J HIMANEESH REDDY

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PROFESSIONAL SUMMARY

Results-driven Computer Science undergraduate with demonstrated expertise in full-stack development and artificial intelligence applications. Proficient in Python, C++, SQL, JavaScript, React, and Node.js, with proven experience in architecting scalable web applications and implementing advanced deep learning models for real-world problem solving. Strong foundation in Data Structures, Algorithms, Object-Oriented Programming, and Database Management Systems.

EDUCATION

B.Tech in Computer Science and Engineering 2022 – 2026
Amrita Vishwa Vidyapeetham, Coimbatore — CGPA: 6.8/10

TECHNICAL SKILLS

Programming Languages: Python, C++, SQL, JavaScript, Java
Web & Backend: React, Node.js, Express.js, HTML, CSS
Databases & Cloud: MongoDB, Firebase, MySQL
Tools & Platforms: Git, GitHub, Linux, VS Code
Core CS Concepts: Data Structures & Algorithms, Object-Oriented Programming, Database Systems
Deep Learning & AI: LSTM, Bi-LSTM, Transformer Models, TensorFlow, PyTorch

PROJECTS

Earthquake Magnitude Prediction System Using Deep Learning 2024
- Implemented LSTM, Bi-LSTM, and Transformer models using eight seismic indicators derived from Gutenberg–Richter law and seismic energy release patterns.
- Analyzed earthquake catalogs from Japan, Indonesia, and HKH regions containing 100,000+ events.
- Achieved MAE 0.060–0.073 and MSE 0.006–0.009 demonstrating effective forecasting accuracy.

Online Assessment Platform 2024
- Built a full-stack examination system supporting MCQ, SCQ, and coding challenges with automated evaluation.
- Developed REST APIs for authentication, exam flow, performance analytics, and admin dashboards.
- Tech Stack: React, Node.js, Express.js, MongoDB.

Smart Attendance System 2023
- Designed an STM32-based RFID attendance tracker with real-time timestamp logging.
- Integrated RFID hardware with MySQL backend to automate attendance processing, reducing manual effort by 80%.

Baby Monitoring Device – Webots Simulation 2023
- Created a robotics-based infant monitoring system in Webots integrating sound, motion, and environmental sensors.
- Built virtual test environments enabling real-time alert testing and safety validation.

EXTRACURRICULAR ACTIVITIES

NSS (National Service Scheme): Participated in community service initiatives, awareness campaigns, and rural outreach activities.