THARUN KARTHICK N

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CAREER OBJECTIVE

AI/ML Engineer with a strong foundation in Electrical and Electronics Engineering and hands-on experience in AI, and embedded systems. Passionate about designing and implementing intelligent solutions to optimize performance and enhance automation. Proficient in Python, C, SQL, and front-end technologies, with a proven ability to lead projects and innovate in real-world applications. Seeking to contribute my expertise in AI , power electronics, and software development in a dynamic and challenging environment.

EDUCATION

BE   **Bannari Amman Institute of Technology**, Electrical and Electronics Engineering   2020 – 2024
- CGPA: 8.61/10

HSC   **Kongu Velallar Matric Higher Secondary School**, Computer Science, mathematics   2018 – 2020
- Percentage: 81.17

SSLC   **Kongu Velallar Matric Higher Secondary School**,   2017 – 2018
- Percentage: 87.40

EXPERIENCE

AVASOFT, AI/ML Engineer   Chennai, TN
Aug 2024 – Feb 2025
- Implemented RAG for improving response accuracy .
- Developed a Python-based web scraper to automate data collection.
- Integrated AI models into web applications using Flask and Pandas.

AVASOFT, AI/ML Trainee Engineer   Chennai, TN
Feb 2024 – Aug 2024
- Completed a 2-month training program, followed by a 4-month deployment into live projects, gaining hands-on experience in AI/ML applications.

NSIC, Intern   Chennai, TN
Dec 2021 (Short-Term Internship)
- Engineered a robust prototype for an industrial IoT solution that integrated seamlessly with existing hardware systems

PROJECTS

Info Hub   Team Leader
- Developing a Front-End for the Student Info Hub is intended to be a dynamic, web-based platform that effectively gathers and organizes student-related data. It aims to close the gap that exists between current, user-centric technologies and traditional administrative procedures.
- Tools used: Typescript, CSS

Automatic Energy Saver for Electric Cars   Team Leader
- Developed a prototype electric car utilizing a regenerative energy-saving technique to enhance efficiency and optimize power consumption.

PATENTS

An Device for Good Yield Irrigation and Method There For   First author (Inventor)
  - **Patent ID:** 202241012477
  - **Patent file:** 2022

Home Automation with Different Modes   First author (Inventor)
  - **Patent ID:** 202341015420
  - **Patent file:** 2023

TECHNICAL SKILLS

Programming Languages: C, C++, Python, SQL, React (ts)

Databases: PostgreSQL, MySQL

Tools: Flask, Pandas , TensorFlow,Numpy.

Deployment: Docker, Git .

CERTIFICATIONS AND ONLINE COURSES

  - Rashtrabhasha Praveen (8 exams) at Dakshina Bharat Hindi Prachar Sabha   Dec 2012 – Aug 2017

  - Communication Skills - TCS iON   April 2021 – May 2021

  - Canva Masterclass at Udemy   May 2021 – June 2021

  - Python at Skillup   Jan 2022 – March 2022

ADDITIONAL INFORMATION

  - Experienced in web scraping, RAG implementation, image analysis and back-end API development with AI

  - Skilled in Flask, Pandas, PostgreSQL, MySQL, and front-end technologies.

  - Strong problem-solving and critical thinking skills.

  - Effective team collaboration and leadership experience.

  - Fluent in Tamil and English; intermediate proficiency in Hindi.

  - Passionate about Power Electronics and AI-driven applications.

  - Enthusiastic about continuous learning and adapting to new technologies.