Krishna Narayan Shrestha

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Profile Summary

Aspiring AI Engineer with strong foundations in machine learning, deep learning, and LLM-based applications including RAG and multi-agent systems. Proficient in Python and skilled in developing end-to-end AI projects through hands-on experimentation. Passionate about building intelligent systems and solving complex AI problems.

Education

B.E. Computer Engineering 2020–2025
Khwopa Engineering College, Purbanchal University, Nepal
Relevant Coursework: Artificial Intelligence, Data Mining, DBMS, OOP

Technical Skills

Languages: Python, SQL
Data Science / ML / DL: Data preprocessing, feature engineering, model training & evaluation, data visualization; Scikit-learn, TensorFlow, Keras, NumPy, Pandas, Matplotlib
LLMs / RAG: LangChain, LlamaIndex, OpenAI API, FAISS, Agentic AI
Frameworks / Tools: FastAPI, Flask, Streamlit, Git, Jupyter Notebook, VS Code
Databases: PostgreSQL, MySQL, SQLite

Projects

Multi-Agent Travel Planner [GitHub] Python, Streamlit, Gemini API

- Built a multi-agent system (Destination, Budget, Itinerary, Weather) for personalized travel planning.
- Integrated OpenTripMap and WeatherAPI with Gemini for reasoning and summarization.

Talk With Your Document (LLM QA) [GitHub] Python, Streamlit, Gemini API

- Developed a RAG pipeline with document chunking, embeddings, and similarity search.
- Enabled context-aware question answering for PDF, DOCX, and TXT documents.

Facial Recognition Attendance System [GitHub] Python, OpenCV, Flask, PostgreSQL

- Implemented MTCNN-based face detection and FaceNet embeddings with a custom classifier.
- Developed automated attendance marking with a timed session window and absence handling.
- Built Flask APIs and integrated PostgreSQL for student, course, and attendance data.
- Designed a data pipeline for image capture, face alignment, dataset preparation, and storage.

Spam SMS Classifier [GitHub] Scikit-learn, NLP

- Achieved 97% F1-score using Naive Bayes with TF-IDF features.
- Implemented full NLP pipeline including tokenization, lemmatization, and stopword removal.

Certifications

- AI with Python (Machine Learning, Deep Learning, Generative AI) — Broadway Infosys   Aug 13, 2025 – Oct 28, 2025

Other Skills & Interests

Soft Skills: Problem-solving, Teamwork, Communication
Interests: LLMs, RAG Systems, Multi-Agent AI, AI Product Engineering