

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 & Evaluation
Data / Backend	FastAPI, Streamlit, SQL, VectorDBs (ChromaDB, FAISS), Convex, Scikit-learn, Pandas, NumPy, Plotly
Full-Stack	Next.js 14, TypeScript, Clerk Auth, shadcn/ui, Tailwind CSS
DevOps/Cloud	Docker, Linux (2+ yrs daily), Git, GitHub, AWS (ECS, Lambda), Vercel, Render, HF Spaces; familiarity with Kafka, Apache Airflow, Snowflake, microservice architectures
No-Code	Bubble.io, Glide, Zapier, Xano, Airtable, n8n

EXPERIENCE

Independent AI/ML Developer

2023 – Present

[365DaysOfData](#) — Self-directed, open-source

- Designed and deployed **10+ end-to-end ML/AI projects** from ideation to production, spanning NLP pipelines, recommender systems, and LLM-powered applications.
- Built **more than 5 RAG systems** (LangChain, ChromaDB, FAISS) integrated with Ollama, Hugging Face, OpenAI, and Anthropic APIs; developed multi-agent workflows with LangGraph, evaluated via LangSmith and DeepEval.
- Deployed **9+ Streamlit applications** to production; migrated frontends to Vercel with Render backend; all projects published with 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

Nyayak — Full stack AI application(FYP)

[Code](#)

- Four-module legal assistant platform for nepal: **AI chatbot**, grounded on Nepal's Constitution 2072 via ChromaDB; **lawyer marketplace** with content-based scoring (category match, bio TF, availability); **court navigator** via Dijkstra's shortest path across 77 districts; **forum** with PageRank reputation and DFS thread traversal.

MeanTrainer — Full-Stack GenAI Application

[Code](#) | [Live](#)

- AI fitness web app that runs a **Vapi voice interview** to capture the user's health profile, then generates a personalized weekly gym plan and diet plan via **Google Gemini**; programs stored in **Convex DB** with Clerk authentication (GitHub, Google, email).

cineRank — Movie Ranker App — NLP & Sentiment Analysis

[Code](#) | [Live](#)

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

Football Player Market Value Prediction — ML Pipeline

[Code](#) | [Live](#)

- Scraped and cleaned **18,000+ records** from Sofifa; engineered **50+ features**; trained GradientBoost achieving **94% accuracy**. one of my first ml projects

Choose Your Own Adventure — GenAI Application

[Code](#)

- LLM-driven interactive fiction with dynamic branching narratives, choice-based progression, and visual story mapping.

Movie Recommender System — Recommender System

[Code](#) | [Live](#)

- Content-based recommender using **TF-IDF and cosine similarity** on a 5,000-movie TMDB dataset with search-by-title functionality.

Guess The Footballer By Eyes — Computer Vision

[Code](#) | [Live](#)

- **ResNet18** classifier trained on footballer eye crops achieving **70% accuracy**; deployed as an interactive Streamlit game with AI opponent and scoring.

Image Captioning — *Computer Vision*

[Code](#) | [Live](#)

- **ResNet-18** encoder + Transformer decoder pipeline achieving **BLEU-4: 0.18**; deployed on Streamlit.

Seq2Seq Chatbot with Attention — *Seq2Seq NLP*

[Code](#) | [Live](#)

- Encoder-decoder with **Luong attention** in PyTorch trained on the Cornell Movie-Dialogs Corpus; deployed on Streamlit.

GPT from Scratch — *LLM Foundations*

[Code](#)

- Full transformer architecture in PyTorch: bigram model, multi-head self-attention, positional encoding, and GPT blocks built from first principles.

GenAI Mini Projects Collection — *RAG, Fine-tuning, Agents*

[Code](#)

- Cat vs Dog (VGG16, **95%**), LLaMA / Gemma2-9B fine-tuning with QLoRA & Unsloth, RAG evaluation (MLflow), voice cloning, text-to-image, Bhagavad Gita expert chatbot.

Agentic AI Mini Projects Collection — *LangGraph, LangChain*

[Code](#)

- Single/multi-agent reasoning, tool-augmented memory chat, multi-agent debate, custom MCP implementation from scratch, persona-based agent design.

12 Additional Mini-Projects — *Web Apps, Games, CLI Tools*

pauelsamir.github.io/projects#others

- Spotify Clone, Netflix Clone, Blackjack, Snake, Hangman, Caesar Cipher, Calculator, Coffee Machine, Quiz App, Turtle & GUI, and more — all open-source on GitHub.

LANGUAGES

Nepali — Native

English — Fluent

Spanish/German — Beginner

Last updated: March 2026