Samir Paudel

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SUMMARY

AI developer from Nepal experienced on building and deploying **tons of solutions** across traditional ML, LLMs, RAG, NLP, computer vision, and recommender systems. Skilled in Python, LLMs, and agents for the purpose of delivering simple AI applications to solve general problems. currently exploring AI safety and security.

TECHNICAL SKILLS

Programming & ML: Python, C++, PyTorch, Transformers (BERT, GPT, T5)

Core Competencies: NLP, Computer vision, Recommender systems, Feature engineering, Model training and evaluation(Langsmith, DeepEval), LLM fine-tuning (LoRA, QLoRA, PEFT, Unsloth), RAG, Agentic AI & Generative AI (LLMs, LangChain, LangGraph, Ollama, LangSmith, DeepEval)

Development Tools: FastAPI, Streamlit, REST APIs, ChromaDB, FAISS, SQL, Pandas, NumPy, Plotly, Next.js, TypeScript, Tailwind CSS, Docker, Linux, Git, GitHub, Vercel, Render, HF Spaces

EXPERIENCE

Freelance AI Engineer *2023 – Present*

365DaysOfData | Dec 2024 – Dec 2025 | 50+ GitHub stars | 7 forks

Year long journey of learning building and documenting (major milestones below)

- **Delivered** a RAG application (product information) and a LangGraph multi-agent workflow (Customer support), and benchmarked quality with LangSmith and DeepEval to different clients.
- Designed, developed, and deployed **10+ AI/ML projects** spanning NLP pipelines, recommender systems, computer vision, and LLM-powered applications.
- Built **5+ RAG systems** integrating major LLM APIs,
- Deployed **9+ Streamlit applications** and delivered full-stack systems using Vercel frontends with Render-hosted backends.

PROJECTS

Nyayak *Full-Stack Legal AI Platform (Vercel, Render, Hybrid RAG, Groq, Geolocation, TS)* | **Code** | **Live**

- Built a four-module platform featuring a legal RAG chatbot grounded in Nepal's Constitution 2072 with ChromaDB, a content-based lawyer recommender, a Dijkstra-based court navigator spanning 77 districts, and a forum using PageRank and DFS.

MeanTrainer *Full-Stack Generative AI Application (Vapi, Clerk, Convex, Gemini API, Nextjs, TS)* | **Code** | **Live**

- Developed an AI fitness application using Vapi voice interviews and Google Gemini to generate personalized weekly workout and diet plans;
- Enforced Convex for persistence and Clerk for GitHub, Google, and email authentication.

Football Player Market Value Prediction *Machine Learning Pipeline (Python, Scikitlearn, Pandas, Streamlit)* | **Code** | **Live**

- Scraped and cleaned **18,000+ Sofifa records**, engineered **50+ features**, and trained a gradient-boosting model achieving **94% accuracy**; deployed with Streamlit.

CineRank & Movie Recommender *NLP and Recommendation Systems (Supabase, Hugging Face API; Streamlit, Pandas, TMDB API)* | **cineRank** | **Recommender**

- Fine-tuned BERT on IMDb reviews and achieved **92% sentiment accuracy** for cineRank; built a second movie-discovery system using TF-IDF and cosine similarity across a 5,000-movie TMDB dataset.

Additional Projects

- Personal Wiki: Personal-data RAG assistant; tailored resume builder (in dev) (Jekyll, GitHub Pages, RAG pipeline).
- Choose Your Own Adventure: LLM-driven interactive stories with branching narratives (Ollama, Llama 3.2, vis-network).
- Cat vs Dog Classifier: VGG16 image classification with 95%+ accuracy (VGG16, Transfer Learning, Streamlit).
- Guess the Footballer: ResNet18-based footballer recognition from eye images (ResNet18, Image processing)
- Image Captioning: ResNet-18 and Transformer pipeline for generating image captions (ResNet-18, Transformer Decoder, BLEU-4).
- Seq2Seq Chatbot: PyTorch encoder-decoder chatbot with Luong attention (Bidirectional GRU, Luong Attention, Teacher Forcing).
- GPT from Scratch: Transformer language model built from first principles (Multi-Head Attention, Residual Connections, Layer Norm).
- EDA Projects: Collection of exploratory data analysis projects (Pandas, Matplotlib, Seaborn).
- GenAI Mini Projects: RAG, QLoRA fine-tuning, evaluation, and voice/image generation (QLoRA, DeepEval, Multimodal).
- Agentic AI Projects: Agents with memory, tool use, debate, and MCP integration (LangGraph, MCP Integration, Multi-Agent Debate).
- View All Projects: Web applications, CLI tools, Bash scripts, Linux dotfiles, Quickshell, plugins, and design customization.

EDUCATION

Bachelor of Computer Science and Information Technology (BSc CSIT) *2022 – 2026 (Expected)*

Patan Multiple Campus, Lalitpur, Nepal | **Languages:** Nepali (Native), English (Fluent)