

# Binisha Chapagain

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## Education

Lumbini ICT Campus, Tribhuvan University

Nepal

Bachelor of Computer Application

Jan 2022 – Present

Courses: Operating System, Data Structures, Object Oriented Programming, Computer Graphics, Database.

## Skills

- **Languages:** Python, JavaScript, HTML/CSS.
- **ML/Frameworks:** NumPy, Pandas, Nltk, scikit-learn, Seaborn, Matplotlib, Streamlit.
- **Others:** Machine Learning, Deep Learning, NLP, Flask, Git/GitHub, MySQL, LangChain, LlamaIndex, Huggingface Vector DBs, GPT, Claude, LLMs, RAG,

## Projects

- **HR Policy RAG Chatbot**  
Built a Retrieval-Augmented Generation (RAG) chatbot that answers HR policy questions using JSON documents and FAISS vector database. Integrated Groq's LLaMA 3 model for fast inference and used MMR retrieval for diverse, accurate responses.  
*Tools: LangChain, FAISS, Groq, HuggingFace, Streamlit*
- **PDF InsightBot – Chat & Summarize Your PDF**  
Developed a RAG-powered chatbot allowing users to upload PDFs and ask questions or generate summaries. Implemented Parent-Child document splitting for improved context retention and better answers.  
*Tools: LlamaParse, LangChain, ChromaDB, HuggingFace, Streamlit*
- **PDF Parsing & QA Chatbot**  
Designed a system that parses PDFs using LlamaParse, embeds content, and enables question answering. Integrated Gemini API and built UI using Streamlit.  
*Tools: LlamaParse, LangChain, Gemini, Streamlit*
- **Heart Disease Prediction**  
Developed a classification model using health metrics like age and cholesterol. Trained Logistic Regression and Random Forest, achieving strong accuracy.  
*Tools: Python, scikit-learn, pandas, seaborn*
- **House Price Prediction**  
Built a regression model predicting house prices from size, location, and features. Evaluated with MAE, MSE,  $R^2$ .  
*Tools: Python, NumPy, pandas, scikit-learn*

## Training

AI Machine Learning Practical Training

2025

Organized by Lumbini ICT Campus — Guided by: Abinash Pant (Inspiring Lab)

Participated in a hands-on training focused on building intelligent systems using modern ML and GenAI tools. Explored Retrieval-Augmented Generation (RAG), LangChain framework, vector stores (FAISS, ChromaDB), and autonomous agents. Built a functional PDF-interactive AI chatbot as a capstone project.