**Sandesh Shrestha**

Kathmandu • sandeshrestha115@gmail • 9741685611 • [LinkedIn](https://www.linkedin.com/in/sandesh-shrestha-/) • [Github](https://github.com/Sundess)

**Professional Summary (Machine Learning Engineer)**

Adaptable Machine Learning Aspirant with a strong foundation in computer science and AI specialization. Experienced in Python, Machine Learning, and agents. Eager to contribute enthusiasm, adaptability, and a fresh perspective to a dynamic team.

**Education**

**Taylors University** Dec, 2025

Bachelors of computer Science (AI Specialization)

**AI Fellowship, Fusemachine** Nov, 2025  
Microdegree in Artificial Intelligence

**Experience**

**Fusemachine Nepal** Kathmandu

**Associate Machine Learning**  May 2025– Aug 2025

* Executed the full end-to-end development lifecycle for an in-house project focused on AI-generated content (AIGC) detection, fine-tuning a large language model using tools such as Transformers, PyTorch, and PEBFT, from initial research and model selection to experimentation and final documentation.
* Captured approximately 85% of the cases amongst 100k data points and optimized the system, decreasing latency by 30-35%.

**Projects**

**Agentic RAG System**  Aug, 2025

* Developed an Advanced RAG System for document-based question answering, leveraging LangChain for tool creation (e.g., booking callbacks), Pinecone for vector storage, and Google Gemini 1.5 Pro as the generation model.
* Implemented optimization techniques, including re-ranking, hybrid search, and prompt engineering, to enhance system efficiency and accuracy in retrieving and generating responses.

**Realtime Chat App**  May, 2025

* Developed a full-stack web application using Django and Streamlit to perform sentiment analysis and text summarization on product reviews, providing users with AI-driven insights and interactive chatbot with product.

**AI-Powered Dashboard**  Dec, 2024

* Developed a full-stack web application using Django and Streamlit to perform sentiment analysis and text summarization on product reviews, providing users with AI-driven insights and interactive chatbot with product.

**Certifications/Courses**

[**Version Control, Meta**](https://www.coursera.org/account/accomplishments/certificate/VPUGZC2ELD27)

* Skills: Git, Github, Git best practices, Git conflicts

[**DevOps Workshop, IIMS College Mar, 2025**](https://github.com/Sundess/Certificates-/blob/main/Trainning-Devops.pdf)

* Skills: Docker, Linux, CI/CD Pipelines, Github Actions, Nginx

**Research Involvements**

[**Nepali Transformers@NLU of Devanagari Script Languages 2025: Detection of Language, Hate Speech, and Targets.**](https://aclanthology.org/2025.chipsal-1.36.pdf) **| CHiPSAL 2025, Abu Dhabi –**

* Co-author, Fine-tuned transformer models for the detection of language, hate speech, and targets, contributing to the research published in the Proceedings of CHiPSAL 2025.