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, 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*
- Developed and implemented a DeBERTa based architecture for implicit hate speech detection, obtaining a 5% increase in F1-score through advancements in AI models.
- Used supervised contrastive learning to improve feature representation, resulting in an 8% increase in classification accuracy, per machine learning best practice.
- Created emotion synthesis pipelines that can include sentiment features, leading to an increase of 6% in model precision, demonstrating proficiency in understanding natural language processing.

Machine Learning Intern January 2024 – June 2024
National Institute of Technology, Jaipur *Jaipur, India*
- Engineered Cascaded Deformable Transformer Layers (CDTL) aided in achieving a 20% improvement in feature dependency modeling, resulting in optimized AI workflows for machine learning use cases.
- Engineered classification pipelines for breast tumor analysis yielding 15% reduced misclassification rates and a F1-score of 0.91, amplifying performance of AI models.
- Created and implemented MaxViT-based models for histopathological image classification, achieving 92% classification accuracy on large-scale datasets, in line with the objectives of AI model development.

Machine Learning Intern July 2024 – December 2024
Indian Institute of Technology, Indore *Remote, USA*
- Developed Cascaded Deformable Transformer Layers (CDTL) to improve the modeling of feature dependencies by 20%, improving AI workflows for ML applications.
- Designed classification pipelines for breast tumor diagnosis leading to a 15% reduction in misclassification and obtained an F1 score of 0.91 increasing performance of the AI model.
- Engineered and deployed MaxViT-based models for histopathological image classification, attaining a 92% classification accuracy on large-scale datasets, in accordance with the objectives of AI model development.

Machine Learning Engineer May 2025 – August 2025
Ayar Labs *Santa Clara, CA*
- Defined a multi-stage pipeline using YOLOv8 and transformer ensembles for defect classification, streamlining AI model development for photonic laser-die components.
- Attained 99% overall accuracy with 96% recall on minority classes in part based on optimizing machine learning pipelines as well as correcting high class imbalance on the data using focused augmentations.
- Produced a cloud-native serverless GPU deployment with FastAPI endpoints for ML models that provide excellent system performance and operational excellence in AI services.

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.