Karthik Sathish

UG(IV Year II Semester)
B.Tech. (Production and Industrial Engineering)
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Registration No: 22119029/2026

Indian Institute of
Technology
Roorkee

VERIFIED

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2024	B.Tech. 4th Year	Indian Institute of Technology, Roorkee	8.106
2022	Intermediate (Class XII)	Rashtrotthana Vidya Kendra, Bengaluru (CBSE)	93.20 %
2020	Matriculate (Class X)	Jawahar Navodaya Vidyalaya, Udupi (CBSE)	90.60 %

Internships

Google Summer of Code2025 | Alaska   June 2025 - August 2025
- Developed a decentralized healthcare marketplace using Ethereum for secure and verifiable storage.
- Created REST APIs to generate vector embeddings from sentence transformers and store it in ChromaDB.
- Designed and implemented streaming encryption, PHI anonymization, and blockchain based verification for data privacy.
- Built FastAPI + Express.js backends and Solidity smart contracts with search, filtering, and marketplace features.

AI Intern | School Hack FZ-LLC   August 2025 - September 2025
- Developed the planner and plugin response modules for the Reasoning Mode of the Qwen 3 480B model at OnDemand.
- Deployed DeepSeek-R1-Distill-Llama-70B on Gaudi 3 via vLLM, achieving ~480 tokens/sec aggregate throughput.
- Analyzed inference performance across Intel AP, SP, and Gaudi servers, and resolved bugs in the OnDemand application.

AI RAG Developer | Apartmint Solutions Pvt. Ltd   November 2024 - January 2025
- Developed a customer-assistance chatbot to enhance digital interaction and service efficiency.
- The system was built using LangChain and Streamlit UI, with Pinecone as the vector database for scalable data retrieval.
- It utilized LLAMA-3-8B (Instruct) on Groq AI for intelligent, context-aware responses to customer queries.

Projects

Labeling Platform | Nebula by MDG   June 2024
- Built a collaborative platform that helps creators and ML developers efficiently label datasets for model training.
- Designed an interactive interface using Next.js to provide good user experience and simplify data annotation workflows.
- Integrated AWS S3 storage for secure file handling, enabling efficient upload, access, and retrieval of labeled datasets.
- Built an escrow based Solana payment system enabling fast, low-cost transactions for labeling services.

Digital Art Ownership Verification and Management System | Season of Code by MDG   December 2023 - January 2024
- Built a decentralized marketplace enabling artists to mint, register, and trade NFTs on the Ethereum blockchain network.
- Developed Solidity contracts managing NFT creation, ownership verification, and transfer logic.
- Integrated Pinata with IPFS to store the metadata securely, ensuring decentralized and persistent data availability.
- Used the ERC-721 standard in the NFT contract to define token structure and handle ownership transfers.

Awards / Scholarships / Academic Achievements

- Achieved 460 rank in CET (General) in the state Karnataka amongst 2 lakh competitors
- Achieved 99.27 percentile in JEE MAINS (General) in amongst 10 lakh competitors
- Received FFE scholarship for my excellence in the Nation-wide JEE Examination, securing 160 K for my entire degree program

Skills

Computer languages	C++, Python
Software Packages	MySQL
Additional Courses	Introduction to Machine Learning
Languages Known	English, Kannada, Hindi

Positions of Responsibility & Extra Curriculars

Cadet | NCC   December 2022 - March 2025
- Exhibited leadership, discipline, and teamwork through training and community service. Successfully earned the NCC 'C' Certificate, the highest cadet achievement, reflecting dedication and excellence.

Member of Sports Council | Govind Bhawan, IIT Roorkee   September 2024 - September 2025
- Continuously contributing to the organization and promotion of sports activities within the hostel.

References

Varun Rawal
Senior Software Development Engineer
Amazon
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Rahul S. Mulik
Associate Professor
IIT Roorkee
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