

Jay Viramgami

Aspiring AI/ML Engineer

 +91 816 091 7553 |  viramgamijay@gmail.com |  jaykings123.github.io |  Thaltej, Ahmedabad |  linkedin.com/in/jay-viramgami |  github.com/Jaykings123

Professional Summary

AI/ML engineering student at LD College of Engineering with expertise in deep learning, computer vision, and NLP. Conducted comprehensive evaluation of 10+ NLP models across 3 datasets (CNN/DailyMail, WikiSum, XSum), processing 1,800 documents and achieving best-in-class ROUGE-1 scores of 0.559. Experienced in creating automated AI workflows using n8n for intelligent chatbots, research assistants, and financial analysis systems. Skilled in integrating multiple AI services (Claude, GPT-4 Vision, RAG pipelines) and deploying cross-platform solutions. Passionate about solving real-world problems through innovative AI automation and scalable machine learning solutions.

Technical Skills

- **Programming Languages:** Python, Java, SQL
- **AI/ML Frameworks:** TensorFlow, PyTorch, Scikit-learn, Keras, OpenCV
- **Key Concepts:** Deep Learning (CNNs, Transformers, RNNs), Computer Vision (Image Classification, Object Detection, Facial Emotion Detection), NLP (Sentiment Analysis, Summarization, RAG), Model Optimization, Deployment, Vector Databases, API Integration
- **Automation & Integration:** Workflow Automation, API Development, Webhook Integration, Data Pipeline Design, Real-time Processing, Multi-platform Integration
- **Tools & Platforms:** Git, GitHub, Jupyter Notebook, MySQL, Google Cloud Platform, n8n, OpenAI, Google Gemini, Pinecone, Telegram API, Discord API, Gmail API, Google Calendar API, arXiv API

Education

LD College of Engineering, Bachelor of Engineering in Artificial Intelligence and Machine Learning

- CGPA: 7.91/10.0
- Coursework: Deep Learning, Neural Networks, Computer Vision, DBMS, Data Structures and Algorithms

Experience

Technical Intern, Suvidha Foundation

- Implemented 10+ NLP models (PRIMERA, BART, PEGASUS, T5, Longformer, Graph-based NN) for multi-document summarization
- Fine-tuned TG-MultiSum and Absformer on CNN/Daily Mail dataset with structured pipelines
- Evaluated models using ROUGE-1/2/L metrics; created benchmarking reports and visualizations
- Optimized training on GPU/TPU, maintained clean reproducible code, and collaborated via GitHub
- Contributed to AI research with measurable results, supporting the foundation's technical initiatives

Certifications and Courses

Deep Learning Specialization, Coursera - DeepLearning.AI

- Mastered CNNs, RNNs, and Transformers
 - Achieved 95%+ accuracy on benchmark dataset project
- Advanced Learning Algorithms**, Coursera - Andrew Ng
- Explored supervised and unsupervised algorithms
 - Applied hyperparameter tuning & model selection
- Artificial Intelligence with Python**, Microsoft
- Developed foundational Python skills for ML
 - Applied AI concepts in a real-world project

Projects

Facial Emotion Detection with CNN

- Achieved 71% accuracy on FER-2013 dataset with a custom CNN
- Optimized for real-time performance (<40ms latency) using TensorFlow & OpenCV
- Tools: Python, TensorFlow, Keras, OpenCV, Scikit-learn

AI Image Generation with Stable Diffusion

- Built a modern web application using Streamlit and Hugging Face's diffusers library for text-to-image generation
- Implemented real-time image generation with customizable parameters (inference steps, guidance scale)
- Added cross-platform support for CPU, CUDA (NVIDIA), and Apple Silicon (MPS) with memory optimization
- Created user-friendly interface with built-in error handling and validation features
- Tools: Python, Streamlit, PyTorch, Hugging Face Transformers, Diffusers

Personal Portfolio Website

- Showcased 5+ AI/ML projects and skills in an accessible online portfolio
- Built with responsive UI/UX using HTML, CSS, JavaScript

RAG Pipeline and Chatbot

- Built an intelligent chatbot using Retrieval-Augmented Generation (RAG) pipeline with n8n automation
- Integrated multiple AI services for enhanced question-answering capabilities and real-time responses
- Implemented automated workflow triggers and data processing for seamless user interactions

AI Research Assistant

- Developed an automated research assistant using n8n workflows to streamline information gathering
- Integrated AI services for intelligent data analysis, summarization, and research insights
- Created automated triggers for research tasks and data processing workflows

Stock Analysis Assistant with Telegram, Claude & GPT-4 Vision

- Built an automated stock analysis system integrating Telegram, Claude AI, and GPT-4 Vision
- Implemented real-time market data processing and AI-powered financial insights
- Created automated workflows for data collection, analysis, and notification delivery

Angie, Personal AI Assistant with Telegram Voice and Text

- Developed a comprehensive personal AI assistant with voice and text capabilities via Telegram
- Integrated multiple AI services for natural language processing and voice recognition
- Built automated workflows for task management, reminders, and intelligent responses