

Vedant Patil

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EDUCATION

Vellore Institute of Technology

May 2026

B.Tech in Computer Science and Engineering — Current CGPA: 8.4/10

Vellore, Tamil Nadu

- Completed coursework in DSA, Database Systems, SQL, Machine Learning and AWS Cloud Architecture.

Dr. Cyrus Poonawala International School

Apr 2020

Secondary Education

Kolhapur, Maharashtra

- Completed secondary education with strong academic performance.

EXPERIENCE

Walstar Technologies

Jun 2025 – Jul 2025

AI/ML Intern

Kolhapur, Maharashtra

- Designed and implemented a domain-specific chatbot using Large Language Models (LLMs) with Retrieval-Augmented Generation (RAG) to deliver accurate, context-aware responses.
- Integrated LangChain-based document retrieval, embedding generation, and real-time web scraping, improving query accuracy by 30% and increasing user engagement.
- Developed a Python-based OMR analysis system (OpenCV, OCR) with 95% accuracy, reducing manual checking time by 80%.

Fyaril AB

May 2025 – Jul 2025

Frontend Developer Intern

Skane, Sweden (Remote)

- Revamped the Help Center portal, integrating collapsible FAQs, instant search, and dynamic forms, resulting in 40% faster navigation and improved user satisfaction.
- Implemented collapsible FAQs, instant search, and dynamic contact forms, reducing average user navigation time by 40%, measured via click-path analysis and page interaction tracking.
- Optimized frontend performance, decreasing page load time by 30% through DOM optimization, asset compression, and cleaner JavaScript event handling.

PROJECTS

RAG-Based Personalized Chatbot (LLM) — LangChain, Flask, Python, Web Scraping, Vector Database

- Designed and developed a Retrieval-Augmented Generation (RAG) based chatbot using LangChain to deliver accurate, context-aware responses from domain-specific data sources.
- Improved answer relevance by 30%, measured using human evaluation scores (correctness + contextual relevance) and retrieval hit-rate before vs after RAG integration.
- Reduced hallucinated responses by 25%, evaluated by comparing ground-truth answers with model outputs across 100+ test queries.

Machine Learning Project – Data Processing and Model Development — Python, Data Preprocessing, Model Evaluation

- Developed a structured machine learning project focused on data preprocessing, model training, and evaluation.
- Improved model accuracy by 20-25% through feature normalization, missing-value handling, and hyperparameter tuning.
- Evaluated models using Accuracy, Precision, Recall, F1-Score (classification tasks), RMSE / MAE (for regression tasks, where applicable)

Property Rental Management System — React, JavaScript, Supabase

- Developed a full-stack web application for property listing and rental management, enabling users to browse, filter, and book properties in real time.
- Implemented blockchain-based file integrity verification by storing cryptographic hash values (SHA-256) of uploaded files on-chain, ensuring tamper-proof document validation.

SKILLS

- **Languages:** Python, Java, C, HTML, CSS, JavaScript, R, Assembly language
- **Frameworks:** React, Node.js, Flask, Angular, PyTorch
- **Deep Learning and LLMs:** Neural Networks, Convolutional Neural Networks, Retrieval-Augmented Generation, Fine-Tuning
- **Other Tools:** Power BI, GitHub, R Studio, VS Code, Excel

CERTIFICATIONS

- Google Cloud Generative AI (Certificate)
- Complete SQL BootCamp (Applied in Database Projects) (Certificate)

EXTRA-CURRICULAR ACTIVITIES

- Finalist, Shine India Health Startups — Ranked among the top teams across South India for innovative healthcare solutions.
- Participated in ANIMATION CLUB Hackathon Webwiz (24-hour event) focusing on creative web development.