

# NAGARAJ M

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## PROFILE

Dynamic fresher with a strong foundation in AI, visualization, and full stack web development, complemented by proven public speaking skills. Focused on pursuing a career in AI Engineer&data science and intelligent systems.

## EDUCATION

**Kathir College Of Engineering ,coimbatore-India** (2023 – 2027)

**Bachelor of Technology** in Artificial Intelligence &Data Science

**Current CGPA:** 8.4%

## SKILLS

**Technical:** Python-Tensorflow/Keras,Scikit-learn,Matplotlib,Pytorch,Flask/FastAPI,Huggingface , AWS,RAG,LLM APIs, MERN Stack(Node.js,React)

**Tools:** Claude,Excel,MS-Word,Vs Code, Jupyter,Git&GitHub, Linux,Versal Control,Adobe AE,Figma

## CERTIFICATIONS

- Completed MVP – AI-Powered App Internship, certified by Boredom Technologies LLP.
- Completed Public Speaking and Excel Essential Training (Microsoft 365), certified by PMIS via LinkedIn Learning platform and certified with various platform
- Attained a 1-month Data Science Internship at Cognifyz, where I gained practical experience in data preprocessing, visualization, and modeling.
- Completed an AWS Cloud Internship,certified by SmartBridge, gaining hands-on experience in cloud services and backend development,Developed a real-time travel booking platform using Flask, AWS EC2, DynamoDB, and SNS.

## EXPERIENCE

**Marketing Assistant** Mother Education Trust 2024 – Present

- Assisted in planning and executing marketing campaigns to promote educational programs.
- Managed outreach efforts, helping increase student engagement and awareness.

**Communication Club Co-ordinator** - KCE 2024-25

- Department of AI&DS Club Association projects

**Vice President** – Rotaract Club of Kathir College of Engineering 2025 – Present

- Collaborated on community service & ISD projects, leadership events, and campus initiatives.
- Supported team coordination and communication as part of the executive board.

## PROJECTS

### 1. EcoAI – Smart Carbon Tracker & Personal Sustainability Coach

Developed a complete sustainability tracking web app using Next.js & TypeScript to track carbon emissions and offer AI-driven eco-friendly suggestions. Designed responsive UI elements, React Hooks (useState, useEffect), dynamic routing, and API integration for data management and customized analysis.

**Skills Gained** – Next.js, OpenAPI, HTML&CSS

### 2. Voice Assistant Using Python

Developed a voice assistant using Python that can understand and execute voice commands. Used the Speech Recognition and Text-to-Speech modules to make the virtual assistant interactive. Added features such as web browsing, fetching time and date, and automating local tasks. Used libraries such as speech\_recognition, pyttsx3, and webbrowser to create an interactive system.

**Skills Gained** – Python, SpeechRecognition, pyttsx3, Basics of NLP

### 3. AI-Driven Crop Disease Identification through Image Recognition

Developed an AI-driven crop disease identification system using image recognition, which employs a deep learning model based on Convolutional Neural Networks (CNN) to identify diseases in plant leaves from images. Designed image preprocessing and augmentation, model training, and evaluation for high accuracy in disease classification. The proposed system allows for early disease detection to facilitate precision farming and enhance crop output.

**Skills Gained** – CNN, TensorFlow/Keras, OpenCV.

### 4. Aura Hr Solution Private LTD Website

Designed a new web-based reporting system for HR, with a Management, Student and Admin dashboard to handle records, produce reports, Project Submission and monitor updates effectively. Also incorporated role-based security, dynamic data processing, and a clean UI for a seamless workflow.

**Skills Gained**- Frontend, Backend, MongoDB, UI&UX

### 5. Offline ChatPDF using Local LLM (Ollama) – RAG Based Document Q&A System

Built a completely offline ChatPDF application where users can upload PDF files and pose questions without relying on any external API or internet connectivity. Developed a Retrieval-Augmented Generation (RAG) pipeline with embeddings and FAISS similarity search, and also generated responses using a locally hosted LLM through Ollama.

**Skills Gained**- Local LLM Deployment, RAG Architecture, PDF Text Processing, Embeddings, Vector Search, Full-Stack AI App Development

## ACHIEVEMENTS

- Awarded **Best Poster Presentation** at various College technical and non-technical symposiums.
- Nominated for Inspire Award science projects and kamarajar award
- Recognized as **Outstanding Performer** during AI-Powered App Internship at Boredom Technologies LLP.