Meduri Venkata Sri Koushik

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TECHNICAL SKILLS

Programming Languages: Python, SQL
Frontend: HTML, CSS, JavaScript, React.js
Backend: Node.js, Express.js, Flask
Database: MySQL, SQL
Tools: Git, GitHub, VS Code, Power BI, MySQL Workbench, Jupyter Notebook, Render
Core Subjects: DSA, OOPS, DBMS, AI

WORK EXPERIENCE

ExpertAid Technologies Private Ltd. Link   **Hyderabad**
Software Developer Internship   MAY 2025-JULY2025

- Contributed to the development of a customer-support chatbot that reduced customer query calls by 30% and improved overall user self-service efficiency by refining the intent classification module..
- Gained hands-on experience with SDLC, project management, and code management while testing ERP modules and assisting in issue identification and resolution.

EDUCATION

Vellore Institute of Technology, Chennai   **CGPA: 7.38/10**

B.Tech - Computer Science and Engineering with Specialization in AI & Robotics   SEP 2022 - JUN 2026

PROJECTS

Real-Time Student Data Analysis Link
Tech Stack: HTML, Node.js, Express.js, Rest API, MySQL, PowerBI   JAN 2025

- Automated a real-time student data analytics pipeline and built live, user-facing dashboards that delivered immediate, actionable insights on student performance, submissions, and engagement for faster academic decision-making.
- Deployed AWS infrastructure (RDS−MySQL, EC2) and integrated it with Power BI to ensure high availability, scalable data processing, and low-latency analytics across dynamic concurrent user loads.

AI-Powered Website Navigation Chatbot Link
Tech Stack: React.js, Node.js, Groq API, Chrome Extension Local Storage   JUNE 2025

- Engineered an AI-powered customer support chatbot using Groq for real-time intent recognition and natural language understanding(NLP model trained on X data), achieving 92% intent accuracy and reducing dependency on customer-query calls by 30% and delivering direct, actionable navigation links that guided users to relevant content.
- Integrated a voice-enabled interface using Google's Speech-to-Text API, converting spoken queries into text for seamless NLP processing and significantly expanding user adoption of the chatbot.

Enhancing WSN through MDS-MA Hybrid Optimization Link
Tech Stack: Python, NumPy, Pandas, Matplotlib   MAY 2025

- Designed a hybrid MDS−Memetic Algorithm model with Machine Learning-based clustering, improving WSN efficiency with up to 18.7% lower energy consumption and ~20.9% longer network lifetime in large-scale simulations.
- Implemented adaptive sleep scheduling and energy-aware node activation to reduce active nodes by 30−40% while maintaining 99−100% coverage, enabling scalable, energy-optimized WSN deployments.

Dsa-Helper Chrome Extension Link
Tech Stack: React.js, Flask, Vite   MAY 2025

- Developed and deployed the DSA-Genie Chrome extension using ReactJS/Vite and Flask, integrating the Groq API to provide real-time explanations and pseudocode, reducing user resource access time by 20%.
- Increased user retention through implementing features for detailed explanation generation, secure bookmarking, and dynamically displaying the most relevant YouTube reference video within the extension.

CERTIFICATIONS AND ACHIEVEMENTS

- Certified in **Data Science using Python** from **Edureka,** completing 15 hands-on ML assignments.   **Certificate**
- Gained hands-on **Android development** experience through training at **Imarticus Learning**.   **Certificate**
- Solved **100+ DSA problems** on **LeetCode**, strengthening problem-solving skills.   **Leetcode**
- Served as **Student Coordinator** for **SDG 4 − Quality Education (Targets 4.1 & 4.2)**.   **Event Poster**
- **Video Editing and Photography Head** at **TLA**, **VIT Chennai** (600k+ views)   **Portfolio**
- Secured **7th out of 93 teams** in **Data Science Hackathon** conducted by **VIT Chennai**.