

Harsh Kumar

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EDUCATION

Indian Institute of Information Technology, Sri City <i>Bachelor of Technology - Electronics & Communication Engineering; CGPA: 7.5</i>	Chittoor, India <i>Nov 2022 - June 2026</i>
D.A.V public School <i>CBSE(X); Percentage: 91.4%</i>	India <i>April 2009 - April 2019</i>

EXPERIENCE

Research Assistant — IIIT Sri City <i>Python and AI Backend Development</i> <ul style="list-style-type: none">Designed and built production-grade Python services and RESTful APIs using FastAPI and Flask to deploy AI-based IoT anomaly detection systems.Implemented scalable data preprocessing and feature engineering pipelines using NumPy and Pandas for high-volume sensor and network data.Integrated CNN, attention-based deep learning models, and XGBoost into backend inference workflows for real-time prediction and monitoring.Developed MLflow-driven experiment tracking, model versioning, and validation pipelines to ensure reproducible and reliable model deployments.	June 2025 – August 2025
CodeClause <i>Data Science Intern</i> <ul style="list-style-type: none">Built Python-based data pipelines for cleaning, transforming, and preparing real-world datasets for machine learning workflows.Performed exploratory data analysis (EDA) and feature engineering to identify patterns, reduce noise, and improve model readiness.Trained and evaluated supervised learning models, producing reproducible notebooks and technical reports for business-driven analytics.	Dec 2025 – Jan 2026

PROJECTS

Quickart  <i>Full-Stack E-commerce Platform</i> <ul style="list-style-type: none">* Built a production-grade e-commerce platform using Next.js 14 with SSR and ISR to deliver fast, SEO-optimized, and scalable product pages.* Developed serverless backend APIs for product, cart, and order management using MongoDB with validation, transactions, and optimized indexing.* Implemented real-time cart synchronization using Convex with optimistic UI updates, ensuring cross-device consistency and high performance.* Technologies: Next.js 14, TypeScript, React, MongoDB, Convex, Clerk Auth, Serverless APIs	(GitHub )
ResoTrack  <i>Full-Stack AI-Powered Resume Intelligence & Matching Platform</i> <ul style="list-style-type: none">* Built a serverless AI resume analyzer using React.js and TypeScript, integrating cloud-based storage, AI processing pipelines, and authentication on the Puter platform.* Implemented AI-powered resume analysis with PDF processing and Gemini API integration to deliver ATS-compatible scoring and improvement insights.* Designed application workflows with real-time feedback and dynamic routing, ensuring reliable user interaction and performance.* Technologies: React.js, TypeScript, Puter Cloud APIs, Gemini API, Tailwind CSS, React Router	(GitHub )
AI-Powered Medical Chatbot  <i>LLM-Driven Healthcare Assistant with RAG and API Deployment</i> <ul style="list-style-type: none">* Built an LLM-powered medical assistant using GPT-4 and Gemini with prompt engineering and retrieval-augmented generation over Pinecone vector search.* Designed LangChain pipelines for document ingestion and semantic retrieval, enabling context-aware medical responses.* Implemented Flask-based inference APIs with caching, logging, and error handling for scalable deployment.* Technologies: Gemini, GPT-4, LangChain, Pinecone, Hugging Face, Flask, AWS, GitHub Actions	(GitHub )

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C/C++ Backend: FastAPI, Node.js, Express.js, REST APIs, Auth, API Design, AWS Lambda Frontend: React, Next.js, TypeScript, HTML, Tailwind CSS, Real-time Dashboards, Data Visualization Databases: PostgreSQL, MongoDB, MySQL, Redis Cloud & Infra: AWS Lambda, Amazon S3, Amazon SQS, CloudFront, Serverless DevOps & Tools: Docker, CI/CD, GitHub Actions, Git, Linux AI / LLM (Bonus): LLM APIs, LangChain, Vector DBs , Open Source Models ,RAG , GENAI Core CS: DSA, OOPS, OS, System Design (Basic)	
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ACHIEVEMENTS & CERTIFICATIONS

• Oracle Cloud Infrastructure 2025 Certified Generative AI Professional	Link
• Complete Data Science, Machine Learning, Deep Learning, NLP Bootcamp — Krish Naik	Link
• Solved 250+ problems on LeetCode/GfG with focus on algorithms, data structures, and problem-solving.	

LEADERSHIP & RESPONSIBILITIES

IIIT SriCity Cricket Team Captain <i>IIIT Sri City Intercollegiate Team</i> <ul style="list-style-type: none">Captained the IIIT Sri City cricket team in intercollegiate tournaments, leading match strategy and on-field performance.	September 2024 - nov 2025
Events Coordinator at Abhisarga <i>Annual College Technical Festival</i> <ul style="list-style-type: none">Managed technical event logistics for 1,500+ participants across 15+ competitions, ensuring 100% on-time execution.	March 2024 - December 2024