

KRISH SHARMA

New Delhi, India | +91 9310967404 | krishsharma1062@gmail.com | [krish-sharma-portfolio.vercel.app](#) | [linkedin.com/in/krish-sharma-212325282](#) | [github.com/Krishsharmacse](#)

OBJECTIVE

Software Engineer with hands-on experience across AI/ML, backend engineering, and digital forensics, skilled in building scalable APIs, agentic and RAG-based LLM systems, and real-time production applications. Proficient in Python, C++, and Node.js, with practical exposure to machine learning, generative AI, and cyber-forensic investigation techniques.

EDUCATION

GGSIPU (USICT) — B.Tech, Computer Science & Engineering (CGPA: 8.5)	2024 – 2027
G.B. Pant Institute of Technology — Diploma, Electrical Engineering (CGPA: 9.01)	2021 – 2024
CBSE — Matriculation	2021

EXPERIENCE

Cyber Forensics Intern — Intelligence Fusion and Strategic Operations (IFSO) (Onsite) **Jun 2026 – Aug 2026**

- Developed and deployed production AI systems, including an agent-driven PC Recommendation System delivering real-time, price-aware hardware suggestions.
- Built conversational AI chatbots and agentic workflows to automate real-time pricing lookups and decision pipelines.
- Designed and integrated Node.js backend services to serve ML models and chatbot pipelines as scalable production APIs.

Built CyberX SOC, a unified cyber-forensics platform, as the assigned cyber problem-statement project for the internship (see Projects).

AI Intern — Prodigal AI (Remote) **Jan 2026 – Apr 2026**

- Built conversational AI chatbots and agentic workflows to automate real-time pricing lookups and decision pipelines.
- Designed and integrated Node.js backend services to serve ML models and chatbot pipelines as scalable production APIs.

AI Research Intern — Cod4Bots Technologies Pvt Ltd (Coding Junior / Planto AI) (Remote) **Jun 2025 – Sep 2025**

- Led applied AI research as intern team lead, directing a small team on Transformer architectures, Generative AI, and large language models.
- Designed and implemented Retrieval-Augmented Generation (RAG) pipelines and fine-tuned LLMs (LoRA/PEFT, instruction tuning) for domain-specific conversational chatbots.
- Built an AI-powered HR assistant chatbot for internal company use, automating employee query resolution and reducing manual HR workload.

Summer Trainee — Mercedes-Benz (Onsite) **Feb 2023 – Apr 2023**

- Studied working principles of four-stroke engines, DC motors, synchronous generators, and hybrid-vehicle powertrain systems, including hands-on experience with V-shaped engines.
- Explored integration of electrical and mechanical sub-systems within hybrid vehicle architecture.

Electrical Intern — Delhi Transco Limited (Onsite) **Jun 2023 – Jul 2023**

- Worked on substation operations and transformer maintenance, including silica-gel breather checks and testing of CTs, PTs, CVTs, lightning arresters, and 3-phase power transformers.

SKILLS

Languages & Backend: C, C++, Python, SQL, Node.js, Express.js, Flask, FastAPI, REST APIs, Microservices

ML & Deep Learning: Regression, Decision Trees, Random Forest, SVM, K-Means, PCA, CNNs, RNNs, LSTMs, GRU, Transformers, Encoder-Decoder — Scikit-learn, TensorFlow, Keras, PyTorch

Generative AI & NLP: Transformer architecture, attention mechanisms, prompt engineering, RAG, LoRA/PEFT fine-tuning, instruction tuning, Hugging Face Transformers, LangChain, Llama.cpp, OpenAI API, GPT, Gemini, Ollama

Embeddings & Vector Search: TF-IDF, Word2Vec, GloVe, sentence embeddings, FAISS, ChromaDB, Pinecone, cosine similarity, relevance ranking

Data & Infra: Pandas, NumPy, Matplotlib, Seaborn, MongoDB, PostgreSQL, Docker, CI/CD, Linux, Git

Security: JWT Authentication, OAuth 2.0, RBAC, digital forensics tooling (Autopsy, Volatility3, Ghidra, MobSF)

PROJECTS

AutoPrint Automation System (PrintX) — [printx.qskip.in](#)

- Built and deployed a full-stack, campus-wide remote printing platform (Node.js/Express, MongoDB, Redis, BullMQ) letting students upload, pay for, and print documents remotely; live and in active use on campus.
- Developed a Python microservice (pywin32) for direct Windows printer integration — job submission, queue management, and printer status monitoring.
- Implemented secure JWT authentication via HTTP-only cookies, OTP email verification, and role-based access control for user/admin flows.
- Integrated the Cashfree payment gateway with checksum validation and Cloudinary for cloud PDF storage; added IP/user-based rate limiting for DDoS protection.

