Shyam J

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[Portfolio](#) | [LinkedIn](#) | [GitHub](#) | [LeetCode](#)

Professional Summary

Final-year B.Tech AI & Data Science student with strong expertise in Machine Learning, Deep Learning, and Full-Stack Web Development. Experienced in designing and developing AI-driven applications and interactive web solutions using Flask, React, and REST APIs.

Education

B.Tech – Artificial Intelligence and Data Science, K.L.N. College of Engineering, Sivagangai — 2022 – 2026
CGPA: 8.3 (up to 6th Semester)

HSC – Higher Secondary Schooling, CSR Memorial Matric Higher Secondary School, Madurai — 2022
Percentage: 85%

Technical Skills

Languages: Python, Java, C, SQL, JavaScript
AI & ML: Machine Learning, Deep Learning, Computer Vision, NLP, RAG, LLMs
Frameworks & Libraries: TensorFlow, Keras, LangChain, HuggingFace
Web & Tools: Flask, FastAPI, SQLAlchemy, React, Streamlit, Docker, Git, Azure
Databases: MySQL, MongoDB

Work Experience

Software Developer Intern – Jaran Technology Services — January 2025 – March 2025
Developed and deployed a web-based billing system using Flask, React, and SQLAlchemy with RESTful APIs and MySQL integration.

Python Developer Intern – Tarcin Robotics — April 2025 – June 2025
Built AI-integrated web apps including a handwritten text recognition system and medical chatbot by fine-tuning existing ML models.

Projects

Virtual Fencing System — 2025
- Real-time AI surveillance system using YOLOv8 and OpenCV for virtual boundary monitoring.

Campus Assistant Bot — 2025
- RAG-powered chatbot using LangChain and HuggingFace for campus information retrieval.

Brain Tumor Segmentation App — 2024
- U-Net model deployed via Flask for MRI-based tumor segmentation.

Alzheimer's Detection System — 2024
- CNN-based classification model for early-stage detection using MRI scans.

Achievements & Leadership

- **Algorithmic Problem Solving:** Solved 230+ problems on LeetCode covering most DSA algorithms consistently in Java and Python, demonstrating strong analytical and problem-solving skills.

- **President – AISTHETICA Symposium:** Led the department's flagship AI & Data Science event with 5 activities and 350+ participants, managing all teams and coordinating logistics to ensure success.

- **Organizer – TENSORA 2K25 Hackathon:** Orchestrated a national hackathon with 100+ participants from 10+ colleges, featuring 20 problem statements across 5 themes. Managed teams, conducted 3-level evaluations, and ensured smooth execution.