

SMRITI ADHIKARI

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EDUCATION

Arniko Higher Secondary School

Biratnagar, Nepal

+2 Science (Biology with Extra Mathematics)

December 2021

- Pursued a science stream with a focus on Biology and Extra Mathematics, emphasizing analytical thinking, academic discipline, and a strong STEM foundation.

Khwopa College of Engineering

Libali, Bhaktapur

BE in Computer Engineering

April 2026

- Maintained strong academic performance while contributing to AI research, hackathons, and leadership activities.

EXPERIENCE

Tech Manthan

Bhaktapur, Nepal

UI/UX Designer Intern

May 2025 – August 2025

- Designed user-centered web and mobile interfaces by creating wireframes, prototypes, and responsive layouts to enhance usability and visual consistency.
- Collaborated with developers and stakeholders to refine user flows, incorporate user feedback, and improve overall user experience across digital platforms.

PROJECTS

HRMS (Human Resource Management System) – UI/UX Design

Figma · UI/UX · Responsive Design

- Designed a user-friendly HRMS interface to streamline employee management and HR-related workflows.
- Created user flows, wireframes, high-fidelity mockups, and interactive prototypes in Figma.

Company Website – UI/UX Design

Figma · UI/UX

- Designed the UI/UX for Tech Manthan's official website with a focus on usability, responsiveness, and visual consistency.
- Collaborated with developers and project leads to refine the design and support implementation of the official website.

Nepali Summarization Benchmark – Multi-Model Fine-tuning

PyTorch · QLoRA · HuggingFace (In Progress)

- Fine-tuning Qwen, LLaMA, Mistral, and Gemma on Nepali abstractive summarization data using QLoRA.
- Designing unified ROUGE evaluation harness to compare models on low-resource Devanagari summarization tasks.

Nepali GPT-2 – Pretraining to Instruction Finetuning

PyTorch · HuggingFace · SentencePiece · FastAPI

- Pretrained a 124M-parameter GPT-2 on 16GB Nepali corpus; finetuned for abstractive summarization.
- Built FastAPI inference server comparing 9 tokenizer-model configs.

RESEARCH

Subword Tokenization Optimization for Nepali LanguageMathura, India

International Conf. on Modern Mathematical Methods and HPC in Science & Technology

- Engineered SentencePiece tokenizers (BPE, Unigram, WordPiece) at 3 vocabulary sizes to benchmark 9 GPT-2 configurations.
- Evaluated perplexity and ROUGE scores across 9 tokenizer-model pairs to identify optimal low-resource Nepali strategy.

Towards Nepali-language LLMs: GPT training using Nepali BPE tokenizerBhaktapur, Nepal

National Conference on Computer, Electrical, Electronics & Communication Engineering

- Pretrained a 124M-parameter GPT-2 on 10.75GB Nepali corpus using FlashAttention.
- Applied GPT-3-style LR scheduling and batch scaling to optimize training across 10.75GB of scraped news data.

HACKATHONS AND COMPETITIONS

X-Hack 3.0Purwanchal Engineering Campus, Dharan

Best AI Implementation AwardJanuary 2025

- Developed an AI-powered EdTech platform focused on bridging the education gap in remote regions by offering structured courses, automated examination modules, and intelligent content summarization tools.
- Won the Best AI Implementation Award at X-Hack 3.0 for integrating advanced NLP and video processing to create effective PDF and video summarizers, enhancing accessibility and learning efficiency for underserved communities.

Software CompetitionKhwopa College of Engineering, Bhaktapur

Best UI/UX AwardDecember 2024

- Developed an Event Management System to streamline hall bookings and event scheduling, featuring real-time availability, automated user notifications, intuitive design, and an efficient admin panel.
- Won the Best UI/UX Award for delivering an intuitive and aesthetically appealing interface that enhanced usability and overall user experience for both administrators and users.

LEADERSHIP EXPERIENCE

Hult Prize at Khwopa College of EngineeringLibali, Bhaktapur

TreasurerAugust 2024 – Present

- Managed financial planning, budgeting, and allocation of resources to ensure smooth and efficient execution of the event.
- Handled sponsorship coordination and maintained transparent financial reporting, supporting the event's overall success and credibility.

SKILLS & INTERESTS

Skills: Programming: Python, C, C++, HTML, CSS, JavaScript | Framework: Git, Figma | Design: Canva

Interests: UI/UX designing, Event Organization, Painting