

# Priti Paudel Jaisi

Gongabu, Kathmandu

✉ [preetipaudel456@gmail.com](mailto:preetipaudel456@gmail.com) [in](#) [Priti Paudel Jaisi](#) [G](#) [Pritipaudel](#)

## EDUCATION

### Bachelor in Computer Science and Information Technology

Padmakanya Multiple Campus, Tribhuvan University [↗](#)

November 2022 - December 2026

Bagbazaar, Nepal

### High School

Capital College Research Center

October 2020 - May 2022

Kathmandu, Nepal

## PROJECTS

### SheSync [↗](#)

- Developed an AI-powered PCOS chatbot using the MedGemma model to provide reliable, context-aware health guidance and symptom-related support.
- Implemented a personalized diet recommendation system using Retrieval-Augmented Generation (RAG), tailoring suggestions based on user symptoms, preferences, and health data.
- Designed personalized user experiences by adapting responses and recommendations dynamically from individual health inputs, improving relevance and user engagement.

### 3D pbr map generation for realistic 3D modeling [↗](#)

- Developed an AI-driven pipeline to generate PBR (Physically Based Rendering) texture maps such as depth, normal, roughness, and ambient occlusion from a single 2D image, improving realism in 3D modeling workflows.
- Implemented a hybrid Vision Transformer architecture using DINOv2 as the encoder, enabling robust feature extraction for accurate material and surface property prediction.
- Designed and trained multiple map-generation branches using RAFT, DepthNormalDPT5, and custom feature-fusion modules to predict high-resolution PBR maps in a single-step inference process.

## RELEVANT TECHNICAL SKILLS

**Programming:** Python, C, C++, Javascript, Django

**ML Frameworks:** Numpy, Pandas, Matplotlib

**Databases:** MYSQL, PostgreSQL

## INVOLVEMENTS

### Fusemachines [↗](#)

AI fellow

April 2025 - December 2025

Kathmandu, Nepal

- One of the selected fellow to be awarded with six-months fellowship in the 2025 cohort.
- Worked on AI-based generation of 3D PBR texture maps from 2D images for realistic rendering applications.

### Women Leaders in Technology [↗](#)

Fellow

October 2024 - April 2025

Kathmandu, Nepal

- One of 15 selected female students to be awarded the six-months fellowship in the 2024 cohort
- Two-week workshop on Node Js, MongoDB, and soft skills, followed by a hackathon project

### Microsoft Learn Student Ambassador [↗](#)

Beta MLSA

October 2024 - present

Kathmandu, Nepal

- Selected as a Beta MLSA, showcasing leadership potential and technical expertise.
- Organized interactive workshops on GitHub, helping students in version control and collaborative coding.

## REFERENCES

### Kanchan Poudel

Research assistant, Nepal Applied Mathematics and Informatics Institute for research (NAAMII), Nepal

✉ [kanchan.poudel@naamii.org.np](mailto:kanchan.poudel@naamii.org.np)