

# KARTHICK RAJA E

+91-8098620388 | [e.karthickraja2004@gmail.com](mailto:e.karthickraja2004@gmail.com) | [LinkedIn: KarthickRaja](#) | [GitHub: Karthickraja018](#)  
Leetcode: [Karthick004](#) | [Coimbatore](#) | Portfolio: [Karthickraja](#)

## Professional Summary

Motivated Machine Learning student with a strong foundation in Python, SQL, machine learning concepts, web development and data visualization. Passionate about leveraging data-driven insights to solve real-world problems and drive innovation.

## Skills

**Programming Languages:** Python, C, Java

**Web Development:** HTML, CSS, JavaScript(basics)

**Databases:** MySQL, PostgreSQL

**Frameworks & Libraries:** Pandas, Numpy, Matplotlib

**Technologies:** Tensorflow, FastAPI, Flask, OpenCV

**Tools & Platforms:** MS Excel, VS Code, Git, Postman, n8n

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

## Work Experience

### Machine Learning Intern

March 2024 - April 2024

Cognifyz Technology

- Assisted in building and optimizing machine learning models for real-world applications.
- Pre-processed large datasets, enhancing data quality and feature selection.

## Education

### SNS College of Technology

2022-2026

Bachelor of Technology in Artificial Intelligence & Machine Learning

CGPA: **8.8** (5th semester)

### DSM Higher Secondary School

2019-2022

Higher Secondary Education

Percentage: **89%**

SSLC (10th Grade)

Percentage: **89%**

## Certifications

- DBMS Course** – Infosys Springboard May 2024
- NPTEL Computer Vision Course** – NPTEL July-October 2024
- Machine Learning Course** – Infosys Springboard July 2024
- Generative AI Introduction** – Skillible July-August 2024

## Projects

### Data Visualization AI (Python, Streamlit) [\[Link\]](#)

March 2025-April 2025

- Developed an AI-powered tool for generating interactive and insightful data visualizations.
- Integrated Pandas, Matplotlib, and Streamlit to enhance user experience and real-time analysis.

### Real-Time Animal Detection and Alert System for Farmlands (Python, OpenCV)

Nov 2024-Jan 2025

- The system detects animals in farmland using YOLOv8 and logs the detections with a user-friendly GUI.
- On detecting repeated intrusion, it triggers a siren and sends SMS alerts to the farm owner for timely action.

### Virtual Mouse using Gestures (Python, OpenCV, Mediapipe) [\[Link\]](#)

April 2024-May 2024

- Designed a gesture-based virtual mouse using OpenCV.
- Implemented hand-tracking algorithms to enable touch-free computer interaction.

## Achievements

- Secured Department First in the 3rd semester of B.Tech.
- Ranked among the Top 5 in Higher Secondary Certificate (HSC) Examination at school.