

HIMANSHU GUPTA

+91 9415135313 | Delhi, India | ghimax23@gmail.com | github.com/himax12 | linkedin.com/in/himanshu-gupta23 | portfolio

EDUCATION

Maharaja Agrasen Institute of Technology
B.Tech Artificial Intelligence & Data Science

Delhi, India
Nov 2022 – Present

EXPERIENCE

Sparkonomy
Full Stack AI Engineer

May 2026 – Present

- Led technical SEO improvements across 40+ production pages with dynamic metadata, schema markup, author attribution, and sitemap infrastructure.
- Built a unified knowledge-ingestion platform integrating Wikipedia, IMDb, News, and Google Knowledge Graph through a registry-driven FastAPI architecture.
- Designed 6+ scraper endpoints and consolidated duplicated caching, retry, HTTP, and exception-handling layers into reusable platform components.
- Developed Redis-backed pipelines and author-hub features for 7+ authors using Python, FastAPI, Redis, TypeScript, Next.js, and JSON-LD.

EspoMedia
Python Developer Intern

Jan 2026 – Apr 2026
Tech Department

- Built OCR pipelines using EasyOCR, Tesseract, and OpenCV preprocessing to extract structured data from scanned documents and automate ingestion workflows.
- Assisted training and fine-tuning detection models with PyTorch/TensorFlow and YOLO (Roboflow), performing dataset preparation, evaluation, and error analysis to improve model reliability.
- Developed Python automation scripts and media-processing tools using FFmpeg and MongoDB-backed storage, collaborating via Git workflows to maintain clean, testable code.

PROJECTS

ClipSync

Jan 2026

- Built automated video-editing pipeline aligning A-Roll speech with context-matched B-Roll using transcription and vision-language models.
- Designed semantic placement algorithm using speech-to-text features and Gemini VLM similarity scoring.
- Implemented end-to-end rendering pipeline with FFmpeg exposed via REST API.

MathPilot

Dec 2025 – Jan 2026

- Built AI tutoring system using structured reasoning inspired by AI-SCSE multi-agent architecture.
- Implemented planner → solver → verifier → repair workflow to reduce hallucinations in symbolic math.
- Integrated SymPy verification for correctness checking of generated solutions and built a real-time tutoring interface.

AI Medical Scheduling Agent

Sep 2025 – Oct 2025

- Built conversational scheduling agent with identity verification, insurance checks, and doctor booking.
- Designed LangGraph state machine to maintain context and task flow.
- Integrated Llama-3-70B API and Calendly API for automated appointment booking.

ACHIEVEMENTS AND CODING PROFILES

National Finalist – Adobe GenSolve Hackathon 2024

Top 6 Nationwide

Finalist – Tesco Retail Media Hackathon 2025

Top 4 Nationwide (100,000+ Participants)

Solved **600+ DSA Problems** across LeetCode, Codeforces, and GeeksForGeeks.

SKILLS

Languages: C, C++, Python, SQL, JavaScript

Backend & Data: FastAPI, Node.js, Express, MongoDB, Pandas, NumPy

AI/ML: LangGraph, PyTorch, TensorFlow, YOLO, SymPy, OCR Pipelines

Tools: Git, FFmpeg, Linux, Redis, REST APIs

Core CS: Data Structures, Algorithms, OS, DBMS, Networks

Focus: Agentic AI Systems, LLM Applications, Backend Engineering, Full Stack AI Engineer