D V S MONISH KUMAR

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SUMMARY

Computer Science student specializing in Data Science, AI, and Full-Stack Development. Passionate about building scalable, AI-driven solutions and optimizing algorithms to solve real-world problems.

EDUCATION

B.Tech - Computer Science Engineering (Data Science)   **Nov 2022 – Expected 2026**
B V Raju Institute of Technology, Telangana
Relevant Coursework: Data Structures and Algorithms, DBMS, ML, Operating Systems, Cloud and Big Data.
CGPA: 8.89

SKILLS

Languages	Java, Python, Javascript, SQL; Object-Oriented, Data Structures
Web Development	ReactJS, NodeJS, ExpressJS, Redux, MongoDB, HTML, CSS
AI/ML	NumPy, Pandas, scikit-learn, Transformers, LLM
Tools	Git, GitHub, Jupyter, Power BI, Google Colab, Docker

PROJECTS

Comprehensive Study Planner Web App — *React, NodeJS, MongoDB, Socket.io, JWT, Multer*
Designed and developed a **full-stack web application** to enable **collaborative study planning** for students. Implemented **JWT-based authentication** for secure access and integrated **real-time group messaging** using Socket.io. Enhanced productivity with **personalized study insights** and **deadline notifications**, reducing missed deadlines by 20%. Enabled **secure file uploads** using Multer for seamless sharing of study materials.

Farm2Fork – Sustainable Food Supply Chain System — *React, NodeJS, MongoDB, Pinata(IPFS)*
Developed a **decentralized supply chain system** using **Pinata (IPFS)** for **tamper-proof data storage**, ensuring **end-to-end transparency**. Designed a **farmer dashboard** for listing crops, fertilizers used, and pricing, and a **distributor module** for managing orders, negotiations, and storage. Built a **retailer module** to browse distributors, place orders, and generate a **QR code for complete traceability**. Integrated **sustainability scoring** for farmers and distributors to promote eco-friendly practices.

AI-Driven Audio Description Generator for Accessibility — *Python, Transformers, NewsAPI, OpenWeatherMap, Wikipedia API* Designed and developed an AI-powered virtual assistant for visually impaired users. Integrated speech recognition, text-to-speech (TTS), and Large Language Models (LLM). Implemented NewsAPI, OpenWeatherMap, and Wikipedia APIs; employed BLIP and DialoGPT for enhanced accessibility and conversational interactions. Developed an adaptive response system that dynamically generates real-time context-aware descriptions based on user queries.

EXPERIENCE

Open Source Contributor — GirlScript Summer of Code   Jun 2024 – Aug 2024
Ranked among top 100 contributors. Improved features and resolved issues across repositories. Collaborated on scalable open-source projects.
Merged 20+ PRs, enhancing repository efficiency and scalability.

Python Intern — Slash Mark   Nov 2023 – Feb 2024
Completed an internship focusing on practical Python programming, gaining hands-on experience in developing real-world applications. Built a real-time license plate recognition system using Jetson Nano and OCR.
Achieved 92% accuracy in real-time license plate recognition system.

ACHIEVEMENTS

- 2nd Prize – Tech Savishkar 3.0 National Hackathon (Farm2Fork Project)
- Selected for NxtWave NSDC Fellowship
- Captain for BVRIT Cricket Team; Played for Telangana U17 State Team

CERTIFICATIONS

- IBM - Data Science, 2023
- NPTEL - DSA using Python, 2023
- AWS - Data Engineering, 2024
- AWS Cloud Foundations, 2023
- Oracle - Java Fundamentals, 2024
- Google - AIML Internship, 2024