

# HARSH KUMAR

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## EDUCATION

<b>Vellore Institute of Technology</b> B.Tech in Computer Science, <b>CGPA: 9.14</b>	<b>Sep 2022 – Present</b> Vellore, India
<b>DAV Hehal Ranchi</b> Class 12th <b>Percentage: 89.2%</b>	<b>Apr 2021 – Apr 2022</b> Ranchi, Jharkhand
<b>DAV Hehal Ranchi</b> Class 10th <b>Percentage: 96.4%</b>	<b>Apr 2019 – Apr 2020</b> Ranchi, Jharkhand

## RELEVANT COURSEWORK

- Data Structures: 4/5
- Deep Learning: 4/5
- Generative AI
- Agentic AI: 4/5
- OOP
- NLP
- Data Science: 4/5

## TECHNICAL SKILLS

**Languages:** C++, Python, SQL, LangChain, LangGraph

**Tools:** VS Code, GitHub, Google Colab, Kaggle

**AI/ML:** TensorFlow, Hugging Face, OpenCV, FAISS

## PROJECTS

<b>Agentic Web-Enabled Conversational AI</b>   GPT-4, AutoGen, LangChain, SerpAPI, ChromaDB	<b>June 2025</b>
- Engineered an autonomous conversational system that uses LLMs to dynamically retrieve and synthesize real-time web data.	
- Orchestrated Planner, Search, and Synthesizer agents using MCP protocol; enabled contextual continuity with ChromaDB and SerpAPI.	
<b>Chatbot with Retrieval-Augmented Generation (RAG)</b>   LangChain, FAISS, Python	<b>Jan 2025</b>
- Built a RAG-powered chatbot with LangChain and Hugging Face that generates contextually accurate multi-turn responses.	
- Utilized FAISS for vector search across 100K+ embedded documents, reducing hallucinations and improving factual grounding by 40%.	
<b>Real-time Parking Detection</b>   OpenCV, Python, pickle	<b>Dec 2024</b>
- Developed a real-time detection system for identifying vacant parking spots from video feeds with 35% accuracy improvement.	
- Used background subtraction, contour detection, and trained on custom data to handle varying lighting and camera perspectives.	

## EXPERIENCE

<b>Wipro Ltd.   Bangalore, India</b>	<b>May – Jul 2025</b>
<i>Software Development Intern</i>	
- Earned certification in <b>Doxis CSB</b> , gaining hands-on exposure to enterprise content management (ECM) systems and intelligent document processing.	
- Collaborated with engineering teams on designing <b>Agentic AI workflows</b> , and completed 4 global certifications related to DOXIS CSB ECM architecture and integration.	
<b>Future Intern</b>	<b>Mar – Apr 2025</b>
<i>Data Science Intern</i>	
- Developed an NLP-based ticket classification system that reduced support team response time by <b>30%</b> using LSTM models and GloVe embeddings.	
- Conducted geospatial analysis of traffic and accident data to identify high-risk zones, enabling better resource allocation and public safety measures.	

## ACHIEVEMENTS & LEADERSHIP

<b>LeetCode</b>	<a href="https://leetcode.com/u/harshnpng">leetcode.com/u/harshnpng</a>
<i>DSA Practice</i>	
- Solved <b>300+ problems</b> covering arrays, trees, graphs, and dynamic programming on LeetCode.	
<b>DataWars</b>	<a href="https://profiles.datawars.io/harshnpng">profiles.datawars.io/harshnpng</a>
<i>Data Preprocessing Projects</i>	
- Completed <b>50+ projects</b> involving data cleaning, transformation, and feature engineering.	
<b>Production Head – Stage Plays</b>	<b>Oct 2024 – Jan 2025</b>
<i>IIT Madras &amp; NIT Trichy</i>	
- Led stage and logistics for award-winning theatre productions at <b>Saarang (2nd)</b> and <b>Festember (1st)</b> .	
- Received special recognition for production management and coordination.	