

SHUVAM KHANAL

DevOps / AI-Oriented IT Professional

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PROFILE

A Computer Science student with hands-on experience in DevOps fundamentals, AI/ML, and technical operations. Exposure to Linux systems, cloud basics, and applied AI research workflows. Proven ability to manage communities, coordinate events, and bridge technical work with organizational needs.

CORE TECHNICAL SKILLS

- **DevOps & Cloud:** Linux (system usage, basic admin), Git & GitHub, Docker (fundamentals), AWS (EC2, basic cloud concepts).
- **AI / Machine Learning:** Python, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, PyTorch/TensorFlow, Jupyter Notebook, Hugging Face, LangChain, Ollama (local LLM deployment).
- **Supporting Skills:** Basic scripting & automation, Debugging, troubleshooting & Documentation

EXPERIENCE

Community Manager IIMS E.C.H.O Club

- Managed student-led tech, e-sports, and innovation community activities and coordinated events, handled communication, and bridged technical/non-technical teams.

Business Development Intern IIMS College

- Assisted in outreach and internal coordination for institutional initiatives and gained exposure to aligning technical projects with business goals.

IT-Tech Support Volunteer IIMS College

- Assisted in setting up computer labs and provided technical support and troubleshooting basic network issues.

PROJECTS

Fun Book – Gamified Learning App (Social Innovation Project) *Role: Project Manager*

- Led a team to design and develop a prototype educational app to reduce screen addiction and improve learning quality for children, managed timelines, and presented the prototype publicly.

AI / ML Projects (Public – GitHub)

- **Earthquake-Driven Tsunami Risk Prediction:** Designed ML pipelines using Pandas and Scikit-learn; performed data cleaning/feature engineering and evaluated multiple models.
- **Smart Grid Optimization (Genetic Algorithms):** Implemented genetic algorithm-based optimization for energy management; explored parallel computation for scalability.

JavaFX-Based Nepal Tourism Management System

- Developed a full desktop application using JavaFX and Java with modules for tourism services.

HACKATHON EXPERIENCE

CodeFest 2025 – Provincial Phase (Kathmandu) *Project: E-SAHARA (Crowdfunding Platform)*

- Built a "GoFundMe-style" prototype tailored for Nepal, focusing on victim verification and transparency while gaining hands-on experience designing tech solutions, considering feasibility, ethics, and governance.

EDUCATION

IIMS, Kathmandu	Bachelor of Computer Science (BCS)	Sep 2023 – Present
Annupurna Secondary School, Butwal	SLC (+2) CGPA: 3.63	Aug 2021 – Jun 2022
Shree Padma Secondary School, Bhaktapur	SEE GPA: 3.9	May 2019 – Apr 2020

LANGUAGES

Nepali (Native) | English (Advanced) | Hindi (Intermediate) | Maithili (Basic) | Bhojpuri (Basic)