

Harsh Kumar

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Professional Summary

Computer Science graduate passionate about AI-powered Full Stack Development, Backend Engineering, and Generative AI. Experienced in scalable web applications, REST APIs, AI-integrated platforms, and real-time aggregation systems using Python, FastAPI, React, Node.js, Firebase, and LLM technologies.

Technical Skills

Languages: Python, JavaScript, TypeScript, Java, SQL, C++
Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, FastAPI, Tailwind CSS, HTML5, CSS3
Databases: MongoDB, SQLite, Firebase, SQL
AI: AI Agents, LangChain, LangGraph, RAG, MCP, Prompt Engineering, LLM API Integration
Tools: Git, GitHub, VS Code, Postman, Playwright, Vercel

Experience

Edunet Foundation (Microsoft & SAP CSR) **Dec 2024–Feb 2025**
AI/ML Intern *Remote*

- Analyzed **49,000+ retail transactions across 17 attributes**, identifying product demand, pricing, discount, and customer purchasing patterns.
- Cleaned and preprocessed **49K+ transaction records** using Python and Pandas, handling missing values, inconsistent data, and categorical features for downstream ML workflows.

Emulus Consulting **Sep 2022–Dec 2022**
Data Engineering Intern *Chandigarh*

- Cleaned and validated **15,000+ records across 5 datasets**, improving data consistency by approximately **20%** for downstream reporting.
- Documented data pipelines and processing workflows, reducing data lookup and onboarding time by approximately **25%** for the team.

Projects

CartRadar – Real-Time Quick-Commerce Inventory Aggregator *2026 – Personal Project*

- A platform that aggregates live product prices and stock availability across Blinkit, Zepto, Instamart and BigBasket in one place.
- Reverse-engineered platform APIs with Playwright and JSON-LD extraction, an asynchronous FastAPI backend streaming live updates over SSE, and a React + TypeScript + Tailwind frontend.
- Lets users compare live prices and stock across four quick-commerce apps from a single dashboard instead of checking each app manually.

Mutual Capital Platform (AI Stock Analysis) *2025–Present – Personal Project*

- An AI-powered stock analysis platform that connects brokerage accounts and generates investment insights.
- Next.js frontend, Firebase backend with authentication and REST APIs, Gemini API for LLM-driven analysis, and CSV/PDF import-export.
- Gives users automated, LLM-backed portfolio insights from real brokerage data instead of manual statement analysis.

Adaptive 3D Gameplay *2025 – IEEE Publication*

- A research project on adaptive gameplay systems that adjust 3D game difficulty and behavior in real time based on player performance.
- Designed the backend workflow for real-time gameplay state management and player-performance tracking.
- Published as peer-reviewed IEEE research, contributing a reusable adaptive-difficulty framework for real-time games.

Education

Chandigarh University **Graduated Jun 2026**
B.E. Computer Science Engineering *CGPA: 7.04*

D.N. College, Taregna **2020–2022**
Senior Secondary (PCM) *65%*

Certifications

- Foundation of Cloud IoT Edge ML – NPTEL Elite
- Blockchain Technology using Ethereum & Polygon – Chandigarh University × Metacrafters
- Databases and SQL for Data Science – IBM