on datasets, applicable to continuous learning systems.
- Teamwork on the emotion synthesis pipelines with sentiment features for model precision gain of 6% and supporting hybrid AI technology.

Machine Learning Intern January 2024 – June 2024
National Institute of Technology, Jaipur *Jaipur, India*
- Developed Cascaded Deformable Transformer Layers (CDTL) to increase the modelling of dependency relations belonging to features by 20%, enhancing the algorithms for models that can be trained continuously.
- Created classification pipelines for breast tumor analysis resulting in a 15% decrease in misclassification rates, benefitting clinical decision-making through accurate AI models.
- Created and implemented MaxViT-based models for classification of histopathological images attaining 92% classification accuracy amounting to an improvement of neural networks.

Machine Learning Intern July 2024 – December 2024
Indian Institute of Technology, Indore *Remote, USA*
- Constructed by cascading Deformable Transformer layers (CDTL), which improved the feature dependencies modeling of about 20%, resulting in the enhancement of the algorithms of continuous learning systems.
- Developed classification pathways for analysis of breast tumor which yield a 15% reduction in the misclassification rates. This supports a veritable process in clinical decision-making models in AI.
- Designed and deployed MaxViT model based classification of histopathological images yielding a classification accuracy of 92% aiding in the advancement of neural networks.

Machine Learning Engineer May 2025 – August 2025
Ayar Labs *Santa Clara, CA*
- Designed and optimized algorithms for a visual inspection system, allowing for a final overall accuracy of 99% and a recall of 96% on the minority classes used through reinforced learning of neural networks.
- Worked on continual learning frameworks through curated augmentations per image and targeted balancing, resulting in improved accuracy and recall for minority classes in defect detection.
- Researched AI principles. Normalized training methods across models by means of implementations like label smoothing and early stopping. Model robustness and training performance improvements.

Achievements and Leadership

Published *"CaDT-Net: Cascaded Deformable Transformer for Breast Cancer"* at ICONIP 2024, achieving 92% 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.

Solved 100+ LeetCode problems, focusing on Graphs, DP, and System Design.