

VIMARSH DWIVEDI

??📍VIT, Bhopal, India · 📞+91-7887266088 · ✉vimarshdwivedi260@gmail.com · inlinkedin.com/in/vimarsh-dwivedi-9b2806165
🐙github.com/VimarshDwivedi

Machine Learning Engineer and Full Stack Developer with expertise in AI systems and web applications. Implemented deep learning solutions achieving 40% performance gains and built RAG systems for document search. Expert in Python, TensorFlow, and React with proven success developing scalable applications and optimizing data pipelines across cloud platforms.

EDUCATION

Bachelor of Technology in Computer Science Engineering <i>Vellore Institute of Technology, Bhopal, India</i> CGPA: 8.16/10.0	<i>Expected May 2026</i>
Class XII, Science Stream <i>Kendriya Vidyalaya, Aliganj, Lucknow, India</i> Percentage: 85.6%	<i>June 2021</i>
Class X <i>Kendriya Vidyalaya, Aliganj, Lucknow, India</i> Percentage: 88.2%	<i>June 2019</i>

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL, C++, Java, HTML5, CSS3
Machine Learning & AI: TensorFlow, PyTorch, Scikit-learn, Deep Learning, NLP, LangChain, Vector Search, Transformers
Development: Docker, AWS, RESTful API, Flask, FastAPI, React, Node.js, Express
Databases: MongoDB, MySQL, PostgreSQL, Pinecone, Firebase
Relevant Coursework: Data Structures & Algorithms, Machine Learning, Database Management Systems, Artificial Intelligence, Computer Vision, Big Data Analytics, Object-Oriented Programming

PROFESSIONAL EXPERIENCE

Data Science Intern <i>Nexyom, Remote</i>	<i>April 2025 - Present</i>
<ul style="list-style-type: none">Engineered comprehensive PDF editor with features for rotation, watermarking, and security controls (locking/unlocking), increasing client document handling efficiency by 55%Architected RAG-based document pipelines using LangChain and vector databases that improved information extraction accuracy by 40%Developed benchmarking system to evaluate performance of various LLMs for document Q&A, identifying optimal models that reduced operational costs by 32%Implemented serverless document processing infrastructure with Python and Hugging Face, enabling real-time document analysis with 35% faster response times	

TECHNICAL PROJECTS

PDF Q&A System https://github.com/VimarshDwivedi/PDF-Q-A-USING-LLM	<i>Python, LangChain, Hugging Face, Streamlit, FAISS</i>
<ul style="list-style-type: none">Developed a Retrieval-Augmented Generation (RAG) system for querying PDF documents, achieving 90% accuracy in natural language responsesImplemented vector-based document search using Hugging Face embeddings and FAISS, reducing query response time by 45%Designed an interactive Streamlit interface, improving user engagement by 60%	
Multi-Modal Real Estate Price Prediction https://github.com/VimarshDwivedi/House_price_prediction	<i>Python, TensorFlow, Scikit-learn, CNN, LSTM, Flask</i>
<ul style="list-style-type: none">Engineered hybrid CNN+LSTM neural network processing multimodal data with 92% property valuation accuracyImplemented feature engineering pipeline with dimensionality reduction, increasing model generalization by 18%Constructed containerized Flask API supporting concurrent property valuation requests with horizontal scaling	
Medical GenAI Assistant https://github.com/VimarshDwivedi/medicalbot_genai-main	<i>Python, LangChain, Hugging Face, FAISS, Streamlit</i>
<ul style="list-style-type: none">Built a medical chatbot using RAG and LLMs, achieving 93% accuracy in answering medical queriesIntegrated vector database with Hugging Face embeddings, improving knowledge retrieval efficiency by 50%Developed a Streamlit-based UI for symptom-based queries, enhancing user accessibility by 65%	

CERTIFICATIONS

Full Stack Web Development, Coursera (2023)
AWS Cloud Architect Associate, AWS (2025)