

# Vaibhav Gupta

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## EDUCATION

**Thapar Institute of Engineering and Technology**

Patiala, India

*Bachelor of Engineering in Computer Science Engineering | CGPA: 8.3*

2023 – 2027

## TECHNICAL SKILLS

**Languages:** C/C++, Python, HTML5, Tailwind CSS, JavaScript, TypeScript, SQL

**Core CS:** Data Structures & Algorithms, OOP, Operating Systems, DBMS, Computer Networks

**Frameworks & Libraries:** React.js, Next.js, Node.js, FastAPI, LLMs, RAG, NumPy, Pandas, Scikit-learn, TensorFlow

**Tools & Technologies:** Git, GitHub, Docker, Postman, MongoDB, MySQL, n8n, REST APIs, Webhooks

**Engineering Areas:** Full-Stack Development, AI/ML, Workflow Automation, Secure API Design, System Design (Basics)

## EXPERIENCE

**Oliv AI**

Jan 2026 – Present

*AI Product Intern*

*Remote*

- Collaborated with product and engineering teams to convert ambiguous customer requirements into implementation-ready workflow logic and functional specifications.
- Built API-driven automations using n8n and Clay with webhooks, schedulers, and error handling.
- Customized HubSpot and Salesforce workflows using APIs and automation for customer-specific business processes.
- Supported AI agent development by defining data models, prompt structures, and feedback loops for internal workflows.

**Wealthy Nivesh**

June 2025 – Aug 2025

*Product Analyst Intern*

*Remote*

- Worked with engineering, operations, and compliance teams to translate business requirements into clear user stories and acceptance criteria.
- Clarified edge cases and workflow behavior during sprints to reduce ambiguity for developers.
- Documented technical process flows and system logic to improve execution speed and cross-functional alignment.
- Conducted market and user research to identify product gaps and inform product and engineering priorities.

## PROJECTS

**SmartDoc Extractor — AI Document Parsing System** | *React, Tailwind CSS, FastAPI, Regex*

[Live Demo](#)

- Built an AI-driven web application to extract structured data from DL, Aadhaar, and PAN documents using **Google Gemini AI** with regex-based validation.
- Developed a responsive **React + Tailwind** frontend and multi-format export (PDF, JSON, CSV, TXT).
- Deployed a scalable **FastAPI backend** with secure API handling and structured document-processing workflows.

**AI-Powered LinkedIn Profile Classifier** | *n8n, Automation, Google Apps Script, Webhooks*

[GitHub](#)

- Built a fully automated system to classify LinkedIn profiles into team and hierarchy using **n8n workflows** and **Google Apps Script**-based orchestration.
- Designed secure webhook pipelines with **HMAC-SHA256 signing, timestamp validation, and replay protection**, ensuring data integrity and trusted execution.
- Implemented **cache-aware processing using SHA-256 keys**, reducing redundant API/LLM calls; integrated **Apify enrichment and Wikipedia verification** for improved classification accuracy.

**AlertSphere — AI-ready Alert Management Platform** | *FastAPI, React, SQLAlchemy, APScheduler*

[GitHub](#)

- Developed a full-stack alert and reminder platform using **FastAPI and React** with multi-level alert management, smart scheduling, and severity tagging.
- Implemented **SQLAlchemy and APScheduler** for persistent database operations and background automation workflows.
- Built analytics dashboards using **Recharts and Tailwind CSS** for real-time monitoring and tracking of alerts.

**MNIST Digit Recognition — ML Benchmark Analysis** | *Python, Pandas, Scikit-learn, TensorFlow*

- Implemented and benchmarked multiple ML algorithms on the MNIST dataset, analyzing trade-offs between accuracy, training time, and prediction time.
- Evaluated model performance using confusion matrices, learning curves, and misclassification analysis.

## AWARDS & ACHIEVEMENTS

- **HackFinance Hackathon, IIIT Delhi** — Secured **5th place** among 300+ teams nationwide.
- **StartupThon 2025, All India 1st Place** — Built VisionV-Soft, an AI-powered digital eye care project.
- **Bull's Eye Competition** — Top 7 finalist among 500+ participants nationally.
- **Coordinator & Judge** — AI for Sustainability Hackathon, Canadian University Dubai (Feb 2026)