

# SELIN FRAJJA S

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Portfolio

LinkedIn

Github

## EDUCATION

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### Chennai Institute of Technology, Chennai

Bachelor of Engineering in Computer science (Artificial Intelligence and Machine Learning)

CGPA: 8.6

Sep 2023 - Present

## EXPERIENCE

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### 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, 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.

### 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

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### 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

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- **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, Google Cloud Computing Foundations 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

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

## SKILLS

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**Programming:** Proficient in C++, Python, Java, ReactJS, HTML, CSS and JS

**Problem-Solving:** Solved 500+ [LeetCode](#) problems (15 badges)

**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, Streamlit, PyTorch, MongoDB, Whisper, DeepFace, React, Node.js, Express.js, FFmpeg, Google Gemini API.

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