

# Meduri Venkata Sri Koushik

Hyderabad, Telangana, India

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## TECHNICAL SKILLS

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**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

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**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

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**Vellore Institute of Technology, Chennai**

CGPA: 7.44/10

B.Tech - Computer Science and Engineering with Specialization in AI & Robotics

SEP 2022 - JUN 2026

## PROJECTS

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**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 using EC2 and RDS (MySQL) and integrated it with Power BI to enable scalable data processing and low-latency analytics under concurrent user access.

**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 to convert spoken queries into text, improving accessibility and usability 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 strategies to reduce the number of active nodes while maintaining high network coverage during simulations.

**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

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- Certified in **Data Science using Python** from **Edureka**.
- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate** certified.
- Solved **100+** DSA problems on **LeetCode**, strengthening problem-solving skills.
- Served as **Student Coordinator** for **SDG 4 – Quality Education (Targets 4.1 & 4.2)**.
- Video Editing and Photography Head** at **TLA, VIT Chennai** (600k+ views)
- Secured **7th** out of **93** teams in **Data Science Hackathon** conducted by **VIT Chennai**.

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