Vishb Raksha Sutra — Multimodal Deepfake Detection System — [github.com/Krishsharmacse/VERIFICATION-SYNDICATE](#)

- Built a real-time video and audio deepfake detection system combining computer vision, speech modeling, and temporal sequence learning across four specialized pipelines.
- Video: MTCNN + EfficientNet-B0 + BiLSTM for frame-level artifacts; YOLOv8 face tracking + EfficientNet-B0 + BiLSTM for motion and lip-sync mismatch detection.
- Audio: WavLM for static voice-artifact detection; MobileNet + LSTM for dynamic voice-modulation and temporal speech analysis.
- Built a FastAPI backend with agentic monitoring for automated analysis and structured (CSV/JSON) reporting; validated on CelebDF and FF++-style datasets, with ONNX-based edge deployment support.

CyberX SOC — Unified Cyber-Police Forensics Platform — [github.com/Krishsharmacse/IFSO-CYBER-FORENSICS-PROJECT](#)

- Built as the cyber problem-statement project for the IFSO internship — a browser-based forensics suite unifying 15 industry-standard tools in one dashboard, including ExifTool, YARA, Sleuth Kit/Autopsy, Ghidra, Androguard, MobSF, and Volatility3.
- Integrated a multi-source threat-intelligence engine (VirusTotal, AbuseIPDB, Shodan, AlienVault OTX, Safe Browsing, URLScan, Pulsedive), a custom ML phishing classifier, TShark network forensics, email/EVTX log analysis, steganography detection, John the Ripper hash cracking, multi-protocol brute-force recovery, and Windows SAM/SYSTEM NTLM extraction.
- Built with FastAPI + SQLAlchemy (SQLite investigation database) on the backend and React + Vite on the frontend; trained a Random Forest model for offline URL-phishing detection using 29 engineered URL features.

AI-COACH — AI Resume Analyzer & Interview Coach — [github.com/Krishsharmacse/AI-COACH](#)

- Built an AI-driven interviewing and candidate-evaluation platform combining cosine-similarity vector search, structured resume analysis, and real-time mock HR interviews to help recruiters and candidates find the best matches and practice with data-driven feedback.
- Built a Resume Analyzer that parses PDF/DOCX resumes into structured fields, computes skill-match scores, and generates recruiter-ready summaries and recommendations.
- Implemented real-time mock HR interviews over WebSockets for bi-directional AI-interviewer/candidate interaction, with live follow-up questions and instant, actionable feedback.
- Built candidate scoring and ranking by blending cosine-similarity search with rule-based heuristics, plus explainable rationale (matched skills, similar resume snippets, and gap highlights) to reduce reviewer bias.

Verification Syndicate

- Multi-agent LangGraph pipeline using NLP and ensemble classifiers to verify news claims across text, audio, and video modalities with real-time analysis, using the Bhasini API for language translation.

Brain Tumor Detection (NeuroscanAI) — [github.com/Krishsharmacse/Brain-Tumour-Detector](#)

- CNN-based MRI scan classifier achieving 92% accuracy in tumor detection, with a nearby-hospital location finder supporting medical diagnostics.

Healthcare Chatbot — [healthcare-chatbot-7-yh6w.onrender.com](#)

- Medical assistant using RAG architecture with Pinecone vector DB and Google Gemini for accurate, context-aware healthcare insights.

JalShakti — Rainwater Harvesting AI — [rtwh-mu.vercel.app](#)

- AI-powered water conservation platform (Next.js) that transforms rooftops into rainwater harvesting systems, providing intelligent potential estimates and AI-powered recommendations.

CERTIFICATIONS & ACTIVITIES

Certifications: IBM AI Engineering Certification · Microsoft Fundamentals of AI & ML · Certified Generative AI Professional (Oracle) · Cisco Data Science Essentials with Python

Activities: Top 10, E-Raksha National Level Hackathon (IIT Delhi) · Finalist, Innervive Hackathon (IGDTUW) · Participant, Smart India Hackathon (SIH) 2025