

Siddarth Thangaraj

 github.com/Siddarth305  Siddarth.com  [linkedin/Siddarth](https://linkedin.com/in/Siddarth)  Siddarth3055@gmail.com  6374415258

Objective

Aspiring to leverage my skills in Artificial Intelligence and Machine Learning to contribute to impactful projects and innovative solutions. Eager to grow as a developer and problem-solver in a challenging and collaborative environment.

Education

M.Kumarasamy College of Engineering
B.Tech Artificial Intelligence and Machine Learning

June 2026
Current GPA: 7.4/10.0

Bhaarath Vidhya Bhavan Matriculation Higher Secondary School
Computer Science

May 2022
Percentage: 80

Skills

Technical Skills:

- Programming Languages: Java, C++ (Intermediate)
- Web Development: HTML, CSS, JavaScript, React.JS, Node.JS (Basics)
- Database Management: SQL, MongoDB (Basics)
- Machine Learning: Python (Basics)

Soft Skills:

- Problem Solving
- Adaptability
- Teamwork and Decision Making
- Communication
- Logical Thinking

Projects

BotHub | *Integration of AI Tools*

Jan. 2024

- Designed and integrated AI tools into Bothub, improving functionality and performance through data-driven insights.
- Developed machine learning solutions and web development features to enhance user experience and system efficiency.

Smart Bin | *AI-Powered Waste Management System*

Sept. 2024

- Developed a SmartBin system utilizing AI and computer vision for real-time waste management.
- Implemented YOLO-based object detection models in OpenCV to classify waste objects and enhance automation.

ConvertHub | *Multi-functional AI Conversion Platform*

Mar. 2025

- Developed an AI-based web platform integrating code conversion, grammar checking, translation, and summarization modules.
- Used React for frontend and Gemini API for backend AI processing, ensuring modular and scalable integration.
- Improved accessibility for users by combining multiple intelligent services into a single cohesive interface.

Languages Known

- Tamil : Fluent
- English : Fluent
- Japanese: Beginner (N5 Level)

Paper Publication

Link: <https://ijirt.org/Article?manuscript=169606>

Publication Date: November 2024

Novelty:

- AI-based dustbin with notification and monitoring features with Intelligent waste classification system using TensorFlow and OpenCV. Monitoring application to notify the dustbin's fill level.