

Sarshij Karn

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PROFILE

I am an **Electronics, Communication & Information Engineering** student who builds real systems across AI, software, and embedded domains. Hands-on with **Python, web technologies, ML-driven applications** and **electronics**.

EDUCATION

Bachelor's in Electronics, Communication and Information Engineering, National College Of Engineering (T.U)	2024 – Present Lalitpur, Nepal
Grade - XII (NEB), Liverpool International College GPA: 3.53	2023 Kathmandu, Nepal
Grade - X (NEB), Happyland Secondary School GPA: 4.00	2021 Saptari, Nepal

SKILLS

TECHNICAL SKILLS

- **Languages:** C, C++, Python
- **Web Development:** HTML5, CSS3, JS, React
- **Electronics & Embedded Systems:**
Microprocessors and Microcontrollers, Circuit Simulation, PCB prototyping
- **Tools & Platforms:** Git & Github, cloud hosting
- **AI & Automation Tools:** GPT/LLM, n8n, Zapier, Opal and more.
- **Cybersecurity:** Linux terminal operations, networking and security
- **AI Fluency** - Proficient in integrating AI tools to optimize workflows and accelerate development.

SOFT SKILLS

- **Creative Problem Solving** - Turns real world problems into useful projects
- **Self-Learner** - Quickly adapts to new tools, technologies, and concepts
- **Cross-Domain Thinker** - Integrating engineering, AI and finance
- **Strong Communication Skill** - Explains complex ideas in simple ways
- **Growth Mindset** - Learns rapidly from setbacks and continuously improves
- **Focus & Consistency** - Delivers results with patience and discipline
- **Collaboration** - Works well in teams, remote or hybrid environments

LANGUAGES

English (Proficient) • **Nepali** (Native) • **Hindi** (Conversational) • **Maithili** (Conversational)

🔗 Interests

— Cybersecurity • — Technology & AI • — Bootcamps & Workshops • — Hackathons • — Sports • — Reading • — Documentaries

📁 PROJECTS

Personal Portfolio Website

A fully responsive portfolio using HTML5, CSS3, JavaScript, GSAP animations, parallax & glitch effects, serverless APIs on Vercel with Axios, secured with XSS/CORS protections and Cloudflare Turnstile, featuring a cyber terminal and interactive holo-companion.

Reddit Data Scraper

A powerful Python tool to scrape posts and comments from a specific subreddit starting from a given year using two ways: *With API Credentials*: Faster, more reliable, uses the official Reddit API (PRAW). *No Credentials*: Works but is slower and relies on public JSON pages.

SmartVault- Text and Photo Notes App

Secure, privacy-first notes that support text and photos, with a local PIN-protected vault and optional AI-powered image enhancements via Google Gemini. Built with React, TypeScript, and Vite.

MedAssist - AI-Powered Medical Assistant

An assistant for rural communities, offering instant symptom analysis, voice interaction, and bilingual (English/Nepali) support analyzing medical reports and providing offline first-aid guides.

WhatsApp Automation & Messaging Tool

A desktop automation tool for WhatsApp messaging using Python and Custom Tkinter, featuring a responsive GUI, Excel (.xlsx) bulk number loading, multi-file attachment handling, group automation, and multiple messaging modes including sequence, bulk, and repeat sending.

HyperQR – Advanced QR Code Scanner & WiFi Connector

A Python-based scanner to instantly create or scan from camera or images, auto-connect WiFi, batch-process hundreds of files, track smart history, export CSV, recognize 10+ QR types, and enjoy a sleek, lightning-fast modern UI with real-time feedback.

Gesture Based Calculator With Speech Output

Developed a gesture-controlled calculator in python that performs arithmetic operations based on hand gestures tracked via webcam. It detects fingers to input numbers and thumb proximity to assign operators. Integrates speech feedback and full-screen real-time overlay interface.

Emotion Detection Model

Developed a Python-based machine learning model using OpenCV and deep learning to detect human emotions from real-time facial expressions.

YouTube Channels Bulk Unsubscriber

A simple desktop tool that allows you to bulk-unsubscribe from YouTube channels using your own Google account. Built with Python, Tkinter, YouTube API v3, and OAuth 2.0 authentication.

AWARDS

Certificate of Achievement, The Startup Network, Embark College & PHDCCI (India-Nepal Centre)
For **Startup Hackathon** 2025 on the topic "AI for Social Impact and Scale"

Full Merit Scholarship, National College Of Engineering
For Engineering studies after excelling in the Engineering Entrance Exam.

Certificate Of Achievement, Free Students Council (NCE)
For successfully completing Training on **Cloud Computing**.

Certificate of Achievement, IT Club (NCE)
For successfully completing Training on **Python Programming**.

Declaration

I hereby declare that the information provided above is true and accurate to the best of my knowledge and belief. I take full responsibility for its authenticity and I am committed to upholding integrity in all academic and professional pursuits.



Sarshij Karn
Kathmandu, Nepal