

# SANJEEV KHATIWADA

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## 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.