

Nitesh Patel

AI/ML Engineer

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Professional Summary

AI/ML Engineer with hands-on experience in Computer Vision and Generative AI, having built end-to-end AI projects including a real-time pose-estimation application and a RAG-based AI assistant. Proficient in Python, PyTorch, OpenCV, and OpenAI APIs.

Technical Skills

Programming: Python, SQL

Machine Learning: Regression, Classification, Clustering, Feature Engineering, Model Evaluation

Deep Learning: CNN, RNN, LSTM, Transfer Learning

Generative AI: LLMs, Prompt Engineering, RAG, LangChain, OpenAI API, NLP

Computer Vision: OpenCV, Image Processing, Pose Estimation, Face Recognition

Libraries: PyTorch, TensorFlow, Scikit-Learn, NumPy, Pandas

Tools: Git, GitHub, Linux, Docker, Flask, Streamlit, Render

Projects

AI Personal Assistant

February 2026

GitHub: github.com/niteash-patel/AI-Personal-Assistant — Demo: ai-personal-assistant-1-rhz0.onrender.com

- Built an AI-powered assistant for email summarization and natural language query answering, processing one email per request with an average response time of 10 seconds
- Integrated OpenAI APIs, Prompt Engineering, NLP, and Retrieval-Augmented Generation (RAG) workflows
- Tech Stack: Python, Flask, OpenAI API, HTML, CSS

AI Real-Time Gym Coach

April 2026

GitHub: github.com/niteash-patel/AI-Realtime-GYM-Coach — Demo: ai-realtime-gym-coach-8kyi3vffcc7ymvnmevprcn.streamlit.app

- Developed a real-time fitness coach using Computer Vision and Deep Learning, supporting 5 exercise types
- Implemented real-time pose estimation, posture analysis, and automated repetition tracking
- Tech Stack: Python, OpenCV, PyTorch, Streamlit

Neural Style Transfer Application

June 2026

GitHub: github.com/niteash-patel/NST-with-AdaIN

- Built an image style transfer application using Adaptive Instance Normalization (AdaIN), processing each image in approximately 10 seconds
- Applied Deep Learning and Computer Vision techniques for artistic image generation
- Tech Stack: Python, PyTorch, Flask

Education

Bachelor of Computer Applications (BCA)

2022 – 2025

SHEAT Group of Institutions

Graduated

Certifications

- Completed coursework/training under the guidance of Saradha Khapara Ma'am