

# Varun Inamdar

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## Education

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### 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

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### Software Developer Intern

*BuildUp Mirai*

Jan 2026 – Present

*Hybrid*

- Spearheaded transformation of early-stage POCs into a production-ready GenAI platform, overhauling architecture and deployment workflows to cut prototype-to-release time by 30%.
- Built a Redis queue for API rate limiting and automated 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*

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

### AI Engineer Intern

*Payload Drone — Vishwakarma University*

Jun 2024 – Dec 2024

*Pune, India*

- Pioneered a high-payload autonomous drone system for Southern Command, boosting flight stability by 22% through intelligent navigation algorithms.
- Developed a GPS-independent visual SLAM pipeline using YOLOv5 and MiDaS, achieving 92% indoor localization accuracy; accelerated edge inference via model quantization, yielding a 40% latency reduction.

## Projects

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### Cohesity — Forensic Evidence Collection Toolkit | *Python, SIEM, SOAR, Forensic Analysis, Incident Response*

- Designed and delivered a lightweight forensic evidence collection and preservation toolkit for active malware incident response at the world's largest data protection software provider, serving 85+ Fortune 100 companies.
- Authored minimal, fast-deploy Python scripts for forensic artefact collection during active malware incidents, integrating tooling into enterprise SIEM/SOAR pipelines while preserving forensic integrity without disrupting live environments.
- Standardised the end-to-end incident response procedure to ensure consistent, court-admissible evidence capture across enterprise-scale data security operations, prioritising evidence integrity and operational speed under adversarial conditions.

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

- Delivering an intelligent BMS/EMS solution for Skoda manufacturing facilities, optimizing chiller, boiler, and HVAC operations through predictive machine learning models.
- Built time-series forecasting models for energy consumption prediction, achieving 87% accuracy and curbing energy waste by 18%.
- Implemented a predictive failure detection system using anomaly detection with 91% precision, enabling 48-hour early fault detection; a centralized alert dashboard slashed 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%.
- Established 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](http://www.gradeu.in)

## Technical Skills

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**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

## Research & Publications

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[**Published**] *“Document Summarizer: A Machine Learning Approach to PDF Summarization”*

**ICSAI ML-25**, Atlantis Press (Springer Nature), 2025 | DOI: 10.2991/978-94-6463-633-8\_25

[**Accepted**] *“Explainable AI in Diabetic Retinopathy Diagnosis: CNN-Based Detection with Gradient-Weighted Class Activation Mapping”*

**AICCT 2025** | Paper ID: 150 | Proceedings Series on Futuristic Intelligent and Smart Technologies (FIST), **CRC Press, USA** | Submitted for **Scopus** Indexing

[**Patent Concept**] *“Cost-Effective Edge AI: Crontab-Managed YOLOv8 Crowd Counter for Public Safety”*

Published on **SSRN**

## Achievements

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

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

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

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

**Ranked 178 out of 2,002 submissions** at **HackerRank Orchestrate** — a 24-hour global hackathon with 12,885 registrants across 48 countries, building an end-to-end AI agent from scratch.