

# Vedant Patil

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## EDUCATION

<b>Vellore Institute of Technology</b>	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.	
<b>Dr. Cyrus Poonawala International School</b>	Apr 2020
Secondary Education	Kolhapur, Maharashtra
— Completed secondary education with strong academic performance.	

## EXPERIENCE

<b>Walstar Technologies</b>	Jun 2025 – Jul 2025
<i>AI/ML Intern</i>	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%.	
<b>Fyaril AB</b>	May 2025 – Jul 2025
<i>Frontend Developer Intern</i>	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

<b>RAG-Based Personalized Chatbot (LLM)</b> — 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.	
<b>Machine Learning Project – Data Processing and Model Development</b> — 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)	
<b>Property Rental Management System</b> — 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 Wehwiz (24-hour event) focusing on creative web development.