

Samir Paudel

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Skills & Tools

ML/LLMs: PyTorch, Transformers (BERT, GPT, T5), fine-tuning with LoRA, QLoRA, PEFT (unsloth, axolotl), LangChain, LangGraph, LlamaIndex, RAG pipelines, RAG Evaluation

Data & Backend: FastAPI, Streamlit, SQL, VectorDBs (Chroma, FAISS), Scikit-learn, Pandas, NumPy, Plotly

Deployment & DevOps: Docker, Linux (daily user for 2+ years), Git, GitHub, AWS (ECS, Lambda), Vercel/render, HF Spaces, Basic familiarity with Kafka, Apache Airflow, Snowflake, Microservice architectures

No-Code/Low-Code:- Bubble.io, Glide, Zapier, Xano, Airtable, Workflow automation tool - n8n

Experience

Independent AI/ML Developer

2024 – Present

[365DaysOfData](#) - [Github](#) [🔗](#)

- Designed and deployed 10+ end-to-end ML/AI projects from ideation to production, including NLP pipelines, recommender systems, and LLM-powered applications
- Built 5+ RAG systems using LangChain and ChromaDB along with FAISS; integrated with Ollama, HF, OpenAI, Anthropic APIs for RAG
- Developed multiagent workflows using LangGraph for autonomous task execution; implemented evaluation frameworks with LangSmith and DeepEval
- Deployed 9+ Streamlit applications to production for real-time inference; migrated frontend application to Vercel with Render for backend.
- Published projects with comprehensive documentation and reproducible code;

Education

Bachelor of Computer Science (CSIT)

2022 – 2026 (Expected)

Patan Multiple Campus, Lalitpur

Secondary Education (Science)

2020 – 2022

Kalika Manavgyan Secondary School, Rupandehi

Projects

Football Players Market Value Prediction

ML Pipeline

- Scraped and cleaned 18,000+ player records from Sofifa; engineered 50+ features; trained GradientBoost achieving 94% accuracy
- [GitHub](#) [🔗](#) — [Live Demo](#) [🔗](#)

Guess The Footballer By Eyes

Computer Vision

- Trained ResNet18 classifier on 25 footballer eye images achieving 70% accuracy; deployed interactive Streamlit game with scoring system and you can compete against AI.
- [GitHub](#) [🔗](#)

Movie Recommender System

Recommender System

- Built content-based recommender using TF-IDF and cosine similarity on 5,000-movie TMDb dataset with search-by-title functionality
- [GitHub](#) [🔗](#) — [Live Demo](#) [🔗](#)

cineRank – Movie Ranker App

NLP & Sentiment

- Fine-tuned BERT on IMDb reviews achieving 92% sentiment classification accuracy; deployed full-stack leaderboard on Vercel with watchlist features

- [GitHub](#) — [Live Demo](#)

GPT from Scratch

LLM Foundations

- Implemented full transformer architecture in PyTorch: bigram model, self-attention, multi-head attention, positional encoding, GPT blocks
- [GitHub](#)

Choose Your Own Adventure

GenAI Application

- Engineered interactive fiction app using LLMs for dynamic branching narratives based on user-provided themes; implemented choice-based progression with visual story mapping
- [GitHub](#)

Seq2Seq Chatbot with Attention

Seq2Seq NLP

- Developed encoder-decoder architecture with Luong attention mechanism in PyTorch; trained on Cornell Movie-Dialogs Corpus for conversational AI
- [GitHub](#) — [Live Demo](#)

Projects-Based-GenAI

Collection

- Multi-model experiments, Cat vs Dog Classifier (VGG16, 95% accuracy), Image Captioning (ResNet-18 encoder, Transformer decoder, BLEU-4: 0.18), LLaMA fine-tuning with QLoRA, Unsloth-optimized Alpaca & Gemma2-9B tuning, RAG pipeline evaluation with MLflow, multimodal quiz app, voice cloning prototype, text-to-image generator, Bhagavad Gita expert chatbot
- [Project Folder](#)

Project-Based-AgentAI

Collection

- Applied agentic workflows using LangGraph and LangChain: single-agent reasoning systems, tool-augmented chat with memory, multi-agent debate simulation, custom Model Control Protocol (MCP) implementation from scratch, experimental persona-based agent design
- [Project Folder](#)

Languages

- English (fluent, written & verbal)
- Spanish (beginner)
- Nepali (native)