

TANVI KUMARI

AI/ML Engineer | Generative AI | LLM | RAG | Deep Learning | Computer Vision

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CAREER SUMMARY

Aspiring AI/ML Engineer with a Bachelor's degree in Biological Science and a 9-month intensive certification in Artificial Intelligence and Machine Learning from Masai School. Strong foundation in Machine Learning, Deep Learning, Generative AI, and Large Language Models (LLMs), with hands-on project experience in Retrieval-Augmented Generation (RAG), Neural Style Transfer, Transformers, GANs, and Agentic AI. Skilled in data analysis and building and deploying end-to-end ML solutions using Python, NumPy, Pandas, Flask, FastAPI, Streamlit, and AWS (EC2, S3), with working knowledge of CI/CD pipelines. Eager to apply strong analytical thinking and a cross-disciplinary background to solve real-world problems through AI.

TECHNICAL SKILLS

Programming	Python, SQL
Machine Learning	Supervised Learning, Unsupervised Learning, Reinforcement Learning
Data Analysis & Visualization	NumPy, Pandas, Matplotlib, Seaborn
Deep Learning	Neural Networks (ANN, CNN, RNN, LSTM), Transformers, Generated Adversarial Network (GANs), Natural Language Processing (NLP)
Generative AI / LLMs	Generative AI (GenAI), Large Language Models (LLM), OpenAI API, Retrieval-Augmented Generation (RAG), Agentic AI
Cloud & DevOps	AWS (EC2, S3), CI/CD Pipelines
Frameworks & Tools	Flask, Flask-WTF, FastAPI, Streamlit, Bootstrap, Gunicorn, Pillow
Version Control	Git, GitHub

KEY PROJECTS

SnapClass

Technologies: Python, Streamlit, dlib, face_recognition, Resemblyzer, librosa, Supabase, Segno

- Built an AI-powered classroom attendance system using facial and voice recognition (dlib, face_recognition, Resemblyzer, librosa) to automate and verify student check-ins, reducing manual attendance-taking.
- Designed role-based teacher and student dashboards in Streamlit, with session-state-driven navigation and secure login handling using Supabase and bcrypt.
- Implemented QR-code-based class join links (Segno) enabling seamless student auto-enrollment via a shareable join code.

Neural Style Transfer (NST) with AdaIN

Technologies: Python, PyTorch, Torchvision, Flask, Flask-WTF, Flask-Bootstrap, Pillow, Gunicorn

- Implemented an Adaptive Instance Normalization (AdaIN) style transfer architecture using a pretrained VGG encoder and a custom decoder network, enabling real-time, arbitrary style transfer to generate Ghibli-style filtered images.
- Trained the decoder network from scratch on content and style image datasets using a combined content-reconstruction and style (mean/std) loss with the Adam optimizer and learning-rate decay scheduling, monitored via tqdm.
- Built a Flask web application with Flask-WTF/WTForms for image upload handling and Flask-Bootstrap for the UI, allowing users to upload content and style images and adjust an alpha parameter to control stylization strength.
- Used Pillow and Torchvision transforms for image pre/post-processing and deployed the application with Gunicorn as the production WSGI server.

INTERNSHIP & TRAINING

- AI/ML Engineer Certification Program**, Masai School (2025–26) — 9-month intensive program covering Machine Learning, Deep Learning, GenAI, LLMs, and Agentic AI.

EDUCATION

- Bachelor of Science (B.Sc.), Biological Science, Sri Venkateswara College (University of Delhi) (2021–2024) — **CGPA: 7.6**
- Senior Secondary (Class XII), CBSE (2018–2019) — **86.3%**
- AI/ML Engineer Certification, Masai School (9-Month Program) — **2025–26**

CERTIFICATIONS

- AI/ML Engineer Certification — Masai School (2025–26)