SELIN FRAJJA S

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EDUCATION

Chennai Institute of Technology, Chennai   **CGPA: 8.7**
Bachelor of Engineering in Computer Science (Artificial Intelligence and Machine Learning)   *Sep 2023 - Present*

EXPERIENCE

National Institute of Technology, Trichy - *Research Intern*   **Dec 2024 & May 2025**

- **Multi-Face AI Lip Syncing System** - Developed a multi-face lip syncing system using Wav2Lip, OpenCV, and FFmpeg to align each face in a video with its respective audio track.

- **NIT Trichy Internship Portal** - Built a full-stack internship portal for NIT Trichy using React, Node.js, Express.js, and MongoDB.

- **Multimodal Interview Chatbot** - Developed an AI interview chatbot using DeepFace, MFCC, Whisper, and Gemini API for emotion detection, audio transcription, and intelligent question generation.

- **ISRO Project** - Worked on configuring a multimodal project for ISRO.

Acmegrade Pvt.Ltd, Bangalore - *Virtual Internship*   **May 2024**

- **AI-ML** - Gained hands-on experience in Machine Learning, Deep Learning, and Computer Vision, while working with tools like Pandas, NumPy, and understanding the basics of model deployment.

PROJECTS

Multilingual AI Healthcare Assistant | *NLP, Deep Learning (VGG-16), OpenStreetMap, MongoDB*   **Jan 2025**

- Users interact with the chatbot in Tamil, Hindi, or English to describe symptoms or upload skin images.
- The system uses a VGG-16 CNN model to predict skin diseases and stores medical history in MongoDB.
- It offers telemedicine support for remote consultations and locates nearby hospitals using OpenStreetMap.

Face Recognition Attendance System | *OpenCV, face_recognition, Flask, OpenPyXL, SMTP*   **Sept 2024**

- Captures attendance using real-time face recognition with OpenCV and face_recognition.
- Logs name, date, in-time, out-time, and work duration in an Excel sheet.
- Calculates daily wages based on duration and sends email alerts to latecomers.

Real Time Weed Detection Robot | *Raspberry Pi5, IoT, Object Detection, ROS*   **Jul 2024**

- Captures live field images using a camera and detects weeds using deep learning models.
- Differentiates between crops and weeds in real-time using OpenCV and trained CNNs.
- Sends signals to the robotic arm to remove weeds precisely, guided by GPS and ROS.

CERTIFICATIONS

- **Cisco:** Introduction to Cybersecurity, Cybersecurity Essentials, Networking Essentials
- **Coursera:** Algorithms on Strings and Graphs
- **AICTE Eduskill:** Google AI-ML Virtual Internship, Celonis Process Mining Virtual Internship,
- **UiPath:** Automation explorer for students (Skillathon)
- **Energy Swaraj Foundation:** Certificate of Energy Literacy
- **NPTEL:** Parallel Computer Architecture certification
- **MongoDB:** MongoDB Basics for Students

ACHIEVEMENTS

- Awarded special prize in TNWISE'25 Hackathon
- Offered an internship at Techdivathon'25 Hackathon (24 hours)
- Finalist in Smart Hack'24 Hackathon (48 hours)
- Participated in Google Charcha'24
- Runner-up in Electrothon'24

SKILLS

Programming: Proficient in C++, Python, Java, ReactJS, HTML, CSS and JS
Problem-Solving: Solved 550+ LeetCode problems (18 badges) – contest rating – 1700+
DSA: Deep knowledge of data structures and algorithms, focusing on scalability.

AI & ML: Hands-on experience in AI/ML, developing intelligent systems.
Aptitude: Strong logical reasoning, quantitative aptitude, and analytical skills.
Communication: Fluent in English with strong verbal and written skills.
Tools: Git, Ollama, React.js, Node.js, Express.js, Streamlit, PyTorch, MongoDB, Whisper, DeepFace, FFmpeg, Google Gemini API, n8n.