



Karpaga Kamaleshwaran D

📞 8939079844 ✉ karpagakamaleshwaran.d@gmail.com  [Karpaga Kamaleshwaran](#)  [Karpaga Kamaleshwaran](#)

Education

CHENNAI INSTITUTE OF TECHNOLOGY

Bachelor of Technology in Artificial Intelligence and Data Science (CGPA: 8.0 / 10)

Expected May 2025

Chennai, Tamilnadu

PANIMALAR POLYTECHNIC COLLEGE

Diploma in Mechanical Engineering (Average: 82 %)

June 2017 - May 2019

Chennai, Tamilnadu

Internship Experience

CODSOFT

Data Science Internship

Jan 2024 – Feb 2024

Chennai, Tamilnadu

- During my data science internship, I was complete a project which I successfully completed using Python.
- I managed and maintained a separate repository named "CODSOFT" on GitHub to organize and store the code for the tasks. After finishing and submitting the tasks, the internship came to an end.

TRACTORS AND FARM EQUIPMENT

Diploma Engineer Trainee

Sep 2021 – Sep 2022

Chennai, Tamilnadu

- I worked in the Research and Development (R & D) Proto shop. Specifically, I worked on proto work for the TAFE 6022, 6026, and 6028 compact models.
- I have worked on five projects, which include HST, ISEKI 357, MF 7025, EICHER 280, and 288.

HYUNDAI MOTORS INDIA

Diploma Apprentice

Aug 2020 – Aug 2021

Chennai, Tamilnadu

- I worked under the NATS scheme as a CNC operator in the engine head MIP production line in the Engine shop.
- My responsibilities included tool changing in the GROB Machine, rework, operating the robotic arm, implementing 5S practices, inspecting parameters every two hours using digital gauges.

Projects

QUANTIZED FALCON-7B | Langchain, Hugging Face and Xformers

Feb 2024

- This project focuses on fine-tuning and utilizing a quantized Falcon-7B language model for custom question-and-answer tasks using the Hugging Face Transformers library. By integrating BitsAndBytes for efficient 4-bit quantization and LangChain for interactive Q & A, the project demonstrates a scalable approach to deploying large language models on limited hardware resources.
- The workflow includes model loading, quantization, text generation, and LangChain-based Q&A interactions, optimized for performance and memory efficiency.

QUESTION AND ANSWER | Langchain, FAISS

Dec 2023

- This is an end-to-end LLM project based on Google PaLM and LangChain. We are building a Q&A system for a company that offers courses or products.
- Thousands of users use a communication platform or email to ask questions. This system will provide a where users can ask questions and get answers.

Certifications

CCNA- 2 Routing and Switching

CCNA-1 Introduction to Networks

CISCO Python Essentials Cybersecurity Essentials CISCO

Internet Of Things Certificate, NPTEL

Skills and Interest

Programming and scripting: Java, Python, HTML, SQL

Technical Tool : Git hub ,MS Office

OS : windows,

Skills and technologies: Artificial intelligence and data science,LLM, Data Structures, Machine Learning, Deep learning,