

Aakriti Poudel

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Dhulikhel, Nepal

EDUCATION	<p>Kathmandu University, Dhulikhel, Nepal <i>Bachelor of Engineering</i>, Computer Engineering, February 2021 - present GPA: 3.9</p> <ul style="list-style-type: none">• Relevant Coursework<ul style="list-style-type: none">– Data Structures & Algorithms, Linear Algebra, Probability & Statistics, AI, Data Mining
PROJECTS	<p>MediQuery: Healthcare RAG System Built a retrieval-augmented generation (RAG) pipeline using Llama2 and LangChain to answer medical queries from WHO datasets. Fine-tuned embeddings with sentence-transformers and deployed a Flask API for inference.</p> <p>PatchIt: Pothole Management System Trained a YOLOv8 model (89% mAP) to detect potholes from live ESP32-CAM feeds, integrated with a React/Node.js dashboard for municipal authorities.</p> <p>Sign AI Developed a YOLOv5 model to classify 25+ ASL gestures in real-time using React for the front-end and Python for ML inference. Award: Education Category Winner, KU HackFest 2023 – Nepal’s largest in-person hackathon.</p> <p>DigiTour Designed a AR application in Unity to showcase Panauti’s historical sites, combining Cloud Anchors (Google ARCore) and marker-based triggers.</p>
COMPUTER SKILLS	<p>AI/ML: TensorFlow, PyTorch, Scikit-learn, YOLO, Data Wrangling, Predictive Modeling, LLM (RAG, Fine-tuning) Web/Mobile Development: React, Node.js, Flutter, REST APIs Languages: JavaScript, Python, C, C++, Java, Dart, SQL, Tools and Technologies: Git, VS Code, Unity, MongoDB, Firebase Math Foundations: Linear Algebra, Calculus, Probability & Statistics</p>
Leadership & Involvement	<ul style="list-style-type: none">• Microsoft Learn Student Ambassador <i>2023 - Present</i><ul style="list-style-type: none">– Actively engaged in promoting technical learning and organizing workshops for peers.• Organizing Committee, KU HackFest 2022 and 2024 <i>2022 and 2024</i><ul style="list-style-type: none">– Contributed to the planning and execution of Nepal’s largest in-person hackathon.
INTERESTS	<p>Artificial Intelligence and Machine Learning Data Science Web and App Development Human-Robot Interaction Augmented Reality Development</p>