H S Vishal

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EDUCATION

Keshav Memorial Institute of Technology, Hyderabad   Nov 2022— Present
B.Tech (Computer Science & Engineering)   *GPA: 8.2*

Narayana Junior College, Hyderabad   July 2020 — May 2022
Intermediate in MPC (TSBIE)   *97%*

SUMMARY

Computer Science student with a solid foundation in programming, data structures, and full stack software development. Interested in rapidly mastering new technologies, including emerging areas such as generative AI and applying analytical thinking to solve complex problems. Committed to continuous learning and delivery of high-quality solutions with a focus on innovation and usability

PROJECTS

Court Management | *React, Express.js, MongoDB*
- Developed a role-based, case management portal, enabling e-filing, automated assignment, and secure document handling.
- Collaborated in a feature-driven development process, contributing to both frontend (React dashboards) and backend (Express.js APIs).
- Designed optimal MongoDB schemas (user-role mapping, case history, auto reassignment) with Mongoose middleware.
- Built secure RESTful APIs with JWT authentication for case filing, document uploads, and session persistence.

Smart Plant Guard | *ESP32, MySQL, ChromaDB, LangChain, Flask, Flutter*
- Engineered an IoT-enabled plant care assistant by streaming ESP32 sensor data (soil moisture, temperature, light, minerals NPK) into MySQL for real-time monitoring
- Integrated a RAG pipeline (LangChain + LLaMA 3, Ollama) with ChromaDB knowledge embeddings to deliver context-aware plant care advice.
- Built a Flutter mobile app for live metrics, health alerts, and chatbot-based recommendations.

TECHNICAL SKILLS

Languages and frameworks: Java, C, C++, Python, SQL, JavaScript, HTML/CSS
Web Technologies: React.js, Express.js, Flutter, MySQL, MongoDB, RestAPI
Dev-ops: AWS, Design Patterns, Git, Docker, Jenkins