

Nirajan Paudel

 Nirajan17 |  Website |  nirajan.paudel@colorado.edu |  +1 (720) 595 8207

EDUCATION

<b>University of Colorado Boulder</b> Master's of Science in Computer Science <b>Relevant Courses:</b> Data Center Scale Computing, Object Oriented Analysis & Design	2025–2027
<b>Institute of Engineering, Tribhuwan University</b> Bachelor of Engineering–Electronics, Communication & Information Engineering	2020–2024

WORK EXPERIENCE

<b>Machine Learning Intern</b> PalmMind Technology	March 2025 – May 2025
<ul style="list-style-type: none"><li>Built scalable RAG chatbots for EV dealers and insurance clients using OpenAI models, LangChain, and LangGraph, leveraging orchestrator-worker workflows, routing, and parallelization for efficiency.</li><li>Enhanced data retrieval and system performance by implementing web scraping, OCR (Tesseract), and Redis-based caching for faster, context-aware conversational AI.</li></ul>	
<b>Teaching Assistant</b> Pashchimanchal Campus, Tribhuwan University	Sep 2024 – Feb 2025
<ul style="list-style-type: none"><li>Taught C programming and Information Systems (theoretical concepts on cloud computing, distributed systems, neural networks, data mining).</li><li>Designed lab activities, guided semester-end projects, and provided detailed feedback to enhance students' practical programming and problem-solving skills.</li></ul>	

PROJECTS

</

PUBLICATIONS

Subedi, N. et al. (Jan. 2024a). “Drowsiness and Crash Detection Mobile Application for Vehicle’s Safety”. In: <i>Journal of IoT in Social, Mobile, Analytics, and Cloud</i> 6.1, pp. 54–66. URL: <a href="https://doi.org/10.36548/jismac.2024.1.005">https://doi.org/10.36548/jismac.2024.1.005</a> .
– (Jan. 2024b). “Nepali Image Captioning: Generating Coherent Paragraph-Length Descriptions Using Transformer”. In: <i>Journal of Soft Computing Paradigm</i> 6.1, pp. 70–84. URL: <a href="https://doi.org/10.36548/jscp.2024.1.006">https://doi.org/10.36548/jscp.2024.1.006</a> .

SKILLS

<b>Languages</b>	C, C++, Python, SQL
<b>AI/ML</b>	Pandas, Numpy, Seaborn, TensorFlow, PyTorch, Scikit-learn, Keras, LangChain, LangGraph, CNNs, RNNs, Transformers, Linear/Logistic Regression, Clustering (K-means, DBSCAN)
<b>Tools</b>	Jupyter Notebook, Google Colab, Kaggle, Git, Selenium, pytesseract
<b>Soft Skills</b>	Communication, Team Collaboration, Time Management