Karthik Rajan S

Chennai, Tamil Nadu | +9193613 76662 | @portfolio | @linkedin | @github | @leetcode | @medium |karthikrajan025@gmail.com

EDUCATION

Easwari Engineering College

Aug'21 - May'25, Chennai, India

Bachelor of Engineering - Computer Engineering; CGPA: 8.6

Alwin Memorial Public School

Jun'19 - May'21, Chennai, India

12th Grade (HSC); Percentage: 95% & 10th Grade (SSC); Percentage: 91%

SKILLS

Languages : Python, C++, JavaScript, Typescript, HTML, CSS, Java

Frameworks : ReactNative, ReactJs, Streamlit, TensorFlow, Pandas, Numpy, Sci-kit-learn, RestAPI, Langchain, CNN, GenAI, RAG,

Tools : Git, Firebase, MySQL, PowerBI, VectorDB, Docker, AWS, Azure

Soft Skills : Problem solving, Leadership, Time management, Decision Making, Communication, Adaptability

EXPERIENCE

Data Science Intern @Signa Tech Services Pvt Ltd

Chennai, Sep'24-Feb'25

 As a Data Scientist and Product Development Intern, contributing to working with the LLM applications and developing a standalone web application that leverages OpenAI models

Data Science Intern @National University of Singapore (NUS) And Amazon (AWS)

Singapore, Jul'23-Aug'23

• Successfully completed Global Academic Internship Programme (GAIP) by Corporate Gurukul in collaboration with National University of Singapore (NUS), earning "A" grade, with a project score of 43.75/50, based on strong theoretical knowledge & practical application. Completed Training and Certification from AWS.

Android Developer Intern @PK Innovatives

Chennai, Jan-Feb'23

• Designed and developed a feature rich Android application improving and App performance

CERTIFICATION

- Microsoft Certified Azure AI Engineer Associate (AI-102) Microsoft, 2025
- AWS Certified AI Practitioner (AIF-C01) AWS, 2024
- Microsoft Certified Azure AI Fundamentals (AI-900) Microsoft, 2025
- Data Analytics using Deep Learning National University of Singapore, 2023
- AWS Certified Data Analytics using BIG Data-AWS, 2023
- Web Development Training Mood Indigo, IIT Bombay + Acmegrade, Aug-Sep'23
- Privacy & Security in Online Social Media NPTEL Course, July-Oct'23
- Data Analytics with Python NPTEL Course, Jan-Apr'23
- Frontend for Java Full Stack Development Board Infinity, Coursera
- Career Essentials in Data Analysis Microsoft and LinkedIn

PROJECTS

- Crop Recommendation System with Plant Disease Detection | Python, Streamlit, AI/ML, Neural Networks (ResNet50)- This model predicts suitable crop & disease of the plant grown, that can be identified WRT given input features.
- FAQ-Assistant | Python, FastAPI, ReactJs, RAG, Chromadb, Langchain, OpenAI, SqlAlchemy The assistant utilizes natural language processing (NLP) techniques to provide users with accurate and relevant answers to their queries.
- Parkezy A generic streamlined Intellectual Parking System using ALPR / RFID | Android studio, ALPR-API, Fire base, Java, RFID, Google Maps API This tool is comprehensive intellectual parking management & control system offering a user-friendly experience to both parking carriage & consumer.
- Deanonymization of illegal crypto transaction | Bitcoin Core, Python, React, Wireshark Developed a tool employing machine learning algorithms to classify transactions and wallets and analysing publicly available transaction information to form a Transaction Network Graph and identifying their IP.
- AI Voice Assistant Chatbot | OpenAI, LLAMA, ChromaDB, LangChain, Streamlit, ChatTTS -Developed a real-time voice assistant using Whisper for speech-to-text and ChatTTS for text-to-speech, enabling seamless interaction and conversation summarization.
- Data Analysis Chatbot A Conversational AI | Langchain, OpenAI, Python, FastAPI, ReactJs This tool is designed to assist users in performing data analysis tasks and provides visualizations for the user queries.
- **KarryBot A Grammar Checker AI Assistant** | ReactJs, Python, Hugging Face Models, WebSockets, FastAPI This is a grammar and spell-checking tool that provides real time suggestions and corrections to enhance writing accuracy.

ACHIEVEMENT

- · Winner of Smart India Hackathon, 2023, Amity University, Noida during Dec'23 which was organised by Ministry of Education
- Presented a paper in 7th World Conference on "Smart Trends in System, Security & Sustainability", Aug'23 (accepted for springer LNNS series in scopus indexed journal)
- Published a patent titled 'ALZCARE: Personalized Voice Assistant for Alzheimer Patients' (Application No. 202441089436, Publication Date: 29/11/2024), leveraging deep learning and Azure IoT for advanced neurodegenerative care solutions.
- Published a patent titled 'EDGE-AI Powered Pothole Detection System & Method for Real-Time Road Safety Enhancement' (Co-Inventor, Application No.202541010838 A, dated: 14/02/2025), integrating deep learning models like YOLO with edge computing.

HOBBIES/OTHER INTERESTS

Practicing coding questions | Learning on Data Analytics | Playing Cricket | Travelling | Volunteering Work