

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.