

Varun Inamdar

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Education

Vishwakarma University

B.Tech in Artificial Intelligence CGPA-8.8

Pune, India

Aug. 2023 – May 2027

Vishwakarma University

Honors in CyberSecurity CGPA-9.0

Pune, India

Aug. 2024 – May 2027

Experience

Software Developer Intern

BuildUp Mirai

Jan 2026 – Present

Hybrid

- Contributed as an Intern to transform early-stage POCs into a production-ready GenAI platform, improving architecture and deployment workflows to reduce prototype-to-release time by 30%
- Implemented a Redis queue for API rate limiting and built a GitHub Actions CI/CD pipeline, reducing API failures by 40% and manual deployment effort by 60%.

Software Developer Intern

Bootcoding

Oct 2025 – Nov 2025

Remote

- Developed the Resume Analyzer pipeline in NestJS and PostgreSQL, integrating LLMs for AI-driven parsing, data extraction, and automated resume scoring.
- Worked on async YouTube and PDF summarization pipeline using BullMQ, and Redis job queues for parallel task processing, reducing summarization turnaround by 30%.

AI Engineer Intern

Payload Drone — Vishwakarma University

Jun 2024 – Dec 2024

Pune, India

- Designed a high-payload autonomous drone system for Southern Command, improving flight stability by 22% with intelligent navigation.
- Developed a GPS-independent visual SLAM pipeline using YOLOv5 and MiDaS, achieving 92% indoor localization accuracy, and optimized edge inference with model quantization (40% latency reduction).

Projects

Digital and Intelligence Diet Plan RAG Agent | *Watsonx AI, Granite 8b-instruct, FAISS, LangFlow*

- Built a RAG-based nutrition guidance agent using Watsonx Studio, Granite models for embeddings and response synthesis, and FAISS vector store for semantic retrieval across 10K+ nutritional records.
- Developed personalized meal recommendation pipeline on Watsonx AI, enabling context-aware dietary planning with domain-specific accuracy.

Skoda AI/ML Based Building & Energy Management System | *FastAPI, Next.js, Transformer, PyTorch,*

- Developing an intelligent BMS/EMS solution for Skoda manufacturing facilities, optimizing chiller, boiler, and HVAC operations using predictive machine learning models.
- Implemented time-series forecasting models for energy consumption prediction, achieving 87% accuracy and reducing energy waste by 18%.
- Built a predictive failure detection system using anomaly detection with 91% precision, enabling 48-hour early fault detection and a centralized alert dashboard that reduced maintenance downtime by 25%.

GradeU | *FastAPI, Next.js, RAG, Agentic AI, Supabase, Docker, AWS EC2*

- Architected an AI-powered adaptive e-learning platform using agentic AI workflows, serving 200+ learners with personalized learning paths and reducing course drop-off by 35%
- Composed an event-driven pipeline with BullMQ and Redis to orchestrate async LLM tasks, auto-generating pgvector embeddings per module for RAG-based "Chat with Course" functionality.
- Shipped a draft-to-publish instructor workflow with hands-on Docker labs, multi-DB persistence across Supabase and MongoDB, and deployed on AWS EC2.
- Live: www.gradeu.in

Technical Skills

Languages: Python, JavaScript, TypeScript

Frameworks: React, Next, Node, Express, Flask, FastAPI, TailwindCSS

AI/ML Stack: PyTorch, Scikit-learn, Pydantic, spaCy, Transformers, OpenCV, LangChain, LangGraph, LlamaIndex, Langflow

Databases: PostgreSQL, MongoDB, Redis, FAISS, Pinecone

Specializations: Natural Language Processing, RAG, Agentic AI

DevOps & Tools: Git, n8n, Firebase, Docker, AWS, Vercel, MLflow, Ollama

Cybersecurity: OWASP ZAP, BurpSuite, VAPT

Achievements

Operated AI Headcount system at Shri Mahalaxmi Mandir, Pune during Navratri, counting **200,000+ people** and boosting crowd management.

Secured 1st Place at IBM Hackathon for developing a **multi-agent AI solution** using IBM Watsonx and Cloud; presented project at **IBM Summit, Delhi**.

Secured 1st Place at **Codeathon Machine Learning Hackathon 2025** hosted by **Vishwakarma University**.

Published Research Paper titled "*Document Summarizer: A Machine Learning Approach to PDF Summarization*" in **ICSIAIML-25**, Atlantis Press (Springer Nature), 2025.

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VOIS Marathon 2026 Winner Won National level **Hackathon** competing against **650+ teams** from across **India**