

KRISTINA GHIMIRE

Bhaktapur, Nepal • 9840780361 • kristina.ghimire.ai@gmail.com

in [LinkedIn](#) • [Github](#) • [Website](#)

Machine Learning enthusiast currently learning and exploring NLP and Computer Vision fields. Committed to continuous learning and embracing challenges in the tech world.

EDUCATION

- **IOE, Thapathali Campus** *May 2021 - May 2025*
Bachelor of Engineering, Computer Engineering
- **Nobel Academy** *Jul 2017 - Jun 2019*
High School

TECHNICAL SKILLS

- **Languages:** Python
- **Libraries:** NumPy, Pandas, OpenCV, Matplotlib, spaCy, Scikit-learn
- **Frameworks/Tools:** PyTorch, Django, FastAPI, LangChain, LangGraph, AWS Lambda

EXPERIENCE

- **Associate Machine Learning Engineer** / *Ekbana* *Apr 2025 - Present*
 - Built backend APIs for AI applications and developed agentic workflows using tools, Model Context Protocol (MCP), and related orchestration frameworks.
 - Contributed to system design, feature planning, and implementation for both in-house and client projects.
 - Fine-tuned open-source language models for real-world applications and deployment.
 - Participated in AI research projects focused on LLMs, multi-agent systems, and model optimization.
- **Machine Learning Trainee** / *Ekbana* *Dec 2024 - Mar 2025*
 - Built a strong foundation in machine learning and AI through hands-on experience with real-world projects.
 - Developed machine learning models and backend APIs for production-oriented applications.
 - Designed and implemented multi-agent systems and machine learning solutions.
- **Poster Presenter** / *AAAI / Singapore* *Jan 2026*
 - Presented the poster, “Learning Collaborative Reasoning Strategies Through Trust-Weighted Multi-Agent Consensus,” at the WMAC Bridge Program on Advancing LLM-based Multi-Agent Collaboration.
- **Research Training 2025** / *NRCC* *May 2025 - Aug 2025*
 - Completed research training in scientific research methodologies and experimental design.
 - Conducted research on improving the efficiency and reducing the size of Small Language Models (SLMs).
- **Fusemachine AI Fellowship 2024** / *Fusemachine* *Apr 2024*
 - Built strong foundation in AI and gained hands-on experience through projects
- **Data Fellowship 2023** / *Code For Nepal* *Dec 2022*
 - Learned from Datacamp through this fellowship

PROJECTS

- **NAME** | **AI Safety CV** / *NLP* / *Major Project* / *Bachelor's Degree*
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- **Chitran** | **Festive Poster Generator CV** / *NLP* / *Major Project* / *Bachelor's Degree*
 - Developed an end-to-end system that generates Nepali festive posters from English prompts using fine-tuned M2M-100 and Stable Diffusion v1.5.
 - Collected, cleaned, and processed bilingual text and image datasets for model training and evaluation.
 - Fine-tuned translation and image generation models to produce culturally relevant Nepali wishes and festive visuals.
 - Implemented custom text rendering and overlay techniques to seamlessly integrate translated wishes into generated posters.
 - Automated the complete poster generation pipeline from user prompt to final image.
- **Face Segmentation CV** / *Self Project*
 - Developed a face segmentation model using YOLOv8 to identify facial components including eyes, ears, nose, mouth, eyebrows, face, and neck.
 - Trained and evaluated an instance segmentation model for accurate facial part localization.
 - Designed the system as a foundation for facial similarity analysis based on individual facial components.
- **MWP** | **Math Word Problem Solver NLP**
 - Developed a system to solve mathematical word problems from both text and image inputs.
 - Fine-tuned a BART model to generate mathematical equations from natural language problem statements.
 - Integrated OCR to extract math word problems from uploaded images before equation generation.
 - Implemented a recommendation module to suggest similar math word problems for additional practice.
- **ResuMate** | **Automated Resume Screening System NLP** / *Minor Project* / *Bachelor's Degree*

- Developed an automated resume screening system that ranks resumes against job descriptions.
- Extracted semantic features from resumes and job descriptions using machine learning models.
- Leveraged pre-trained FastText embeddings to generate vector representations of textual data.
- Ranked candidates using a weighted semantic similarity scoring mechanism.

RESEARCH PAPERS

- **Learning Collaborative Reasoning Strategies Through Trust-Weighted Multi-Agent Consensus** / *IEEE / Link* 2026
- **SOMD 2025: Fine-tuning ModernBERT for In- and Out-of-Distribution NER and Relation Extraction of Software Mentions in Scientific Texts** / *ACL / Link* 2026

CERTIFICATES

- **Deep Learning Specialization (DeepLearning.AI)** / *Coursera* Completed January 2025
- **Mathematics for Machine Learning and Data Science Specialization (DeepLearning.AI)** / *Coursera* Completed November 2023
- **Machine Learning Specialization (DeepLearning.AI)** / *Coursera* Completed July 2023
- **Become a Python Master Course** / *Programiz* Completed February 2023