# VIVEK KUMAR GUPTA

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## Education

**Indian Institute of Information Technology (IIIT) Bhagalpur**                 **2023 – 2027 (Expected)**
*B.Tech in Mathematics and Computing – CGPA: 7.51*                    *Bhagalpur, Bihar, India*

## Technical Skills

**Languages  Databases:** Python, MySQL, C++
**Frameworks & Libraries:** Pandas, NumPy, Scikit-learn, XGBoost, CatBoost, Matplotlib, Seaborn, Plotly, TensorFlow, FastAPI
**Machine Learning & AI:** Supervised & Unsupervised Learning, Deep Learning, Transfer Learning, Prompt Engineering, Model Optimization
**NLP & Generative AI:** LangChain, RAG Pipelines, OpenAI GPT-4/GPT-4o, HuggingFace Transformers, FAISS, Vector Databases (ChromaDB)
**MLOps & DevOps:** MLflow, DVC, Docker, CI/CD (GitHub Actions)
**Software Engineering:** Async Python Programming, Data Structures & Algorithms (DSA), Git/GitHub
**Other Tools:** Jupyter Notebook, VS Code, BeautifulSoup

## Projects

**CardioCare AI** | **Live Demo** | Python, Machine Learning, Streamlit, LangChain**June 2025 (Anticipated Completion)**
- Engineered a predictive system using Random Forest, XGBoost, and CatBoost with MLflow for experiment tracking, achieving accurate heart disease risk detection.
- Integrated Groq LLaMA 3 (70B) to deliver personalized diet plans, lifestyle guidance, and interactive medical chatbot support.
- Designed a secure architecture with MySQL, FastAPI backend, and dotenv for safe key management, supporting multilingual output and PDF health reports.
- Developed a modular ML pipeline ensuring preprocessing, prediction, and automated result generation with a user-friendly UI for real-time access.
- Deployed an end-to-end Streamlit application enabling real-time risk predictions and AI-generated recommendations through an intuitive web interface.

**AI-Powered Interview Prep Tool** | **Live Demo** | LangChain, OpenAI, FAISS, Streamlit**January 2025 (Anticipated Co**
- Developed a comprehensive recruitment preparation system analyzing resumes against job descriptions using semantic similarity matching with FAISS vector stores and OpenAI GPT-4, achieving 85% accuracy in skill gap identification.
- Engineered a voice-enabled mock interview module using OpenAI Whisper STT and TTS APIs, automatically scoring candidate responses on communication, technical knowledge, and problem-solving abilities with detailed feedback generation.
- Implemented a RAG pipeline for contextual Q&A and dynamic interview question generation, personalizing 100+ technical and behavioral questions based on candidate profile analysis and identified skill gaps.
- Integrated Adzuna job search API with intelligent filtering and built an automated resume optimization engine, improving ATS compatibility scores by 40% through keyword enhancement and format restructuring.

## Experience

**Outlier – AI Response Evaluator (Freelance)**                 **March 2025 – Present (Anticipated Sta**
*Reviewed AI outputs for accuracy and quality in English, Hindi, and coding.*                    *Rem*
- Assessed multilingual and technical outputs, identifying hallucinations, factual inconsistencies, and logical errors.
- Delivered structured evaluation reports to refine prompt performance, accuracy, and user experience in AI models.

## Certificates

**Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate** | Oracle**August 2025 (Anticipated)**

**Generative AI Course with Langchain and Huggingface** | UdemyCompleted