

# Samip Lamsal

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## PROFESSIONAL SUMMARY

A driven and passionate final year Computer Science student dedicated to solving real-world problems using the latest technologies. Skilled in Artificial Intelligence and Software Development, with hands-on experience from top IT companies in Nepal, including Fusemachines and Leapfrog Technology, as well as international organizations like Microsoft and the Hult Prize Foundation. Proven leadership in managing projects, leading committees, and organizing events, showcasing a strong ability to drive initiatives and collaborate with diverse teams. Also, actively sharing tutorials in my YouTube channel 'SL7 Tech'.

## EDUCATION

<b>Amrit Science Campus, Tribhuvan University</b> - 80.36% (Ongoing) Bachelor of Science in Computer Science & Information Technology	Kathmandu, NP 2021-2025
<b>Uniglobe HSS   SLC</b> - 3.65 GPA, A+	Kathmandu, NP
<b>Meridian International School   SEE</b> - 3.75 GPA, A+	Kathmandu, NP

## EXPERIENCE

<b>Student Partner</b> Leapfrog Technology	Apr. 2024 – Dec. 2024 Kathmandu, NP
<ul style="list-style-type: none"><li>Selected as one of 20 Leapfrog Student Partners for batch 2024, out of more than 600 applicants.</li><li>Received mentorship from Leapfrog Technology on numerous technical and non-technical topics like design thinking, version control, agile, web development, clean code, CI/CD, etc.</li><li>Organized sessions in local college community on above topics, also awarded as <b>Top 3 LSPs of the batch</b>.</li></ul>	
<b>AI Fellow</b> Fusemachines	Apr. 2024 – Oct. 2024 Kathmandu, NP
<ul style="list-style-type: none"><li>Selected among top 200 AI Fellows from 2000+ applicants.</li><li>Did courses on Machine Learning, Deep learning, NLP, Generative AI taught by experts.</li><li>Developed a Nepali Document and Record Management System, which got featured as one of the best projects.</li></ul>	
<b>Huawei Seeds for the Future 2024</b> Huawei Technologies	June. 2024 - July 2024 Kathmandu, NP
<ul style="list-style-type: none"><li>Did introductory courses on AI, 5G, Digital Power, Cloud Computing provided by Seeds Academy.</li><li>Attended AI Ethics workshop and discussion at UN House, moderated by UNESCO Kathmandu.</li></ul>	
<b>Campus Director</b> Hult Prize Foundation	Oct. 2023 – June 2024 Kathmandu, NP
<ul style="list-style-type: none"><li>Inaugural campus director of Hult Prize at Amrit Science Campus, appointed by the Hult Prize Foundation.</li><li>Led a team of 18 organizing committee members for Hult Prize OnCampus program.</li></ul>	
<b>Microsoft Learn Student Ambassador   Level Beta</b> Microsoft	Aug. 2023 - Present Kathmandu, NP
<ul style="list-style-type: none"><li>Organizing workshops and events in the tech community with resources from Microsoft.</li></ul>	
<b>Technical Consultant (Web Development)</b> Gadgetbyte Nepal	Aug. 2023 – Sep. 2023 Kathmandu, NP
<ul style="list-style-type: none"><li>Troubleshooted REST API that linked affiliate marketing products from Daraz</li><li>Fixed the Google API configuration and rewrote code in Python using the Google Sheets API</li></ul>	
<b>Executive Member</b> OSAC – Open Source ASCOL Circle	Mar. 2023 – Jun 2024 Kathmandu, NP
<ul style="list-style-type: none"><li>Planned club activities and organized events and technical workshops in Amrit Science Campus.</li></ul>	

## Founder

### SL7 Tech

Oct. 2015 – Present  
Kathmandu, NP

- More than 9000 subscribers and 4.5 million views on YouTube.
- Upload tech & programming tutorials, gadget reviews, gaming videos.

## PROJECTS

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### CleanCam | DeerHack 2023 Overall Winner | Flask, React JS, PostgreSQL, OpenCV, YOLO | [Link](#)

- Fine-tuned YOLOv8 model, combined with a custom algorithm for AI based detection of littering through CCTV footage.
- Developed a full-stack web application using Flask serving a REST API with React as the frontend.

### Lumi - AI Chatbot | LSPP Best Project Winner | React, Flask, Langchain, ChromaDB, OpenAI, Azure | [Link](#)

- Developed a chatbot to give information about undergraduate level courses and colleges in Nepal.
- Implemented RAG using ChromaDB and a customized metadata matching algorithm, used GPT-4o-mini model.
- Project was a part of Leapfrog Student Partnership Program, done under the mentorship of engineers at Leapfrog.

### Nepali Document and Record Management System | PyTesseract, OpenCV, PyTorch, Streamlit | [Link](#)

- An OCR system for digitizing Nepali documents and a document classification model.
- Fine Tuned Tesseract 5 on custom data, and trained Bi-LSTM classifier from scratch.
- Project was a part of Fusmeachines AI Fellowship Program, done under the mentorship of engineers at Fusemachines.

### NEB Exam Preparation Apps | 10,000 Downloads in Google Play | HTML, SCSS, JavaScript, Apache Cordova | [Link](#)

- Published two android apps, 'Heritage of Words Summary' and 'Sabaiko Nepali: NEB Summary' in Google Play Store
- Apps contained easy to read summaries and question answers important for Grade 12 exam preparation.

### Federal Election 2079 Web App | React JS, Django, BeautifulSoup, PostgreSQL, Heroku | [Link](#)

- Developed a free to use live updating API with vote count data of Kathmandu and popular constituencies.
- Showed implementation through vote tracking web app in React.

*\*More projects on my [GitHub profile](#)*

## SKILLS

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**Programming Languages & Tools:** Python, C/C++, SQL, JavaScript, HTML/CSS, Java, Docker, Azure, Git & GitHub

**Domains:** Machine Learning, Computer Vision, LLMs, RAG, Web Scraping, Web Development, Version Control

**Soft Skills:** Leadership, Organization, Problem Solving, Creativity, Communication, Teamwork, Adaptability, Event Management

## ACHIEVEMENTS

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### 'DeerHack 2023' Overall Winner

May 2023

- Team lead of 'Contrivers' at DeerHack 2023, a nationwide hackathon at Deerwalk Institute of Technology.
- Developed 'CleanCam', a system for AI enabled live detection of littering through CCTV footage.

### 'CodeBrisk' Finalist

Feb 2023

- Team lead of Amrit Science Campus at intercollege hackathon Codebrisk organized by Herald College.
- Developed a ride sharing prototype and hotel recommender system.

## CERTIFICATIONS

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**Microdegree in Artificial Intelligence**(Fusmachines), **Machine Learning Specialization**(Coursera), **React Basics** (Coursera), **Version Control** (Coursera), **Introduction to Databases** (Coursera), **Django Web Framework**(Coursera)

## CONFERENCES

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### Hult Prize Global Summit 2024

Chulalongkorn University, Bangkok, Thailand

June 2024

- Represented Amrit Science Campus, attended workshops, watched pitches of emerging startups and collaborated with global campus directors.

### GitHub Field Day 2024

Bhaktapur, Nepal

Nov 2024

- Selected as one of 50 student leaders to attend the event out of 300+ applicants from all over Nepal.
- Had group discussions with other student leaders on issues affecting student led tech communities in Nepal.