KUNAL SINGH

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GitHub | **LinkedIn**

Education

Gautam Buddha University | Greater Noida, Uttar Pradesh, India   **Aug 2022 – Jun 2026**
Bachelor of Technology: Computer Science
Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming (OOPs), Database Management System (DBMS), Operating Systems, Machine Learning, Natural Language Processing

Skills

Programming Languages: C++, Python, SQL
Frontend: React.js, Next.js, CSS, JavaScript
Backend: Node.js, Express.js, RESTful API design
Database & Cloud: MongoDB, SQL, Cassandra DB, ChromaDB
Tools & Platforms: Git, GitHub, Postman, Firebase
Frameworks & Libraries: TensorFlow, PyTorch, NumPy, Pandas, LangChain, Hugging Face Transformers ,Streamlit
AI/ML Techniques: Fine-tuning with custom data, Vector Embedding, Natural Language Processing, Neural Network Optimization

Experience

Engineering Intern - Thales Group | Noida *(Jun 2025 – Jul 2025)*
- Developed a Generative AI platform using Google Gemini and OpenAI APIs, integrating LLMs into enterprise NLP workflows.
- Engineered custom prompts and optimized inference pipelines for large language models, enhancing output relevance by 30% through iterative testing and performance tuning.
- Produced a demo-ready capstone with technical documentation and cross-functional feedback integration.
- Conducted data analysis and model fine-tuning using Python and TensorFlow, reducing processing latency by 25% and ensuring scalability for production environments.

Full Stack Developer Intern - MI Matdar | Maharashtra *(Feb 2025- Apr 2025)*
- Implemented a responsive frontend using React.js and Tailwind CSS, resolving UI/UX bugs and implementing lazy loading to optimize page load times.
- Built scalable backend REST APIs with Node.js and Express.js, boosting response time by 40%.
- Collaborated in an Agile 7-member team to deploy builds with Vercel and Netlify, maintaining 95% test coverage.
- Integrated MongoDB database with schema design and query optimization, handling user records while improving data retrieval efficiency by 35%.

Projects

StudyMate - GenAI Powered Study Assistant LINK↗
Tech Stack: Python, Langchain, Groq, Gradio, ChromaDB, Hugging Face
- Developed an AI-powered PDF Summarizer & Q&A tool using RAG, embeddings, and ChromaDB for context search.
- Refined and enhanced retrieval pipelines with LLM and HF models, achieving 40% fast learning & revision.
- Improves accessibility to knowledge by 70%, enabling students and professionals to quickly extract insights from lengthy documents.

AlphaCare - AI-Powered Healthcare Chatbot LINK↗
Tech Stack: Next.js, React.js, Node.js, Firebase, Tailwind CSS, Vapi API, Google Gemini, TypeScript
- A full-stack web platform that uses Generative AI to perform healthcare check-ups in real time.
- Led back-end and AI integration using Google Gemini and Vapi API, improving voice-based interaction flow by 45%.
- Stands out for its 100% voice-enabled interface and personalized feedback system, which improved engagement by 35%.

Travel Planner- Plan your trip LINK↗
Tech Stack: Python, Langchain, Groq, Gradio
- Built an AI chatbot that generates personalized, time-optimized travel itineraries reducing management by 50%.
- Implemented system utilizing Gradio for the user interface, LangChain for workflow orchestration, and Groq for efficient inference, delivering a seamless UI/UX experience and reducing manual planning efforts by 70%.
- Achieved recommendation accuracy by 40% using vector embeddings and similarity search.

Notion - Course Selling Application LINK↗
Tech Stack: React.js, Node.js, MongoDB, Express, Tailwind CSS
- A secure online course marketplace with role-based dashboards and admin tools for creators, built 70% of backend APIs and frontend UI, optimizing API response time by 20%.
- Enabled 50+ instructors to monetize learning content and reach students in underserved areas, boosting access by 40%.
- Unlike standard platforms, it supports low-bandwidth devices and JWT-authenticated sessions with 98% accuracy in test results.

Additional Information

Languages: English (Fluent), Hindi (Native)
Certifications: Google Cloud GenAI (Google Cloud), Advanced Software Engineering (Walmart USA- Forage), Deloitte Australia Technology (Forage), AWS Cloud Practitioner Essentials (AWS), Generative AI (HP Life), Postman
Awards/Activities: Led a team to the finals in 3+ hackathons and solved more than 100+ questions on leetcode and GFG
Volunteered at MotoGP Bharat 2023, supporting event and logistics coordination LINK↗