

Sulav Paudel

📍 Kathmandu, Nepal ✉ itissulav8@gmail.com ☎ +977 9849000056 in itissulav 🌐 sulavpaudel.com
🔗 itissulav

Summary

AI-focused Computing undergraduate with hands-on experience in end-to-end NLP systems, transformer fine-tuning, concurrent data pipelines, and cross-platform full-stack development. Seeking a junior engineering role to apply expertise in machine learning, applied AI, and scalable software architecture.

Education

BSc (Hons) Computing with Artificial Intelligence *2023 – 2026 (Expected)*
Islington College, London Metropolitan University

Cambridge International A-Levels *2020 – 2022*
Budhanilkantha School

Work Experience

AI Fellowship Intern *Sep 2025 – Dec 2025*
Danson Solutions Pvt. Ltd.
Accomplished production-ready **NLP** application delivery by independently engineering the Public Sentiment Index, processing 8,000+ social media comments in under 30 seconds using Flask, RoBERTa, and Docker, while designing an **Optuna**-powered hyperparameter search system for **BERT fine-tuning** via the Hugging Face Trainer API.

Student Researcher *Aug 2022 – Jun 2023*
Incubate Nepal
Accomplished digital mapping of 300+ overlooked heritage sites by independently leading **full-stack** development of an interactive geolocation platform, owning **database architecture**, UI design, and backend implementation.

Skills

Languages & Frameworks: Python, TypeScript, JavaScript, SQL, Flask, FastAPI, React Native, Expo, NativeWind

AI / ML: NLP, Transformers, HuggingFace, RoBERTa, BERT, Optuna, Machine Learning, Deep Learning, LLM Integration, Gemini API, Pandas, scikit-learn

Infrastructure & Tools: Docker, PostgreSQL, Supabase, SQLite, Firebase, REST API, MVC Architecture, Concurrent Programming, Git, GitHub

Projects

Public Sentiment Index [GitHub](#) 
Accomplished real-time sentiment quantification across 8,000+ social media comments per search in under 30 seconds by engineering a **concurrent** multi-platform pipeline using Python **ThreadPoolExecutor**, Reddit PRAW, and YouTube Data API; outputs a custom PSI Score via **RoBERTa** sentiment analysis with Gemini-powered source discovery and a **PostgreSQL** backend through a Flask MVC application.
Stack: Python, Flask, PostgreSQL, Supabase, RoBERTa, HuggingFace, Google Gemini API, Docker, Optuna, Concurrent Programming

Kharcha [GitHub](#) 
A cross-platform **offline-first** personal finance tracker with multi-account management, a duplicate-safe recurring transaction engine, budget alerts, and a live analytics dashboard; independently designed the full stack including **SQLite** schema, Firebase auth, Expo Router navigation, and a **TypeScript** codebase with 20+ domain types.
Stack: React Native, TypeScript, Expo, SQLite, Firebase, NativeWind, Expo Router, React Native Gifted Charts

YouTube ReCapQuiz [GitHub](#)  | [Web Store](#) 
A shipped **Chrome extension** that generates AI-powered quizzes from YouTube videos using the **Gemini 2.5 API**, promoting active recall and content retention; available on the Chrome Web Store.
Stack: JavaScript, HTML/CSS, FastAPI, Gemini 2.5 API, Chrome Extension API (Manifest V3)

Awards & Achievements

- Finalist, Hult Prize at IOE (2024), global social entrepreneurship competition