Ketan Bajpai

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EDUCATION

Indian Institute of Information Technology, Nagpur Nagpur

Bachelor of Technology in Electronics and Communication Engineering, *Nov. 2022 – June 2026*
Specialization in Internet of Things

PROJECTS

Real-Time Chat Application | *Node.js, Express.js, Socket.IO, JSON Web Token, MongoDB,React.js* [GitHub]
- Developed a real-time chat application featuring online/offline status updates using Socket.IO.
- Integrated JSON Web Token-based authentication with MongoDB for secure user management.
- Designed the React frontend and managed state with Zustand.

Career Guidance Chatbot (RAG-based) | *Next.js, Clerk, Qdrant, Gemini, Node.js* [GitHub]
- Developed a personalized career advice chatbot using Retrieval-Augmented Generation (RAG) with hybrid search combining keyword and semantic (vector) search.
- Curated a custom dataset of career insights and integrated Qdrant for vector storage; used Gemini API to generate context-aware answers.
- Built a secure and responsive web interface with Next.js and Clerk for authentication; implemented dynamic follow-up questions based on conversation flow.

POSITION OF RESPONSIBILITY

Senior Coordinator – Logistics, TantraFiesta (Techfest of IIIT-NAGPUR)
- Led a 15+ member team to plan and execute logistics for 20+ high-impact events with 1000+ footfall.
- Streamlined workflows and coordinated across departments (hospitality, finance, tech) to improve execution speed.
- Implemented real-time issue resolution strategies, reducing delays by 30% and improving event flow.
- Demonstrated ownership and quick decision-making under pressure in dynamic event environments.

TEAM LEAD – Hospitality, TantraFiesta (Techfest of IIIT-NAGPUR)
- Managed guest relations for 50+ dignitaries including industry speakers and academic leaders.
- Trained and delegated responsibilities to 10+ volunteers, ensuring smooth guest coordination.
- Created SOPs for issue resolution and live coordination, ensuring high guest satisfaction.
- Collaborated closely with logistics and media teams to align communication and guest protocols.

ACHIEVEMENTS

Aeonea Case Study Competition – IIT Roorkee E-Summit 2024
- Selected among **400+ national teams** for the business strategy challenge.
- Qualified through multiple rounds including online idea submission and pitching.
- Visited IIT Roorkee campus to present the solution in front of a jury panel of investors and experts.
- Demonstrated strong analytical thinking, problem-solving, and impactful communication.

LeetCode
- Solved **300+ problems**, strengthening skills in algorithms, DSA, and competitive coding.

CodeChef
- Achieved a **3-star rating** (Peak Rating: 1631), reflecting regular participation and strong coding ability.

TECHNICAL SKILLS

Programming Languages: Python, SQL,C++, Java.
Web Development: React.js, Next.js, Node.js, Flask, Express.js, REST API.
Data Analysis Visualization: Excel, Google Sheets, SQL, Tableau, Power BI, Pandas, NumPy, Matplotlib, Seaborn.
Tools Technologies: Docker, GitHub, Postman, Visual Studio Code, AWS, GCP, Apache Spark.
Databases ORM: PostgreSQL, MySQL, MongoDB, Prisma, Sequelize.