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# THANUSH KANNAN

## AI ENGINEER

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[| LinkedIn](#) | [| GitHub](#) | [| Portfolio](#)

### EDUCATION

#### Dr. M.G.R. Educational And Research Institute

2021 - 2025

- B.tech Computer Science – Data Science and AI
- GPA: 8.9

#### Sri Sankara Matriculation Higher Secondary School

2019 – 2021

- 12th Grade (Intermediate)
- Percentage: 80%

### SKILLS

#### Programming Languages

Python, C++, JavaScript, HTML/CSS, SQL

#### Frameworks/Tools

Flask, Langchain, WordPress, Proteus (Simulation), IoT Development,  
Video Editing (Davinci Resolve), Poster Design (Canva)

#### Database

MySQL

#### Cloud Technology

IBM Cloud, Google Cloud Platform, Microsoft Azure

#### Soft Skills

Time Management, Teamwork, Communication, Problem Solving, Leadership

### EXPERIENCE

#### G Cloud Networks, Intern

Jun 2024 - Aug 2024

- Contributed to video editing, poster design, and website development.
- Assisted in various technical and creative projects, enhancing digital content and user engagement.

#### The Institution of Green Engineers (IGEN), Volunteer & SDG Researcher

Jul 2022 – Present

- Researched SDGs and contributed to AI-driven community safety projects.
- Developed websites for sustainability initiatives.
- I worked on website development and designed posters for IGEN's digital platforms.
- Organized key projects & events like IGEN MINUSCO2 and ENERGYTHON.

#### Institution of Engineers (India), Volunteer

Jan 2023 – Jun 2024

- Contributed to poster designs for events and campaigns.
- Organized and managed events like ENVIRONTHON, promoting engineering and technology awareness.

### PROJECTS

#### AI Integrated Community Safety Gadgets

- Developed an AI-driven system for community safety, including gas leak, fire, and medical emergency alerts.
- Built an IoT hardware device and a web app for real-time alert communication to the surrounding community.
- Integrated sensors (e.g., smoke, gas, flame), IoT devices, and communication networks using NodeMcu and Proteus for simulation and hardware testing.

#### Stock Price Prediction Using Machine Learning

- Developed a stock price prediction model using LSTM (Long Short-Term Memory) for accurate forecasting, utilizing historical data analysis and machine learning.

#### Safe Zone Detection Using YOLO V8

- Built a real-time safe zone detection system for an IBM Hackathon using YOLO V8, integrating components like object detection and image processing for automated safety alerts.

### CERTIFICATIONS

- IBM Certified in Python, Java, Big Data, and Business Intelligence (SkillsBuild).
- CSC Honours Diploma in Computer Application – Completed from 03 Aug 2018 to 03 Aug 2019.
- Microsoft Certified: Azure Fundamentals (2023).
- Participated in Google DevFest 2023 at IIT Madras Research Park.

- IBM Certified in Python, Java, Big Data, and Business Intelligence (SkillsBuild).
- CSC Honours Diploma in Computer Application – Completed from 03 Aug 2018 to 03 Aug 2019.
- Microsoft Certified: Azure Fundamentals (2023).
- Participated in Google DevFest 2023 at IIT Madras Research Park.
- IBM SkillsBuild Hack Challenge 2023 – Certificate of Participation.
- Hack4Health 2023 – HealthTech Innovators Challenge Participant.
- Eco-Activist – National Environment Climate Change Forum (2024).
- Attended technical conferences/seminars at Saveetha, MGR College, Puducherry IEI, ICON'23, and DIODEZ.
- Organized and led sustainability campaigns with MGR IGEN ENSAVCLUB (IGENCYCLE4GREEN, IGENSDBG4MGR, etc.).
- Initiated and organized SDG Ethios Symposium promoting UN SDGs.
- Completed "Youth and Peace Building for Community Leaders" training by URI South India (Kerala, 2024).
- Presented paper at NCICT'24 – Vishwa Pradyog; awarded participation certificate.
- Volunteered at ROBOTZINDIA.in V9.0 (Anna University, 2024).
- Certified Pandit in Hindi – Passed all 9 levels of Hindi proficiency exams.
- XAKAL Course Completed PRE-PLACEMENT TRAINING PROGRAMME.

## AWARDS

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- Best Organizer Medal – IGEN ENERGATHON 2023.
- IGEN Best Volunteer & Achievement Certificate – MGR IGEN ENSAVCLUB.
- Outstanding Leadership Award – IGEN Annual Day 2023.
- Patent Award – Granted for “AI Integrated Community Safety Gadgets” by Dr. MGR Educational and Research Institute.
- Green Volunteer Award 2024 – Presented by TN Environment Minister at IGEN event.
- G20 Youth Speaker Recognition – IGEN COP YOUTH 2030.
- NPC Student Appreciation Award – For academic excellence and innovation.
- Volunteer Certificate – Dr. APJ Abdul Kalam Satellite Launch Vehicle Mission (Feb 2023).
- Certified Green Leader – Completed 10 Billion Green Leader Academy Course.

## INTERSHIP

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- First Internship at College MGR Office Barriers (August 2022); Joint Secretary of MGR IGEN ENSAV CLUB
- Teachnook Internship Completion Certificate (AI Project Completed)
- G Cloud Networks, Intern

## PATENT

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- Patent Granted – “AI Integrated Community Safety Gadgets” (Application No: 202441007573); final product development completed.

## PUBLICATIONS

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- K. Thanush, R. Santhosh, et al. “AI-Integrated Community Safety Solutions for Smart Cities: A Study Towards SDG 11”, IEEE, presented and published at the 2024 1st International Conference on Sustainability and Technological Advancements in Engineering Domain (SUSTAINED2024). Paper ID: 435, eCF Paper ID: 838746.
- K. Thanush, R. Santhosh, A. Pious Niranjana, et al. “AI-Driven Smart Safety Framework for Community Protection”, IEEE, presented and awarded Best Paper at the 2025 International Conference on Data Science and Business Systems (ICDSBS), SRM Institute of Science and Technology, Kattankulathur. Paper ID: 2490.