

Nithyashree R

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PROFESSIONAL SUMMARY

Leverage expertise in Python, Java, AI/ML, data structures, algorithms, and SDLC to innovate software solutions in teams. Eager to grow as a software engineer through problem-solving, teamwork, and proactive learning in the tech industry.

EDUCATION

Dr Ambedkar Institute of Technology

Bachelor of Engineering in Computer Science and Engineering CGPA: 9.2

Bengaluru, Karnataka

Dec. 2022 – Aug. 2026

BASE PU College

Pre University Education, PCM-89 percent

Bengaluru, Karnataka

June 2020 – May 2022

TECHNICAL SKILLS

Languages and frameworks: Python, C, Java, MySQL, MongoDB, JavaScript, MERN Stack, React JS

Developer Tools: Git/GitHub, Google Cloud Platform (GCP), FastAPI, AWS

DataScience and AI ML: TensorFlow, Hugging Face, OpenCV, LLMs, Fine-tuning, Langchain, RAG, Embeddings

Relevant Coursework: Data Structures, Algorithms, Operating System, Database Management, OOPS, Software Engineering, SDLC Concepts, Distributed Systems, Debugging

Soft Skills: Problem-solving, Communication, Teamwork, Adaptability, Leadership, Innovation

PROJECTS

DRISHTI-Dynamic Real-time Intelligent Scene Handling & Text Interpretation | *LLMs, Embedded System*

- Prototyped assistive edge AI device for visually impaired using ESP32-CAM and fine-tuned smolVLM model for vision/OCR tasks, achieving 85% scene interpretation accuracy.
- Integrated Bluetooth audio feedback through edge-cloud communication, improving user navigation efficiency by 35%.

RAG Based Recipe Recommendation System | *Python, Gemini, BGE m3, Langchain, VectorDB*

- Utilized RAG and LLM APIs to generate unique recipes based on user input and dietary preferences.
- Used Langchain and Gemini to enable natural language understanding and generation, implemented system-level debugging and agile SDLC for robust testing on prototypes.

Voice Controlled Chat Application | *MERN, Google Speech-to-text, WebSpeech API*

- Integrated voice recognition APIs to enable hands-free communication, with a 85% speech recognition accuracy rate tested over 100 interactions.
- Utilized Node.js and MERN Stack to design user-friendly applications, to write code, test, debug and maintain the software across web platforms.

Other Projects: *Intelligent legal document analyzer, Retail Application(MERN Stack), Visual Memory Game(Java)*

ACTIVITIES AND ACHIEVEMENTS

GenAI Exchange Hackathon- Legal Document Demystifier

Aug. 2025 – September 2025

AI Developer

Bengaluru

- Built an AI tool to analyze and simplify legal documents using Gemini and Vertex AI, offering clause-wise risk scores and negotiation tips.
- Integrated PDF parsing with Firebase and GenAI SDK for real-time, user-friendly contract insights.

National Level Hackathon - Kodikon 4.0 at PES University

Oct. 2024

Team Leader

PESU, Bengaluru

- Led team to build speech recognition conversational app, being in top 20 of 500+ applicants.
- Built a secure, responsive application with real-time messaging, file sharing support ensuring a seamless and private user experience.

CERTIFICATION

Applied Data Science with Python

August 2025

Python, Matplotlib, scikit-learn

IBM

Artificial Intelligence Primer Certification

July 2025

(View Certificates: drive.google.com/Nithyashree)

Infosys Springboard