

GIRIDHARAN M

K.S.RANGASAMY COLLEGE OF TECHNOLOGY

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CAREER OBJECTIVE

Motivated AI/ML enthusiast with hands-on experience in developing real-time intelligent systems and automation workflows. Successfully completed an internship in the AI/ML domain, where I built impactful solutions like a sign language recognition system, a smart shop assistant, and a weather-based food recommendation app. Skilled in both programming and no-code platforms such as n8n, I'm passionate about creating accessible AI-powered tools that solve real-world problems.

TECHNICAL SKILLS

Languages:	AI/ML:	Automation:
1) Python, 2) Java, 3) C	OpenCV, Mediapipe, Dlib, CNNs, face_recognition	API Integration, AI Agents in n8n pandas, matplotlib

INTERNSHIP

AI/ML Intern	March 2025 - Present
<ul style="list-style-type: none">Developed three fully functional AI-based applications:Hand Sign Detection System using Mediapipe and CNNShop AI Assistant that recommends which dresses to stock/promote using sales predictionWeather- and Time-Based Food Suggestion App using real-time APIsIntegrated APIs for GPS-based location detection, weather info, and notification servicesUsed n8n to automate workflows, build AI agents, and manage GitHub automation pipelines	

INTERESTS

- AI-powered applications and automation
 - Data analytics and machine learning
 - No-code platforms and creative problem-solving,
 - Exploring new APIs and open-source collaboration

Bachelor of Engineering	2023 - 2027
<p>Engineering College</p> <ul style="list-style-type: none">K.S.RANGASAMY COLLEGE OF TECHNOLOGY	

ACHIEVEMENTS

- Solved 150+ problems on LeetCode
- Participated in several coding challenges and online competitions
- Built 10+ real-world applications in AI, ML, and automation
- Represented college in volleyball tournaments
- Advanced user of n8n, GitHub automation, and API integrations

MAIN Projects:

1) Sign Language Detection (A–Z)

Tech: Python, Mediapipe, CNN

- Created a full pipeline from hand detection to character classification.
- Trained a CNN on extracted hand landmarks to identify letters from webcam input.
- Useful for accessibility and communication for speech-impaired individuals.

GITHUB LINK:

<https://github.com/MGDharan/sign-language.py>

2) Shop AI Assistant – Dress Forecasting Engine:

- Tech: Python, pandas, matplotlib, AI agent in n8n
- Analyzes past sales data and suggests which dress categories to promote on specific days or months (e.g., November).
- Helps store owners make stock decisions using predictive analytics.
- Integrated into an AI chat interface for conversational recommendations.

GITHUB LINK:

<https://github.com/MGDharan/sales-chatbotxt>

3) Food Recommendation App Based on Weather & Time:

- Tech Stack: Python, WeatherAPI, LocationIQ, Pushbullet, Twilio
- Recommends meals based on current temperature, location, and time (e.g., breakfast/dinner).
- Avoids repetition, categorizes food, and sends suggestions via notifications.

GITHUB LINK:

<https://github.com/MGDharan/internship-/blob/main/food%20suggestion.py>

LANGUAGE KNOWN

- English
- Tamil