

SANJEEV KHATIWADA

📍 Kathmandu, Nepal

✉ Skhatiwada558@gmail.com

📞 +977-9861495560

EDUCATION

Nepal Engineering College (NEC) | Bachelor of Computer Engineering

Sep 2019 – Aug 2024

- GPA: 3.65/4.00

The New Summit Secondary School | High School (Science)

Jul 2016 – Aug 2018

- GPA: 3.25/4.00

SKILLS

Languages: Python (Proficient), C++, C, SQL, and R

Libraries/Tools: NumPy, Pandas, PyTorch, TensorFlow, Matplotlib, Scikit-Learn, Git, LaTeX, Django, Excel

WORK EXPERIENCE

Things Cyber Pvt. Ltd | Cybersecurity Intern

Dec 2024 – May 2025

- Played pivotal roles in vulnerability assessments and documentation, and in strengthening authentication mechanisms, transaction logic and audit trails of core banking software

PROJECT EXPERIENCE

NepBiz E-Commerce Platform | Python, Django, Scikit-Learn, Pandas, NumPy

2024

- Designed a memory-based k-NN collaborative filtering system within a full-stack e-commerce platform; benchmarked against popularity baselines, improving long-tail product recommendation precision by 20%.
- Integrated secure payment gateways (eSewa) and robust user authentication protocols using Django's built-in security features.

Fleet Management System (FMS) | Django, Flutter, REST API

2023

- Architected a comprehensive waste management ecosystem utilizing Collection Point Aggregation and geospatial queries to optimize routes, while integrating real-time notifications and a Waste-for-Value module to incentivize segregation.

Self-Driving Agent Simulation | Godot Game Engine, Python

2021

- Developed a custom simulation environment to model autonomous agent behaviors in dynamic driving scenarios.
- Implemented an iterative training module for collision avoidance, enabling agents to refine trajectories through repetitive trials.

HONORS & AWARDS

Winner, Research Proposal Competition | IEEE Pulchowk Campus & CAIR Nepal

Feb 2025

- Co-authored the winning proposal "Analyzing Consumer Behavior in the Digital Age," selected via peer review.

Academic Merit Scholarship | Nepal Engineering College

2019 – 2024

- Received a 50% tuition waiver for four consecutive years, totaling approximately \$2,500 USD for securing the highest cumulative GPA in the department.

Programming Award | Nepal Engineering College

Jan 2021

- Received award for top performance in college-level C++ and C programming competition.

ONGOING RESEARCH

Multimodal Out-of-Context Misinformation Detection | Nepali Political News

Present

- Investigate multimodal misinformation detection by fusing Vision Transformers (ViT) and TCNs to identify out-of-context fakes in Nepali media, while curating a novel annotated dataset to benchmark hybrid architectures against unimodal baselines (mBERT, ResNet).

LEADERSHIP & COMMUNITY ENGAGEMENT

NAAMII Open House Series

Aug 2025 – Present

- Engage in monthly sessions to share novel ideas and collaborate with the local research community, gaining insights into AI developments both within Nepal and globally.

Helambu Education & Livelihood Partnership (HELP Nepal) | CS Mentor & Educator

July 2025 – Present

- Mentor over 90 students in Computer Science and Mathematics, empowering them with technical proficiency and fostering a lasting interest in STEM careers.

Research Writing Workshop | CAIR Nepal

Feb 2025

- Completed an intensive workshop focused on academic research writing, literature review, and proposal drafting.

Center for Applied Research and Rural Development (CARRD) | Executive Member

May 2020 – Aug 2024

- Orchestrated research writing workshops and technical debate competitions, managing end-to-end logistics for student-led academic initiatives.