

SHAINA GERA

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Profile

Computer Engineering undergraduate focused on building intelligent software systems at the intersection of Artificial Intelligence, Machine Learning, and Full-Stack Engineering. Experienced in developing AI-powered applications, predictive analytics solutions, and scalable web platforms, with a strong foundation in software engineering, system design, and data-driven problem solving.

Education

Thapar Institute of Engineering and Technology	2024–2028
B.Tech in Computer Engineering	CGPA: 9.86 / 10
Class XII – CBSE 2024	94%
Class X – ICSE 2022	98%

Technical Skills

Programming Languages: Java, Python, C, C++, JavaScript
Frontend Development: HTML, CSS, JavaScript, React.js, Next.js, Three.js, Tailwind CSS
Backend Development: Node.js, Express.js, REST APIs, JWT Authentication
Databases & Storage: MongoDB, Firebase, MySQL
Machine Learning & AI: TensorFlow, Scikit-learn
Data Science Tools: NumPy, Pandas, Jupyter Notebook, Google Colab
Generative AI: Retrieval-Augmented Generation (RAG), Vector Embeddings, LangChain
Cloud & Deployment: Streamlit, Vercel, Netlify
UI & Styling: Tailwind CSS, Bootstrap, Figma

Experience

- Kraftland Intelligence Pvt. Ltd. – AI/ML Engineering Intern** 2026
- Building an AI-powered Market Intelligence Platform integrating data from 10+ external sources to analyze competitor activity, market trends, and industry intelligence.
 - Engineering a Retrieval-Augmented Generation (RAG) system leveraging vector embeddings, semantic search, LLM-powered reasoning, and predictive analytics for strategic decision support.
- GirlScript Summer of Code (GSSoC'25) – Open Source Contributor** 2025
- Contributed to MERN-stack open-source projects, delivering feature enhancements and successfully merging pull requests through collaborative GitHub workflows.
- Indian Society for Technical Education (ISTE) – Technical Head** 2024
- Led the development of 3 full-stack web applications supporting technical event operations.
 - Built platforms serving 200+ users and 150+ participants, while coordinating an organizing team.

Projects

Human Activity Recognition using CNN-LSTM

Python, TensorFlow, Keras, Streamlit, SHAP

- Developed and deployed a CNN-LSTM deep learning model on the UCI-HAR dataset, achieving **93.1% accuracy** with Streamlit-based real-time inference and SHAP-powered model explainability.
- Integrated real-time accelerometer and gyroscope sensor streams via Phyphox for activity prediction.

FoodWise – Hostel Food Wastage Analytics and Demand Forecasting System

Node.js, Express.js, MySQL, JavaScript

- Built a full-stack hostel food analytics platform with a normalized MySQL database comprising **6 interconnected tables**, implementing triggers, stored procedures, and SQL-driven forecasting models for automated wastage analysis and attendance-based demand prediction.

Loan Approval Prediction System – Credit Risk Classifier

Python, Scikit-learn, Pandas, Random Forest, Decision Tree, Tkinter

- Developed a machine learning-based credit risk assessment system achieving **97% classification accuracy**, with a Tkinter interface for real-time loan eligibility prediction.

Achievements

- Merit-Based Scholarship (Rs. 6,00,000+)** awarded for academic excellence.
- Cummins Scholarship** awarded for outstanding academic performance in Classes X and XII.
- Competitive Programming:** Solved 200+ DSA problems across LeetCode and CodeChef.