

# KARTHICK GANESH M



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## Career Objective

An aspirant web developer who combines the craft of programming with the study of data science and artificial intelligence in order to create data intensive applications. I'm a person who is willing to learn new things and who can readily understand complex works and work on them.

## Skills

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

**Proficient in:** Data Structures, Algorithms, AI, Machine Learning, Neural Networks, IoT, Embedded System , Canva

**Web Development:** HTML, CSS, JavaScript, Postman API, MongoDB

**App Development:** Flutter, Apache Cordova

**Databases:** Firebase, SQL, DBMS

**Soft Skills:** Fast Learner, Creative Problem Solver, Innovative Thinker, Strong Analytical Skills

## Education

**B. Tech in Artificial Intelligence and Data Science**

PSNA College of Engineering and Technology, Dindigul

Nov 22 - Apr 26

Dindigul

**High School**

Apr 21 - Apr 22

Mahatma Global Gateway (CBSE) School

Madurai

**SSLC**

Apr 19 - Apr 20

SBOA (CBSE) School

Madurai

## Professional Experience

### POSITION OF RESPONSIBILITY

**Toastmaster International Club**

Vice President Education Toastmaster Club

Sep 2023 - Sep 2025

(Present)

**Creative Writing Club PSNACET**

Vice President of Creative Writing Club

Sep 2023 - Sep 2025

(Present)

**Build Club PSNACET**

Build Club Member

Aug 2023 - Aug 2025

(Present)

**Robotic Club PSNACET**

Department Lead ( AI & DS)

Sep 2023 - Nov 2024

### MENTORSHIP

- Mentored a team of six in data science, concentrating on **Diabetes Prediction** to enhance **early detection** and optimize **patient healthcare**.
- As the **team lead of the Coders Club**, I managed a team of eight members, helping them develop their **coding skills in Java and Python**.
- Took on the role of **representative of the Shadow Club**, guiding and supporting various teams in their **projects and papers** to ensure their success.

### Letter of Recommendation

Winner of the **MI & ROBOTICS** Workshop and Received **Letter of Recommendation** (LOR).

## Patents

- G-Nut to P-Nut Streamliner with Automated Detection Sorting and Grading Using Advanced AI & IoT.**  
Publication Date : 23/08/2024  
Led a cross-functional team of six to develop an innovative model utilizing torsional force for splitting groundnut shells. Implemented a deep learning-powered camera system for sorting quality peanuts, integrated a roller sorter for size grading, and used load cells for precise weight measurement. Created a web and mobile interface displaying real-time data, including market prices and predicted oil yields, promoting efficiency in groundnut processing.

- Intelligent Roadside Accident Detection and Emergency Response System.**  
Publication Date : 23/08/2024  
Collaboratively developed a deep learning model for real-time accident detection with a team of three, leveraging surveillance cameras and smartwatch vital sign monitoring. This system enables rapid alerts to ambulances and traffic police, greatly improving emergency response times and overall safety.

## Projects

- 1.Trash To Tech (E\_BIN)**  
**Role :** Team Lead & ML Engineer  
Successfully build an working model of “**Trash to Tech (E\_BIN)**” to avoid single use of plastics in our environment and to segregate plastic, papers , and Tin cans to contribute waste reduction in our environment.
- 2.Environmental Monitoring System for Air Quality Index and Water Quality Index.**  
**Role :** Team Lead & Web Developer  
Built a model for real-time monitoring, analyzing and prediction of **AQI and WQI on Mobile Application.** which Provides instant details about AQI and WQI for assisting public awareness and aiding farmers in water decisions.
- 3.Diabetes Prediction**  
**Role :** Team Lead & Resource Manager  
Initiated an innovative **Diabetes Prediction Model** that leverages data science techniques to enhance early detection of risk factors from patient data and optimize patient healthcare.

## Course Certifications

Java FullStack (Core Java )	Magizhchi Software, 2024
Python ( Intermediate )	ALTECH, 2023
C & C++ Programming Languages ( Intermediate )	ALTECH, 2023
The Complete SQL Bootcamp - Zero to Hero	Udemy, 2024
15+ courses in great learning	2022 - 2024

## Competition Participated

Smart India Hackathon	Winner, (2024)
IITMIC Build To Innovate (Rural -Agri Edition)	Winner, (2024)
ROAD-A-THON District	Runner,(2024)
Madurai Productivity Council - Video Presentation	Runner,(2023)
Enviro-Solvers Hackathon (TNPCB)	Finalist,(2023)
PSG-Itech National	Finalist,(2023)
Smart India Hackathon	Finalist,(2023)

## Achievements

- Awarded 1st Prize** in Build To Innovate Challenge conducted by IITMIC and **received a cash award of ₹50,000 with Certificates of Merit.**
- Secured 1st Prize** in the Smart India Hackathon and **received a cash prize of ₹50,000 with Certificates of Merit.**
- Secured 2nd Prize** in the ROAD-A-THON 2K23 and **received a cash prize of ₹15,000 with Certificates of Merit.**
- Awarded 2nd prize** in a video presentation competition organized by Madurai Productivity Council and **recieved a Memento.**
- Selected as the **only team from the South Zone** among the top 15 by **Tamilnadu Pollution Control Board** and awarded a **Certificates of Merit.**
- Honored with the **‘Techie of the Year’** award at the Intra-Department Festival in April 2024.