Yash Varma

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Professional Summary

Software Engineer with 8.94 CGPA and hands-on experience building production-grade AI and web systems at ConnectWise, Cartman Labs, and EaseworkAI. Skilled in full-stack development, cloud architecture, and applied machine learning. Accepted researcher in deep learning (IEEE, Springer) with 5+ hackathon wins including 1st place among 5000+ participants. Specialized in LLMs, RAG systems, and scalable backend design, seeking Software Engineer roles focused on intelligent systems and large-scale infrastructure.

Technical Skills

Languages: Python, JavaScript, TypeScript, SQL

ML/AI: TensorFlow, PyTorch, scikit-learn, Hugging Face Transformers, LangChain, CrewAI, RAG Architecture, BERT, LLaMA

Web & Backend: FastAPI, Flask, Next.js, React.js, Express.js, RESTful APIs, Microservices

Data & Cloud: MongoDB, PostgreSQL, MySQL, OpenSearch, Supabase, AWS, GCP, Digital Ocean, Docker

DevOps & Tools: Git, GitLab CI/CD, GitHub Actions, Cron Jobs, Data Pipelines, Microsoft Graph API

Education

SIES Graduate School of Technology, Nerul | B.E. in Artificial Intelligence & Machine Learning   Aug 2022 – May 2026

- **CGPA:** 8.94/10.00
- **Relevant Coursework:** Machine Learning, Deep Learning, Computer Architecture, Image & Video Processing, Cloud Computing, Data Structures & Algorithms

Experience

Engineering Intern | ConnectWise | On-Site   Jun 2025 – Jul 2025

- Engineered a production-grade RAG-based analytics dashboard to process and visualize insights from 10,000+ Jira tickets, reducing manual analysis time by 75%
- Implemented automated Cron job pipeline for periodic data ingestion and real-time analysis using Python and Next.js
- Collaborated with cross-functional teams to integrate the solution into existing enterprise workflows via GitLab CI/CD

AI & Web Developer Intern | Cartman Labs | Remote   Jan 2025 – Feb 2025

- Built intelligent Twitter agent service using Elisa OS framework, Next.js, and Python
- Deployed scalable microservice architecture on Digital Ocean with MongoDB, achieving 99.5% uptime and sub-200ms response times

AI Intern | EaseworkAI | Remote   May 2024 – Jun 2024

- Automated supplier-buyer workflows using CrewAI agentic framework and LLMs, reducing response time by 60% across 200+ daily transactions
- Built FastAPI microservices integrated with Microsoft Graph API on GCP

Projects

FinSaathi | *Winner - Datathon, 2025 (2000+ participants)*   GitHub

- Developed AI-driven financial literacy platform with multilingual support using fine-tuned LLaMA 3.2 models and RAG architecture
- Implemented hybrid retrieval algorithms matching users to 200+ government schemes
- Utilized Sentence Transformers and Cosine Similarity for personalized financial recommendations

LoanSaathi | *Winner - The Great Bengaluru Hackathon, 2025 (5000+ participants)*   GitHub

- Built multimodal conversational AI assistant for loan management with natural language processing capabilities
- Integrated real-time EMI calculation, eligibility assessment, and personalized financial recommendations

- Achieved 80% user satisfaction score through intuitive voice and text-based interactions

SeaGuard | *Most Product Readiness - Hackcelestial 2.0 (2025), Pillai College of Engineering (250+ participants)* [GitHub]

- Created React Native mobile app for fishermen with ML-powered fish species detection, achieving 97% prediction accuracy
- Integrated real-time weather updates, Potential Fishing Zones, GPS navigation, and SOS features using TensorFlow and Sarvam.ai APIs

Dimension Capture | *Copyrighted Software (2025)* [Copyright]

- Developed computer vision solution using ArUco markers for precise object measurement, reducing costs by 90% compared to LiDAR
- Achieved measurement accuracy within 2mm tolerance for objects ranging from 10cm to 5m

Publications & Research

Attention Enhanced Speaker Representation with Contrastive Learning | *IEEE ICCUBEA 2025 (Accepted)*

- Co-authored research on speaker recognition using attention mechanisms and contrastive learning techniques

Advanced Fake News Detection Using BERT and Ensemble Learning | *Springer ICDSM 2024 (Accepted)*

- Co-authored research on fake news detection framework combining BERT with an ensemble of ML models (Naive Bayes, Passive Aggressive, Logistic Regression), achieving 95% accuracy on the WELFake dataset with NLP-based summarization and content classification.

Achievements & Leadership

- **Hackathon Wins (more than 5):** 1st Place at Datathon 2025 (2000+), Great Bengaluru Hackathon (5000+), GajShield Cybersecurity (2000+); 2nd Runner-Up at AMD AI Sprint (IIT Bombay)
- **Technical Lead, E-Cell (2024):** Led full-stack development for internal platforms; mentored 20+ students on system design and agile methodologies
- **Competitive Programming Coordinator, Arena SIES GST (2023):** Curated 50+ algorithmic challenges; organized coding competitions for 500+ participants
- **Certifications:** AWS Academy Cloud Foundations (2025), Supervised ML (Stanford/DeepLearning.AI, 2024), Google Cloud ML Foundations (2023)