

RAJAPANDI B

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EDUCATION

Sethu Institute of Technology
Bachelor of Technology - computer science and business systems; GPA: 7.27
Courses: Computer Vision, Artificial Intelligence, machine learning, deep learning, Edge Computing, Data Structures & Algorithms

Tamil Nadu, India
July 2022 - June 2026

SKILLS SUMMARY

- Languages:** C, C++ , Python (for AI/ML, data analysis, and computer vision)
- Frameworks:** OpenCV, TensorFlow, Keras, Scikit-learn, NLTK,
- Tools:** GIT, MySQL, SQLite
- Platforms:** Web, Windows, Arduino, Raspberry,
- Soft Skills:** Leadership, Event Management, Problem Solving, Critical Thinking, Time Management

EXPERIENCE

- NoviTech R&D Private Limited** Remote
(Intern - Artificial Intelligence) 13th June 2024 – 13th July 202024
 - Developed object detection models and processed images to enhance visual data analysis.
 - Improved model accuracy through effective data preprocessing and augmentation.
 - Collaborated with the team to implement real-time machine learning algorithms for object detection.
- Cognifyz Technology.** Remote
(Intern - Machine Learning) July 2024 - August 2024 (1 month)
 - Assisted in developing machine learning models for predictive analytics and data classification.
 - Engaged in feature engineering and model evaluation to optimize performance.
 - Collaborated with team members on data-driven projects, enhancing decision-making processes.

PROJECTS

- Advanced Edge AI Navigation and Assistance System for Blind**
Developed a computer vision-based navigation system to empower visually impaired users with real-time object detection, person recognition, and environmental awareness. The system reads and speaks written notices, enabling safe and independent navigation.
Tech: Python, OpenCV, TensorFlow, Raspberry Pi
- Real-Time Gesture Recognition System**
Designed and implemented a real-time gesture recognition system using deep learning models to identify hand gestures, enhancing interaction for assistive technology applications. The system features a lightweight architecture for efficient processing on edge devices.
Tech: Python, TensorFlow, OpenCV, Keras
- Automated Book Reader for the Visually Impaired**
Created a system that utilizes computer vision to detect text in books and read it aloud, providing an accessible solution for visually impaired users. The project leverages OCR and text-to-speech technologies for seamless interaction
Tech: Python, OpenCV, Tesseract OCR, gTTS
- Automated Vision Systems for Tracking and Mapping Urban Wildlife Activity**
System designed to detect and monitor urban wildlife using computer vision techniques, facilitating data collection and analysis of animal behavior and movement patterns.
Tech: Python, TensorFlow, OpenCV, Raspberry Pi

PUBLICATIONS

- Advanced Edge AI Navigation and Assistance System for Blind Users**
Published in *International Journal for Multidisciplinary Research (IJFMR)*, Volume 6, Issue 5 (September-October 2024).
This paper presents an innovative AI-powered navigation system designed for visually impaired users. It integrates real-time object detection, person recognition, text reading, and traffic signal response, all while operating efficiently on low-power mobile platforms.

HONORS AND AWARDS

- First Place** – *Winning Paper Presentation*, K.S.R College of Engineering, 2022
- Honours Diploma in Computer Application (HDCA) Completed

VOLUNTEER EXPERIENCE

- Sethu Institute of Technology, CSBS Department (March 2024)**
Led the planning and execution of the departmental symposium, coordinating events and managing logistics effectively.
- Organizer, College Hostel Day, Sethu Institute of Technology [October 2023]**
Successfully coordinated the planning and execution of the college hostel day, managing logistics and organizing activities.
- Engaged students and faculty, fostering a sense of community and collaboration among hostel residents.