

MANIKANDAN K.B

AI Developer • Full-Stack Developer • System Architect

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🌐 GitHub 📁 Portfolio

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📍 Anbil, Tiruchirappalli, Tamil Nadu

🌐 LinkedIn



SUMMARY

AI Developer and **Full-Stack Engineer** with strong system administration skills. Currently crafting intelligent voice assistants and AI solutions at Tech Vaseegrah using **LLMs**, **STT**, and **RAG systems**. Known for solving real-world problems by bridging software and hardware through rapid learning and practical development.

EXPERIENCE

AI Developer Intern

Tech Vaseegrah

📅 Jan 2025 – Present

📍 Thanjavur, Tamil Nadu

- Built a voice-based assistant using Whisper STT and LLMs.
- Designed a query classifier with RAG integration.
- Optimized NLP pipeline for faster responses.

Freelance PC Technician

Independent

📅 Jan 2020 – Present

📍 Tiruchirappalli, Tamil Nadu

- Solved 500+ customer PC issues (hardware/software/network).
- Built custom systems for gaming, AI, and general use.
- Performed OS installs, BIOS configs, thermal optimizations, LAN setups.

PROJECTS

Tomato Quality Classification System

Independent Project

📅 Aug 2024 – Dec 2024

📍 Tiruchirappalli

- Built CNN-based grading model (97.5)
- Created React + Node.js interface for real-time predictions.

College Complaint Management System

Academic Project

📅 Jan 2023 – May 2023

📍 St. Joseph's College

- MERN stack web portal for IT complaint tracking and resolution.
- Integrated admin dashboard and automated status notifications.

Voice-Powered RAG Chatbot

Internship Project, Tech Vaseegrah

📅 Jan 2025 – Present

- Built voice-enabled chatbot using Whisper STT and RAG pipeline for accurate text-based interactions.
- Developed smart cart with memory-based checkout for seamless user transactions.

ACHIEVEMENTS

- Resolved 500+ PC hardware and software complaints as a technician.
- Achieved 97% + accuracy in image-based grading ML models.
- Designed voice-controlled RAG agent with real-time cart handling.

SOFT SKILLS

Problem Solving

Adaptability

Self-Learning

Time Management

TECH STACK

• Languages

Python

JavaScript

C

C++

PHP

HTML/CSS

• Frameworks Libraries

React.js

Node.js

Express.js

MERN Stack

• Databases Tools

MongoDB

SQL

MySQL

• Domains

AI Development

System Admin

Speech Recognition

LLMs

EDUCATION

Master of Computer Applications (MCA)

SASTRA Deemed University

📅 2023 – Present

📍 Thanjavur

SGPA: 7.0 / 10

Bachelor of Computer Applications (BCA)

St. Joseph's College

📅 2020 – 2023

📍 Tiruchirappalli

Higher Secondary (CBSE)

Nava Bharath Vidyalaya

📅 2019 – 2020

📍 Tiruchirappalli

LANGUAGES

English (Fluent)