

Sarshij Karn

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PROFILE

I'm an enthusiastic **engineering student** with a strong drive to use technology to solve real-world problems. Skilled in **electronics, programming and AI**, I also stay ahead of the curve by actively exploring AI tools and keeping up with emerging tech trends.

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, Git, GitHub
- **Electronics & Embedded Systems:** Arduino, Circuit Simulation, Signal and Systems
- **Prompt Engineering:** GPT-based prompt design, task automation, role-based agents
- **AI & Automation Tools:** OpenAI API, n8n, Zapier, Opal and more.
- **Cybersecurity:** Linux scripting, ethical hacking (learning stage)
- **AI Fluency** - Proficient in integrating AI tools to optimize workflows, accelerate development, and solve problems creatively.

SOFT SKILLS

- **Creative Problem Solving** - Turns real world problems into useful projects
- **Self-Learning** - Quickly adapts to new tools, technologies, and concepts
- **Cross-Domain Thinking** - 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 • — Playing Sports • — Reading Books • — Hackathons & Workshops • Human Psychology

PROJECTS

Emotion Detection Model

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

Personal Portfolio Website

Designed and developed a fully responsive portfolio using HTML5, CSS3, and JavaScript to showcase skills, projects, and achievements.

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.

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.

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.

YouTube Playlist Downloader

A simple Python application to download YouTube playlists and videos with both CLI and GUI interfaces. Download entire YouTube playlists or single videos with multiple quality options (Best, 1080p, 720p)

AWARDS

Merit-Based Scholarship, Liverpool International College

Awarded for outstanding academic performance in Grades 11 and 12

Full Merit Scholarship, National College Of Engineering

Awarded for engineering studies after excelling in the engineering entrance exam on the first attempt

Certificate Of Participation

Awarded for active participation in multiple hackathons and technical workshops on electronics, AI, cybersecurity, and software development, both within and outside college.

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 am committed to upholding integrity in all academic and professional pursuits.



Sarshij Karn

Kathmandu, Nepal