

# Akarsh J

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## SUMMARY

Dedicated Software Developer with strong foundations in Computer Science and hands-on experience in AI, ML, and Full-Stack Development. Skilled in building efficient systems and delivering real-world problem-solving solutions.

## EDUCATION

**NSS College of Engineering, Palakkad (KTU)**

Expected 2025

*B.Tech in Computer Science and Engineering — CGPA: 7.43*

## EXPERIENCE

**Machine Learning Intern**

Jun 2024 – Aug 2024

*Coincent in association with Fox Trading*

- Implemented supervised learning models using Python on real-world datasets.
- Participated in expert sessions focused on practical applications of machine learning.

**Artificial Intelligence Intern**

Oct 2022 – Nov 2022

*Teachnook in collaboration with AICAN*

- Applied AI techniques in model development, data preprocessing, and deployment tasks.
- Contributed to real-time applications utilizing core AI tools and frameworks.

## PROJECTS

**Movie Ticket App** | *MERN Stack, Redux, JWT, MUI*

Full-Stack

- Built a full-stack movie booking system with user/admin dashboards, authentication, and responsive UI.
- Implemented RESTful APIs using Express and MongoDB with JWT authentication and Redux state management.

**Voz Clara** | *Edge AI, Jetson Orin Nano, CUDA, Quantization*

VQA for Blind

- Deployed real-time Visual Question Answering system for the visually impaired using optimized edge models.

**H-Botix** | *LangChain, FAISS, Llama-2, Chainlit*

AI Medical Assistant

- Developed a GenAI-powered medical chatbot using retrieval-augmented generation for reliable health insights.

**AI-Generated Text Detection System** | *PyTorch, BERT, Keras*

Deep Learning

- Built a system to detect AI-generated text using deep learning models trained with GPU acceleration.

## CERTIFICATIONS

Microsoft Azure AI Fundamentals – Aug 2024

AI Course Completion – IIT Bhubaneswar – Nov 2022

Certificate of Excellence – FOSS Hackathon – Apr 2024

## TECHNICAL SKILLS

**Languages:** C, Java, JavaScript, Python, SQL, NoSQL, HTML, CSS

**Frameworks/Tools:** Node.js, React, Express, Git, VS Code

**Databases:** MongoDB, MySQL, FAISS (Vector Database)

**Concepts:** Data Structures, Algorithms, RESTful APIs, DevOps, ML, AI

## ADDITIONAL INFORMATION

**Languages:** English, Malayalam, Hindi

**Soft Skills:** Adaptability, Time Management, Collaboration

**Volunteer:** Active NSS Volunteer (Team Coordination & Event Management)