MANIKANDAN K.B

AI Developer | Full-Stack Engineer | System Administrator

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SUMMARY

AI Developer and Full-Stack Engineer with strong system administration skills. Experienced in building **voice-based assistants**, **ML models**, and scalable web apps using **LLMs**, **RAG**, and **STT**. Currently delivering real-time AI solutions at Tech Vaseegrah by bridging software and hardware through rapid learning and practical development.

EXPERIENCE

AI Developer Intern
Tech Vaseegrah

📅 Jan 2025 – Present   📍 Thanjavur

- Built voice assistant using **Whisper STT**, LLMs, and RAG.
- Designed query classifier with fast NLP pipeline.

Freelance PC Technician (Part-time)
Independent

📅 Jan 2020 – Present   📍 Tiruchirappalli

- Resolved 500+ PC issues: hardware, OS, networks.
- Custom built PCs for AI and gaming workloads.

PROJECTS

Voice RAG Chatbot
Intern Project

📅 Jan 2025 – Present

- Built speech-enabled chatbot using **Whisper STT**, RAG, and LLMs.
- Integrated smart cart with memory-based checkout flow.

Tomato Grading System
Personal Project

📅 Aug 2024 – Dec 2024

- Built CNN model (97.5%) using transfer learning for image classification.
- Deployed with **React** frontend and **Node.js** backend.

Complaint Management Portal
Academic Project

📅 Jan 2023 – May 2023

- Created MERN stack system to log and track IT complaints.
- Added role-based dashboard and email alerts.

ACHIEVEMENTS

- Delivered high-quality solutions resolving **500+** real-world PC complaints independently.
- Achieved over **97% accuracy** in computer vision-based ML classification systems.
- Engineered a **voice-activated AI assistant** with live cart manipulation and real-time responses.

SOFT SKILLS

Analytical Thinking   Adaptability   Quick Learning   Time Management   Team Collaboration

TECHNICAL SKILLS

- Languages

  Python   JavaScript   C   C++   PHP   HTML/CSS

- Frameworks Libraries

  React.js   Node.js   Express.js   MERN Stack   Flask

- Databases Tools

  MongoDB   SQL   MySQL

- Domains

  AI Development   System Admin   Speech Recognition   LLMs   RAG

EDUCATION

Master of Computer Applications (MCA)
SASTRA Deemed University

📅 2023 – Present   📍 Thanjavur

CGPA : 6.93 / 10

Bachelor of Computer Applications (BCA)
St. Joseph's College

📅 2020 – 2023   📍 Tiruchirappalli

CGPA : 7.80

Higher Secondary (CBSE)
Nava Bharath Vidyalaya

📅 2019 – 2020   📍 Tiruchirappalli