

# LAVUDYA RAJARAM

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## Summary

Computer science undergraduate with robust experience in machine learning and full-stack development. Designed and trained a hybrid Vision Transformer and EfficientNet model achieving 98% accuracy for plant disease classification, and built AI-driven applications including a meeting management platform and decentralized training system. Proficient in Python, TensorFlow, PyTorch, and modern web frameworks, seeking a machine learning engineering internship.

## Education

<b>Central University Of Haryana</b> <i>B.Tech, Computer Science &amp; Engineering</i> CGPA: 7.5/10	<b>Nov 2022 - Nov 2026</b>
<b>TTWREIS Boys Narsapur</b> <i>Board of Intermediate, PCM (Percentage:91%)</i>	<b>Jun 2019 - Jun 2021</b>

## Key Projects

<b>Tomato Leaf Disease Classification using Hybrid Vision Transformer (ViT)</b> <i>CUH Haryana</i>	<b>Oct 2025 - Present</b> Haryana
<ul style="list-style-type: none"><li>Designed and trained a hybrid deep learning model combining Vision Transformer and EfficientNet architectures for automated plant disease recognition, achieving 98% accuracy through advanced data augmentation.</li><li>Improved model performance by increasing accuracy by 10% and reducing inference time by 15% using timm, torchvision, NumPy, and PIL.</li><li>Evaluated classical machine learning algorithms including KNN, SVM, Decision Tree, and Random Forest for multi-class plant disease prediction using robust feature extraction and preprocessing techniques.</li></ul>	
<b>AI-Powered Meeting Management Platform</b>	<b>Sep 2025 - Nov 2025</b>
<ul style="list-style-type: none"><li>Implemented a full-stack video conferencing application using WebRTC, React, and Node.js, improving real-time peer-to-peer communication by 10%.</li><li>Deployed a collaborative whiteboard with live synchronization, AI-driven meeting summaries, and speech recognition, increasing team productivity by 30%.</li><li>Integrated AI-driven transcription, translation, and summarization features using the OpenAI API and Python to enhance meeting workflows.</li></ul>	
<b>AI Training Platform with Blockchain Integration</b>	<b>Oct 2025 - Nov 2025</b>
<ul style="list-style-type: none"><li>Architected a full-stack AI training platform using Next.js, TypeScript, FastAPI, and Python with a scalable microservices-based design.</li><li>Incorporated Sui blockchain and Walrus storage to enable transparent and distributed machine learning workflows.</li><li>Enabled real-time training monitoring, gradient aggregation, contributor reward mechanisms, and MongoDB-backed persistence.</li><li>Created an interactive dashboard with React Flow, wallet integration, and real-time analytics to visualize training progress and system performance.</li></ul>	
<b>AI Platform Frontend</b>	<b>Jan 2026 - Present</b>
<ul style="list-style-type: none"><li>Developed a modern AI platform frontend using Next.js 15 and React 19, incorporating autonomous agent systems and retrieval-augmented generation (RAG).</li><li>Improved user engagement and workflow efficiency by 25% through optimized UI components built with TypeScript and Tailwind CSS, including voice input and real-time chat.</li><li>Strengthened overall user experience by delivering responsive, dynamic interfaces aligned with modern frontend best practices.</li></ul>	

## Technical Skills

- Programming Languages:** C, C++, Python, JavaScript, DSA, OOPS
- Web & Backend:** HTML, CSS, Tailwind CSS, Next.js, TypeScript, FastAPI, REST APIs
- Databases & Infrastructure:** MySQL, MongoDB (Beginner), Supabase, Prisma ORM, Redis, Celery
- Machine Learning & Deep Learning:** Scikit-learn, NumPy, Pandas, TensorFlow, Keras, PyTorch, CNN, ViT, Hybrid ViT
- Computer Vision:** Image Classification, Disease Detection, Streamlit
- Tools & Operating Systems:** Git, Jupyter, Anaconda, LaTeX, MS Office, Windows, Linux

## Certifications

- Python for Machine Learning – Linear Regression: (Online Certification) Covered data preprocessing, model building, training, evaluation, and performance metrics using Python.
- Web Development Fundamentals: (HTML, CSS, JavaScript) (Online Certification) Gained hands-on experience in building responsive web pages and interactive user interfaces.
- C++ Programming: (Online Certification) Learned core programming concepts including OOP, data structures, and problem-solving using C++.