

Aafikhan Malek

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EDUCATION

B.E. in Artificial Intelligence & Machine Learning

L.D. College of Engineering, Ahmedabad — *Expected June 2026* — CGPA: 7.91

Diploma in Computer Engineering

Government Polytechnic, Jamnagar — *June 2023* — CGPA: 8.73

PROJECTS

Prompt2Animate

[Link](#)

- Built an AI tool that generates **3Blue1Brown**-style math animations from prompts.
- Integrated **Gemini 2.5 Pro API** to convert natural language to **Manim** scripts, auto-rendered and returned via **downloadable MP4**.
- **Technologies:** Python, Streamlit, Manim, Gemini 2.5 Pro API, FFmpeg

SolveMate

[Link](#)

- Developed a **multi-modal** math problem solver allowing typed or image input using **Llama OCR** and **Llama 3.3** LLM-based explanation generation.
- Reached **10K+ impressions** on LinkedIn; designed for accessibility and user-friendliness.
- **Technologies:** HTML, CSS, JavaScript, Groq API, Together.ai API

Pix2Caption

[Link](#)

- Engineered an image captioning system using **DenseNet201 + LSTM** architecture, trained on **8000+ images**.
- Developed a **Streamlit** interface for real-time caption generation with image upload and **caption download support**.
- **Technologies:** Python, TensorFlow, DenseNet201 CNN, LSTM, Streamlit

TrueVision AI

[Link](#)

- Developed a deepfake detection tool using a **Xception CNN model** trained on real and synthetic facial images.
- Achieved high classification **accuracy of 72%** through layered CNN architecture and aggressive data augmentation.
- **Technologies:** Python, Pillow, CNN, TensorFlow, Streamlit

AskMyDocs

[Link](#)

- Built a robust **RAG-based** chatbot that processes up to **10 PDFs** and answers context-rich questions with source citations using **FAISS vector** to enable fast and accurate semantic search.
- Leveraged **Llma 3.3(70B)** for fast AI responses using **LangChain RAG pipelines** with smart document chunking and API retry handling.
- **Technologies:** Python, Streamlit, LangChain, FAISS, Gemini API, HuggingFace, GROQ Llama 3.3

SKILLS

Programming Languages: Python, JavaScript, Java

Libraries/Frameworks: Flask, Scikit-Learn, TensorFlow, NLTK, Streamlit, FFmpeg, OpenCV, Pillow, Keras

Data Analysis: Pandas, NumPy, Matplotlib, Seaborn,

Tools: Postman, Docker, Git, VS Code, Cursor, Github, Copilot, Jupyter notebooks, Google Colab

GenAI & APIs: OpenAI API, Gemini API, Groq API

Languages: English, Hindi, Gujarati

Soft Skills: Organised, Adaptive Learner, Leadership Capability

CERTIFICATIONS

Supervised Machine Learning: Regression and Classification – DeepLearning.AI

Advanced Learning Algorithms – DeepLearning.AI

Unsupervised Learning, Recommenders, Reinforcement Learning – DeepLearning.AI

Introduction to Computer Vision and Image Processing – IBM

Complete Data Science, Machine Learning, DL, NLP Bootcamp – Krish Naik, KRISHAI Technologies