



Vivek Kumar Gupta

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B.Tech – Mathematics and Computing

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GitHub

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EDUCATION

Indian Institute of Information Technology, Bhagalpur

2023 – 2027

B.Tech in Mathematics and Computing

CGPA: 7.75

TECHNICAL SKILLS AND INTERESTS

Languages: Python, C++

Developer Tools: Git, FastAPI, Streamlit, MLflow, DVC

Frameworks: LangChain, LangGraph, TensorFlow, scikit-learn

Cloud/Databases: FAISS, ChromaDB, Pinecone

Machine Learning: Supervised & Unsupervised Learning, Feature Engineering, Model Evaluation

Deep Learning: Neural Networks, CNNs, Transfer Learning, LoRA, QLoRA

Natural Language Processing: Text Preprocessing, Tokenization, Embeddings, Prompt Engineering, RAG

Soft Skills: Problem Solving, Analytical Thinking, Technical Writing

Coursework: Machine Learning, Data Structures, Algorithms, Linear Algebra

Areas of Interest: Machine Learning, Deep Learning, NLP, Generative AI, Agentic AI Systems, MLOps

EXPERIENCE

Outlier

Mar 2025 – Jul 2025

AI Response Evaluator (Freelance)

Remote

- Reviewed and evaluated 300+ AI-generated responses for factual accuracy, logical reasoning, and multilingual quality across English, Hindi, and code-based outputs.
- Improved evaluation reliability by 25% by introducing structured rubrics, standardized benchmarks, and systematic testing workflows.

PROJECTS

Adaptive-RAG – Intelligent Retrieval-Augmented Generation System | Live | GitHub

Jun 2025

Designed an adaptive RAG pipeline with dynamic query routing and self-correction mechanisms

- Tools & technologies used: LangChain, LangGraph, FAISS, FastAPI, Streamlit
- Implemented conditional retrieval routing, hallucination detection, and query rewriting loops, reducing low-quality responses by approximately 35% across multiple test queries.

Lovable Clone – AI Software Engineer Agent | Live | GitHub

Nov 2025

Built a multi-agent system that converts natural language ideas into complete runnable codebases

- Tools & technologies used: LangGraph, Pydantic, FastAPI
- Developed planner, architect, and coder agents that generated 3–6 project files per prompt, achieving around 88% successful end-to-end generation across diverse tasks.

CardioCare AI – Heart Disease Prediction System | Live | GitHub

Apr 2025

End-to-end machine learning system for medical risk prediction and explanation

- Tools & technologies used: Python, scikit-learn, FastAPI, MLflow, DVC
- Trained models on 800+ patient records with real-time inference, experiment tracking, and LLM-based risk explanation and diet recommendation features.

CERTIFICATION

Complete Generative AI Course with LangChain and HuggingFace

Aug 2025

Udemy

- Hands-on training in LLMs, embeddings, RAG pipelines, and end-to-end Generative AI application development using LangChain and HuggingFace.

Complete Agentic AI Bootcamp with LangGraph and LangChain

Dec 2025

Udemy

- Built agentic AI systems with multi-agent workflows, routing, evaluation, and tool-augmented reasoning using LangGraph and LangChain.

ACHIEVEMENTS

Hackathon Performance

2024

Hackathon Performance

2025

Problem Solving

Ongoing