

# KARTHIKEYAN P

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Portfolio: [karthikeyanpalani-portfolio.netlify.app/](https://karthikeyanpalani-portfolio.netlify.app/)

## Professional Summary

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A Final-year Computer Science and Engineering student with hands-on experience in Java, full-stack development, and AI-based systems. Strong foundation in object-oriented programming, data structures, and the software development lifecycle, with proven ability to design and build scalable, user-focused applications through academic projects and industry internships.

## Education

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**B.E - Computer Science and Engineering - Hindusthan Institute of Technology** 2022-2026 | Coimbatore

Current CGPA: 8.1 / 10 (up to 7th semester)

**HSC - Vijay Vidyalaya Groups of Institution**

2021-2022 | Tirupattur

Percentage – 80%

**SSLC - Daniel Thomas Matriculation School**

2019-2020 | Chennai

Percentage – 66%

## Technical Skills

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**Programming Languages:** Java (Intermediate), Python (Beginner)

**Web Development:** HTML, CSS, JavaScript, React.js

**Frameworks, Backend & Databases:** Spring Boot, Maven, Flask, SQLite, MongoDB

**AI / ML & Computer Vision:** Machine Learning, OpenCV, TensorFlow, Roboflow, Speech Recognition (Beginner)

**Software Tools:** Git, GitHub, VS Code, PyCharm, IntelliJ IDEA, Google Colab

**Other Skills:** Prompt Engineering, MS Word, Excel, PowerPoint

## Projects

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- **AI Sentiment & Grammar Analyzer** - Created an NLP-driven text analysis application using DistilBERT and T5 models to perform sentence-level sentiment analysis and grammar correction, featuring a Flask-based web interface and visualization components for clear and interpretable language insights.
- **Employee Management System** - Built a full-stack employee management application using Java, Spring Boot, and Maven, applying OOP concepts and Java Collections to manage employee data, with an HTML/CSS frontend, ensuring modular design, data integrity, and efficient administrative workflows.
- **Robot Voice Assistant** - Developed a modular AI-powered voice assistant using Python, Speech Recognition, and Text-to-Speech, incorporating an intent handling engine, command routing mechanism, and a scalable skill-based architecture for voice interaction, system operations, and hardware integration.

- **AI-Driven Banking Security System (Attack vs Defense Simulation)** - Implemented a Python and Flask-based security simulation to model cyber attacks and defensive responses with real-time system status monitoring and intrusion detection logic.
- **Real-time Face Recognition** - Developed a real-time face recognition system using Python and computer vision techniques, implementing automated face data collection, dataset generation, and model training, enabling accurate real-time identification of multiple individuals through live camera input.

## Experience

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- **Web Development Intern - Trio's Technology**  
Developed responsive web interfaces using HTML, CSS, and JavaScript, enhanced UI performance, ensured cross-browser compatibility, and assisted in debugging, testing, and frontend component integration.
- **Software Developer Intern - Make Clouds (Ongoing)**  
Worked on application development and feature implementation, contributed to backend logic and system workflow design, collaborated with cross-functional teams on real-time projects.

## Achievements

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- Solved 80+ algorithmic problems on LeetCode, strengthening problem-solving and data structures fundamentals.
- Participated in Raiseathon 2024, a technology-focused hackathon promoting innovation and teamwork.
- Selected as a Delegate for the ICT Academy of Tamil Nadu Youth Summit 2023.

## Certifications

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- **Java Foundation Certification** - Infosys Springboard
- **Machine Learning Foundation Certification** - Infosys Springboard

## Language

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- **English** - Read, Write & speak
- **Tamil** - Read, Write & speak

[ Karthikeyan P ]