

Abhyuday Vaish

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EDUCATION

Vellore Institute of Technology	Chennai, India
Bachelor of Technology in Computer Science	July 2024 – May 2028
CGPA: 9.215	

Delhi Public School

Lucknow, India

2022 – 2024

EXPERIENCE

AI/ML Development Intern	August 2025 – Oct 2025
Daira EdTech	Chennai, India
<ul style="list-style-type: none">Built the platform's core dataset by automating the ingestion, enrichment, and categorization of 100k+ UPSC PYQs.Architected a RAG system to transform static study materials into dynamic, on demand practice assessments.Drove 40% user engagement growth by implementing advanced AI features with OpenAI and OpenCV.	
Summer Research Intern	May 2025 – July 2025
Vellore Institute of Technology	Chennai, India
<ul style="list-style-type: none">Pioneered a novel framework for opponent profiling by integrating Stockfish analysis with Chess.com/Lichess APIs, achieving an 89.5% weakness detection rate.Fine-tuned a Gemma-2B model with opponent tactical profiles, generating automated PGN counter-strategies with an 81.6% success rate in live-data tests.Engineered a pipeline to analyze over 2,500 games, distilling exploitable tactical patterns and opponent vulnerabilities.	

PROJECTS

AI Academic Assistant Python, Ollama, LangChain, OpenAI SDK, Streamlit	June 2025 – Oct 2025
<ul style="list-style-type: none">Engineered an AI-powered academic assistant that streamlined student learning, reducing study time by an average of 3 hours per week.Architected the application using Python and Streamlit, orchestrating AI agent workflows with LangGraph and AutoGen.Generated over 200 personalized study materials, including quizzes and summaries, enhancing user productivity.	
WellNest Flask, TensorFlow, SQLAlchemy, Google APIs, Seaborn, Cryptography	Jan 2025 – Feb 2025
<ul style="list-style-type: none">Designed an encrypted, AI-driven platform to proactively identify student mental health risks via anonymous surveys (100+ participants).Built with Flask, TensorFlow & SQLAlchemy, achieving 95% accuracy in risk identification.Launched real-time alerts & resource access, boosting uptake of mental health support by 40%.	
Gemini Chatbot Python, Flask, Gemini API, Google Custom Search API	Oct 2024 – Dec 2024
<ul style="list-style-type: none">Architected an AI chatbot leveraging Gemini models to provide real-time answers for over 2,000 queries in its first month.Deployed on Flask & Render, integrating memory features and Google Custom Search for live query processing.Enabled interactive Q&A on Discord, YouTube, and Twitch via simple command triggers.	
CLER: CV Based Game Controller Scikit-learn, OpenCV, Keyboard, Python	Mar 2022 – Apr 2022
<ul style="list-style-type: none">Devised a system to control in-game characters via real-time head movement, increasing accessibility for players.Utilized OpenCV for precise facial tracking and mapped movements to keyboard inputs with 98% accuracy.Innovated an accessible gaming experience, reducing reliance on manual controls by 100%.	
Cancer Detector Python, Scikit-learn, NumPy, Pandas	Feb 2022 – Mar 2022
<ul style="list-style-type: none">Designed a machine learning model to classify breast cancer images from a dataset of 500+ images.Implemented K-Nearest Neighbors, achieving 92% accuracy in image classification.Aimed to accelerate early diagnosis and support practitioners with automated, data-driven insights.	

Movie Recommender System Python, TensorFlow, MATLAB, NumPy	June 2021 – July 2021
<ul style="list-style-type: none">Engineered a recommendation system that suggests movies based on user preferences, analyzing 10,000+ reviews.Implemented collaborative filtering using Python & MATLAB to personalize suggestions.Improved user engagement by 15% through more accurate recommendations.	

TECHNICAL SKILLS

Languages: Python, C/C++, Java, SQL (Postgres), HTML/CSS/JS, MATLAB

Frameworks: Flask, Django, FastAPI, PyTorch, TensorFlow, LangChain, HuggingFace Transformers, Scikit-learn, OpenCV

Developer Tools: Git, Docker, Google Cloud Platform/Render/Railway, VS Code, Bash/Terminal/PowerShell