

HEMANGA KASHYAP

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Professional Summary

Computer Science undergraduate (AI/ML specialization, CGPA 8.64) with hands-on experience building end-to-end Machine Learning and Generative AI applications using Python, LangChain, Scikit-learn, and Flask/Streamlit. Skilled in Retrieval-Augmented Generation (RAG), predictive modeling, ensemble learning, and LLM integration (NVIDIA NIM), with proven ability to deliver production-grade AI systems achieving up to 91.6% ROC-AUC and 100% retrieval precision. Strong foundation in DSA, DBMS, and Operating Systems; competitive programmer with national-level mathematics recognition.

Technical Skills

Programming Languages: Python, Java, C++

Frameworks & Libraries: Flask, Streamlit, LangChain, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, XGBoost, sentence-transformers

Databases & Vector Stores: MySQL, ChromaDB

AI/ML & GenAI: Machine Learning, Retrieval-Augmented Generation (RAG), LLM Integration (NVIDIA NIM), Predictive Analytics, Ensemble Methods (Random Forest, Gradient Boosting, XGBoost), Feature Engineering, Model Evaluation (ROC-AUC), SMOTE, Embeddings, Data Visualization

Developer Tools: Git, GitHub, Jupyter Notebook, VS Code, Kali Linux, VMware

Core CS: Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks

Education

Lovely Professional University

Bachelor of Technology in Computer Science and Engineering (AI/ML Specialization)

August 2024 – 2028

Punjab, India

CGPA: 8.64/10 **Relevant Coursework:** Machine Learning, Generative AI, Data Analytics, Data Visualization, DSA, Database Management, Computer Networks, Operating Systems

Projects

MultiDocChat – Multi-Document RAG Chat Assistant | *Python, LangChain, ChromaDB, Streamlit* | 🌐 **Jul 2026**

- Architected an end-to-end **Retrieval-Augmented Generation (RAG)** pipeline using **LangChain** and **ChromaDB** (per-session vector store), achieving **100% retrieval precision@k** (15/15) across multi-document evaluation sets.
- Integrated local **sentence-transformers** (all-MiniLM-L6-v2) for zero-cost embeddings and **NVIDIA NIM** (meta/llama-3.1-8b-instruct) for LLM inference, with support for PDF, DOCX, TXT, and Markdown inputs.
- Engineered source conflict-detection logic with **100% recall** (3/3) on contradicting document pairs, with inline citations, per-source chunk retrieval, and multi-turn conversation memory.
- Deployed on **Streamlit Cloud**: multidocchats.streamlit.app

DropoutQI – Student Dropout & Academic Risk Prediction | *Python, Flask, Pandas, Scikit-learn* | 🌐 **May 2026**

- Engineered a **Hybrid Soft-Voting Ensemble** (Gradient Boosting, Logistic Regression, Random Forest) in Scikit-learn, achieving **91.6% ROC-AUC** on student academic-risk classification.
- Architected and deployed a **Flask-based web application** for real-time dropout risk scoring, processing student academic records with Pandas for feature preprocessing and model inference.
- Optimized model performance through feature selection and hyperparameter tuning, reducing false-negative risk flags to support early academic intervention workflows.

Certifications

- Introduction to Large Language Models** – Google Cloud Skills Boost (Dec 2025)
- Introduction to Generative AI** – Google Cloud Skills Boost (Dec 2025)
- CodeClash Coding Competition** – Accenture (Oct 2024)
- Leadership Fundamentals** – Skillsera (Oct 2024)
- Python Skills Certification** – HackerRank (Sep 2024)
- Cyber Security and Ethical Hacking Workshop** – Secuneus (Sep 2024)
- Alephium Forge Workshop – NFT & Blockchain** (Aug 2024)

Achievements

- Ranked **Top 30** among participants in **CodeXtreme 4.0** (Java) hosted by iamneo, LPU (Apr 2026).
- Won **1st Place** in CodeClash Coding Competition, outperforming **200+ participants** (Nov 2024).
- Ranked among the **Top 3 in Assam** for **IOQM** (Indian Olympiad Qualifier in Mathematics) (Jan 2023).
- Coding Profiles: [LeetCode](#) | [HackerRank](#)