Saharsh Kumar

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Professional Summary

Aspiring Full-Stack Software Engineer with expertise in designed and delivered scalable, user-centric web applications using the MERN stack. Proficient in Data Structures and Algorithms (400 LeetCode problems solved) and experienced in delivering high-performance solutions with CI/CD and cloud deployment. Passionate about solving complex challenges and contributing to innovative projects.

Education

IIIT Dharwad   Karnataka, IN
BTech in ECE | CPI: 9.19   *Dec 2022 – May 2026*

Gyan Bharti Senior Secondary   Bihar, IN
Senior Secondary | Percentage: 91.2%   *Aug. 2020 – May 2022*

Experience

Full Stack Developer Intern   Sept 2024 – Nov 2024
Innomatics Research Labs   *Hyderabad, IN*

- Engineered a scalable e-commerce platform using the MERN stack with JWT authentication, boosting user engagement by 40%.
- Optimized MongoDB schema and indexing, reducing query response times by 60% using compound indexing and improving database efficiency.

Projects

Health Care Hub | *Next.js, MongoDB, Bootstrap, JavaScript*   May – June 2024

- Healthcare portal for patients to access medical info, book appointments, and manage records.
- Integrated an **Emergency SOS button** to auto-call ambulance services using geolocation APIs for instant response

Emotion Recognition in Conversations (ERC) | *Python, BERT, LSTM, Hinglish NLP*   Feb – Apr 2025

- Designed a real-time ERC system using fine-tuned HingBERT embeddings and BiLSTM classifier for code-mixed Hindi-English dialogues.
- Achieved **weighted F1-score of 0.5753**, outperforming Base/Quantized/LORA LLaMA on key classes (neutral, joy).
- Designed a conversational interface with emotion flip analysis and visualizations to handle context shifts and class imbalance.

AI-Powered Resume Analyzer | *Python, Sentence-Transformers, DistilBERT, Flask*   Mar – May 2025

- Developed an AI-driven resume analyzer using DistilBERT and TfidfVectorizer, achieving ATS compatibility scores of 80–90% for diverse job descriptions.
- Engineered a skill-matching module with all-MiniLM-L12-v2, boosting candidate-job fit accuracy by 52% through semantic similarity analysis.

Technical Skills

Programming Languages: Python, Java, C++, JavaScript/TypeScript, SQL, HTML/CSS
Frameworks & Libraries: React, Next.js, Node.js, Flask, Transformers, Sentence-Transformers
Tools & Cloud: PostgreSQL, MongoDB, Git, Docker, RESTful APIs, DistilBERT
Soft Skills: Collaborative Problem-Solver, Effective Time Manager, Adaptable Learner

Achievements

LeetCode Profile: Achieved a maximum rating of 1670, solved over 400 problems | Handle: [Saharsh](#)

Hackathons: Represented my institute at **Smart India Hackathon (SIH) 2024**; actively participated in national-level hackathons including **Flipkart GRiD** and various **Devfolio**-hosted events.