Harshala Rani

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TECHNICAL SKILLS

Languages: Python, C++, TypeScript,Java,Javascript
Front End: HTML, CSS, Figma
Frameworks: React JS, FastAPI, Streamlit, Next JS, Express JS, Node JS,TensorFlow, Pytorch,Django
Technologies: SQL, NoSQLI, Cloud Computing, AWS Services, Docker,CI/CD Pipeline,RESTful API,SQL Alchemy.
Libraries: Pandas, NumPy, SciPy, Matplotlib,Langchain,LLM
Databases: MongoDB

EXPERIENCE

ML Internship at Hinge-Health   **August 2024-June 2025**
Scaled and optimized ML models for computer vision using **FastAPI, AWS, and serverless architecture**. Streamlined workflows with **containerization, CI/CD, and automated pipelines**, enhancing physiotherapy exercise recommendations.

Data Analytics Intern at U&I   **January - March 2024**
Analyzed student scores **using Python and Pandas**, managed datasets, and integrated mixed data for insights. Identified learning gaps, improving outcomes for 350 students and optimizing teaching strategies for 300+ volunteers.

Internship at Sitara (NGO)   **27th February to 12th April 2023**
Designed 5 inclusive Teacher Instruction Kits using braille, audio, and multisensory tools for visually impaired kids, enhancing accessibility and educational empowerment through collaborative research and resource development.

PROJECTS

[FoodIQ](#) – Intelligent Diet Recommendation System
Built an end-to-end system using **TensorFlow**, **PyTorch**, and **FastAPI** that identifies Indian food from images, estimates portion size via **MiDaS**, and generates personalized diet advice using **OpenAI LLM**.
- Developed a responsive **React.js** frontend and Dockerized backend for scalable deployment.
- Impact: Recognized 25+ Indian dishes and helped users gain personalized dietary insights to improve health awareness.

[Class Planning Application](#)
Built an end-to-end academic planner using **FastAPI**, **PostgreSQL**, and **React.j**s to help NGO volunteers structure lessons over a 9-month period (July–March).
- Supports topic auto-suggestions via syllabus JSON and downloadable Gantt chart generation
- **Impact:** Adopted by 100+ volunteers across 40 centres, streamlining lesson planning and improving content consistency

[No Offense, But](#) – Youth-Centric Blog Platform
Developed a personal blog using **React.js** to share stories and insights on challenges faced by young adults today.
- **Impact:** Reached a growing audience by voicing underrepresented experiences and sparking honest conversations

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LEADERSHIP/VOLUNTEERING

Founder & Author, *No Offense, But*   **June 2023 – Present**

Oversee operations, write engaging articles, and drive business and marketing strategies.

Chapter Leader & Learning Centre Leader, U&I   **June 2023 – Present**

Leading a team of 150+ volunteers, applying leadership, public speaking, and problem-solving skills.

Teachers By Choice   **April 2023– Present**

Online Math & Science tutor for school students.

Senior Coordinator, IEEE Computer Society & BMSCE Phase-Shift   **June 2022 – Dec 2023**

Managed marketing, content writing, event planning, and networking.

EDUCATION

Computer Science Engineering | BMS College of Engineering, Bangalore | CGPA: 8.75 | 2021-25