

KANHAIYA LAL SHARMA

Howrah, West Bengal, India | +91 9123678922 | kanhaiyals2002@gmail.com | [Portfolio](#) | [GitHub](#) | [LinkedIn](#)

PROFILE SUMMARY

2026 B.Tech Computer Science and Engineering graduate (KIIT, Bhubaneswar) with strong foundations in data structures, algorithms, and object-oriented design, and hands-on experience shipping software across AI/ML, full-stack development, and distributed systems. Independently designed and deployed HireSense AI, a live recruiter copilot with a hybrid retrieval architecture, alongside several full-stack platforms and multimodal machine learning systems with measurable results. Proficient in Python, Java, JavaScript, and C++, with practical experience across REST APIs, cloud deployment, LLM integration, and scalable system design.

TECHNICAL SKILLS

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

CS Fundamentals: Data Structures and Algorithms, Object-Oriented Programming, System Design, Operating Systems, Networking basics

AI/ML: TensorFlow, Keras, scikit-learn, LSTM, CNN, ViT, EfficientNet, NumPy, Pandas, Matplotlib, LLM APIs, RAG pipelines, vector embeddings

Full-Stack: React.js, Next.js, Node.js, Express.js, FastAPI, REST APIs, JWT, TailwindCSS

Databases: PostgreSQL, pgvector, Supabase, MySQL, SQL

Cloud and DevOps: Git, GitHub, Docker (basic), Vercel, Railway, Hugging Face Spaces, CI/CD basics, Agile/SDLC

PROJECTS

HireSense AI: AI Recruiter Copilot [\[Live Demo\]](#)

Jun 2026 to Present

- Independently designed and shipped a live, production-grade AI recruiter copilot: a Next.js 15 and React 19 frontend deployed on Vercel, connected to a stateless FastAPI backend deployed on Hugging Face Spaces.
- Engineered a hybrid retrieval pipeline combining FAISS-based semantic vector search with lexical retrieval, fused using Reciprocal Rank Fusion, to deliver grounded recommendations from an indexed catalog of 377 records.
- Wrote clean, well-tested code throughout (Pytest, MyPy, ESLint, TypeScript), following professional software engineering practices from architecture through deployment.
- Delivered a fully live, publicly accessible product end to end, independently, from an open-ended problem to a working product used in real conversations.

Legal Document Automation and Analysis Platform [\[Live Demo\]](#)

Apr 2026 to Jun 2026

- Built a production-grade RAG platform using Next.js, Supabase (pgvector), and Auth0 to semantically search and analyze 1,000 plus legal documents.
- Integrated LLM APIs for automated clause extraction and compliance verification, achieving sub-1-second query response times and approximately 50ms upload and retrieval latency.
- Implemented signed URLs, edge APIs, and an SWR-driven frontend to support secure, real-time document analysis and retrieval.

Neural Digital Twin: Cognitive Disorder Detection [\[GitHub\]](#)

Aug 2025 to Dec 2025

- Developed a multimodal AI system integrating EEG (TUH dataset) and MRI (ADNI dataset) for early cognitive decline detection and brain tumor classification.
- Designed a CMF-ViT EEG model achieving 88 to 92 percent accuracy with 70 to 90 percent class sensitivity across 22 patient records.
- Implemented an EfficientNet-B4 MRI classifier reaching 97 to 98 percent validation accuracy and 97.6 percent test accuracy on 111 records.

LSTM Stock Market Forecasting Model [\[GitHub\]](#)

Jul 2024 to Nov 2024

- Architected a 3-layer LSTM time-series forecasting model on 5,000 plus data points, achieving R squared of 0.96, RMSE of 66.5, and MAE of 31.06.

- Reduced validation loss by 70 percent and improved forecast stability by 10 percent through systematic optimization, EarlyStopping, and learning rate scheduling.

EDUCATION

B.Tech in Computer Science and Engineering, KIIT, Bhubaneswar

2022 to 2026

CERTIFICATIONS

Artificial Intelligence Masterclass, Pantech AI: Supervised and Unsupervised Learning, Neural Networks, Python (NumPy, Pandas, scikit-learn, TensorFlow, Keras), data preprocessing and model optimization.

EXTRACURRICULAR ACTIVITIES

R&D Lead, Khwaab-KIIT | Dec 2022 to Present

- Led 3 R&D projects on waste management and water conservation, coordinating cross-functional teams and delivering results impacting 150 plus community members.