

Yunish Udas

Bachelor of Science in Computer and Information Technology
Kathmandu, Nepal

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🌐 Portfolio

🐙 GitHub: github.com/unixx0

TECHNICAL SKILLS

Programming: Python, JavaScript, SQL

LLM & Agent Systems: LangChain, LangGraph, CrewAI, HuggingFace, Ollama, RAG pipelines, prompt engineering, retrieval workflows

ML/CV & Data: TensorFlow, Pandas, NumPy, OpenCV, Matplotlib

Backend & Databases: Streamlit, FastAPI, MySQL, SQLite, ChromaDB

Developer Tools: Git, GitHub, LlamaParse

Platforms: Linux, Windows, Web

TRAINING & CERTIFICATIONS

•Python Basics and Machine Learning Syllabus

30 Hours (Python for Machine Learning)

Completed

- Built foundation across Python, data structures, data preprocessing, model selection (Linear Regression, Decision Tree).

•Python with Machine Learning (Volume II: Advanced ML & Deep Learning)

30 Hours (Estimated)

Completed

- Advanced training in deep learning and CNNs, covering core neural network design, digit recognition, and transfer learning concepts for practical vision use cases.

EDUCATION

•Texas International College

Bachelor of Science in Computer and Information Technology

2023 – Present

Kathmandu, Nepal

- Relevant Coursework: Operating Systems, Data Structures & Algorithms, Artificial Intelligence, Database System, Object-Oriented Programming, Computer Networks, Discrete Mathematics, Probability & Statistics, Microprocessor & Assembly.

•Global School of Science

Higher Secondary Education (Science), NEB; GPA: 3.83

2020 – 2022

Kathmandu, Nepal

PROJECTS

•Text-to-SQL (LangGraph, Streamlit, SQLite)

Production-oriented NL-to-SQL assistant with safety guardrails, retry logic, and structured agent flow

- Built a LangGraph pipeline that converts natural-language questions to SQL, executes on SQLite, and returns concise responses.
- Added intent gatekeeping, destructive-query confirmation, and auto-retry (up to 2 attempts) for safer and more reliable execution.
- Stack: Python, LangGraph, LangChain, Streamlit, SQLAlchemy, Groq, HuggingFace, SQLite.

•AI Blog Generator (Multi-Agent Content Pipeline)

Multi-agent content generation pipeline with web-assisted research, image synthesis, and export workflow

- Designed a multi-agent LangGraph workflow (router, planner, parallel workers) to generate structured technical blogs.
- Integrated optional Tavily research, Stable Diffusion image generation, and HITL export to Markdown/PDF outputs.
- Stack: Python, LangGraph, LangChain, Groq, HuggingFace, Tavily, Stable Diffusion, Py pandoc.

•HR Policy Q&A System (RAG, NLP, Streamlit)

RAG-based policy assistant for enterprise document retrieval and grounded response generation

- Developed a RAG workflow using LangChain + Gemini for HR policy question answering.
- Implemented chunking, embeddings, ChromaDB indexing, and SelfQueryRetriever for more relevant retrieval and responses.
- Stack: LangChain, Gemini API, HuggingFaceEmbeddings, ChromaDB, Streamlit.