Sri Akash Kadali

8417 48th Ave, College Park, MD, 20740
Availability: June 1st, 2026
240-726-9356 | kadali18@umd.edu | https://www.linkedin.com/in/sri-akash-kadali/ | https://github.com/Akash-Kadali

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, Natural Language Processing, Deep Learning

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:** AI Model Development, Data Science, Statistical Learning

Skills

Programming Languages: Python, JavaScript
Machine Learning Techniques: Machine Learning, LLMs, Deep Learning, Pandas, NumPy, scikit-learn, PyTorch, TensorFlow
Data Engineering Tools: ML Pipelines, AWS, GCP, CI/CD
Professional Skills: FastAPI, Operational Excellence, Natural Language Processing, AI Model Development, Transformer Models, Technical Strategy, Collaboration Skills, Exceptional Communication, 2+ years experience, Team Leadership, Problem Solving, Debugging Workflows, Algorithms, Data Structures, OpenAI API, Git, Linux, English (professional)

Experience

Machine Learning Intern May 2023 – December 2023
Indian Institute of Technology, Indore *Indore, India*
- Defined and executed a DeBERTa-based architecture for implicit hate speech detection, achieving a 5% improvement in F1-score through advanced AI model development.
- Leveraged supervised contrastive learning to enhance feature representation, resulting in an 8% increase in classification accuracy, aligning with machine learning best practices.
- Developed emotion synthesis pipelines incorporating sentiment features, contributing to a 6% boost in model precision, demonstrating strong understanding of natural language processing.

Machine Learning Intern January 2024 – June 2024
National Institute of Technology, Jaipur *Jaipur, India*
- Engineered Cascaded Deformable Transformer Layers (CDTL) to improve feature dependency modeling by 20%, optimizing AI workflows for machine learning applications.
- Developed classification pipelines for breast tumor analysis, achieving a 15% reduction in misclassification rates and an F1-score of 0.91, enhancing AI model performance.
- Designed and deployed MaxViT-based models for histopathological image classification, achieving a 92% classification accuracy on large-scale datasets, aligning with AI model development objectives.

Machine Learning Intern July 2024 – December 2024
Indian Institute of Technology, Indore *Remote, USA*
- Engineered Cascaded Deformable Transformer Layers (CDTL) to improve feature dependency modeling by 20%, optimizing AI workflows for machine learning applications.
- Developed classification pipelines for breast tumor analysis, achieving a 15% reduction in misclassification rates and an F1-score of 0.91, enhancing AI model performance.
- Designed and deployed MaxViT-based models for histopathological image classification, achieving a 92% classification accuracy on large-scale datasets, aligning with AI model development objectives.

Machine Learning Engineer May 2025 – August 2025
Ayar Labs *Santa Clara, CA*
- Defined a multi-stage pipeline utilizing YOLOv8 and transformer ensembles for defect classification, enhancing AI model development for photonic laser-die components.
- Achieved 99% overall accuracy with 96% recall on minority classes by optimizing machine learning pipelines and addressing severe class imbalance through targeted augmentation.
- Engineered serverless GPU deployment with FastAPI endpoints for machine learning models, ensuring high standards for system performance and operational excellence in AI solutions.

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.