Satyam Lamsal

Computer Engineering Student — Full-Stack Developer & AI/ML Researcher

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Professional Summary

Motivated Computer Engineering student with hands-on experience in **full-stack web development, deployment, and AI/ML research**. Sole creator of production platforms, from UI/UX and backend logic to hosting, DNS, and deployment. Research experience with **Graph Neural Networks and LLMs** for sentiment analysis and fake news classification. Strong ownership, reliability, and system-oriented thinking.

Experience

Full-Stack Web Developer — Development, Operations & Maintenance

Oct 2025 – Present

Department of Electronics & Computer Engineering, IOE Pulchowk Campus, TU

- Built the department website and a CMS for PhD professors to publish their research articles
- Implement content updates and new feature requirements on request, on an ongoing basis
- Handle operations, maintenance, and overall technical support for the department's web platforms

GNN Researcher (Part-time)

Apr 2026 – Present

Department of Electronics & Computer Engineering, in collaboration with PhD Professors

- Research on sentiment analysis and fake news classification using various GNN and LLM algorithms
- Handled the full pipeline: data collection, cleaning and refinement, model training and evaluation

Education

Bachelor of Engineering in Computer Engineering

Pulchowk Campus, IOE — Tribhuvan University

Expected 2028

Elementary to High School

SOS Hermann Gmeiner School, Sanothimi, Bhaktapur

Technical Skills

AI & Machine Learning

- Machine Learning, Deep Learning, Neural Nets
- Backpropagation, Gradient Descent, Optimizers
- GNNs, LLMs, NLP, Sentiment Analysis
- Data Collection, Cleaning, Model Training

Web & Backend

- HTML5, CSS3, JavaScript, Next.js, MERN
- 3-Tier Architecture, CMS, SQL, REST APIs

Networking & Deployment

- DNS Configuration, Domain Hosting, Proxying
- Deployment (Vercel, GitHub Pages)

Languages & Tools

- C, C++, Python, JavaScript, SQL, Shell
- Git, GitHub, VS Code, Bash, PowerShell

Strengths & Focus

- Full ownership; works independently
- Strong problem-solving and debugging mindset
- Versatile across web, AI/ML, and deployment
- Quick learner; reliable and deadline-focused

Projects

analytics.pcampus.edu.np — 3-Tier App

- Sole creator; designed, built and deployed
- Presentation, application and database tiers

GNN Fake News Classifier

- Graph Neural Network model to detect fake news

Data Analysis & Classification

- Data exploration and ML classification models

Data Cleaning & Processing

- Cleaning and preprocessing raw datasets

Quiz Book — Interactive Quiz Platform

- Interactive quizzes across multiple subjects
- Mobile-first UI; deployment, DNS and hosting

Learn DSA — DSA Learning Platform

- Visual, interactive DSA explanations
- Next.js; auth, bookmarks, progress tracking

MeroSaathi — AI Chat Web App

- AI chat with custom character creation
- Next.js; real-time API-based conversations

Personal Portfolio Website

- Responsive; hosting and DNS self-managed

Gym Management System (C++)

- Console-based OOP system with SQL records

Tic Tac Toe AI Agent (Python)

- AI agent with optimal decision-making strategy

MS Paint Clone (C++ & SDL2)

- Drawing tools, event handling, UI