

Sarshij Karn *AI-Powered Engineering Enthusiast*

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PROFILE

Insightful and dedicated engineering student passionate about applying technology to address real-world challenges. Proficient in electronics, programming and fluent in AI tools and up-to-date with emerging technology trends.

EDUCATION

Bachelor's in Electronics, Communication and Information Engineering, 2024 – Present | Lalitpur, Nepal
National College Of Engineering (T.U)

Grade – XII (NEB), *Liverpool International College* 2022 – 2024 | Kathmandu, Nepal
GPA: 3.53

Grade – X (NEB), *Happyland Secondary School* 08/2021 | Saptari, Nepal
GPA: 4.00

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 and more
Cybersecurity & Terminal: Linux scripting, ethical hacking (learning stage)
Tools & IDEs: VS Code, Arduino IDE, Google Colab, Replit, Trae
Cloud platforms: (Netlify, Vercel, Cloudflare GitHub Pages)
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 projects
Self-Learning – Learns tools, tech, and concepts fast
Cross-Domain Thinking – Blends engineering, AI and finance
Emotional Intelligence – Balances logic, empathy, and humor
Strong Communication – Explains complex ideas in simple ways
Growth Mindset – Fails fast and learns faster
Focus & Consistency – Builds with patience and discipline
Collaboration – Works well in teams, remote or hybrid

LANGUAGES

- **English** (Fluent)
- **Nepali** (Native)
- **Hindi** (Fluent)
- **Maithili** (Conversational)

INTERESTS

— **Technology & AI** | **Financial Markets (Stocks & Forex)** | **Web & Tech Exploration** | **Watching Fiction, Biographies and Documentaries** | **Playing Sports** | **Creative Writing & Storytelling** | **Reading Books** | **Hackathons and Workshops**

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.

Habibi Assistant

Built an offline voice-activated AI assistant in Python capable of answering questions, telling jokes, reporting system stats, searching the web, and chatting via natural speech. Integrated SpeechRecognition and OpenAI API for smart responses and interactive dialogue.

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.

A handwritten signature in black ink, appearing to read 'Sarshij Karn', with a horizontal line drawn through it.

Sarshij Karn
Kathmandu, Nepal