

AAFI KHAN MALEK

+91-7574067294 | aafimalek2032@gmail.com | linkedin.com/in/aafimalek | aafimalek.live | github.com/Aafimalek

EDUCATION

L.D. College of Engineering

Bachelor of Engineering in Artificial Intelligence & Machine Learning

- CGPA: 8.00

Ahmedabad, India

Aug 2023 - June 2026

Government Polytechnic Jamnagar

Diploma in Computer Engineering

- CGPA: 8.73

Jamnagar, India

Sept 2020 - June 2023

PROJECTS

Manimancer - AI-Powered Animation Generator | *Next.js, FastAPI, Manim, Groq, AWS S3, MongoDB* Jan 2026

- Developed a full-stack website enabling users to generate professional 2D educational animations from text prompts using AI
- Integrated Groq LLM API (Kimi K2) with custom prompt engineering to generate production-ready Manim Python code
- Built subscription system with Clerk authentication and Dodo Payments supporting Free, Basic, and Pro tiers with usage tracking in MongoDB
- Deployed on DigitalOcean App Platform with Docker containerization, AWS S3 storage, and CloudFront CDN for signed video delivery
- Achieved 720p to 4K video rendering with configurable durations (15s to 5min) and credit-based resolution access

DocChat AI - Advanced RAG Document Q&A System | *React, FastAPI, Ollama, ChromaDB, Groq* Dec 2025

- Built intelligent document analysis system supporting PDF, DOCX, DOC, CSV, and Excel files with multi-format processing
- Implemented advanced RAG pipeline with Ollama embeddings (nomic-embed-text) and ChromaDB vector storage for semantic search
- Designed multi-vector retrieval system with text chunking (2000 chars, 400 overlap) and LLM-based table summarization
- Created real-time streaming responses using Server-Sent Events with context-aware chunking and rate limit handling
- Achieved sub-3-second query response times with persistent chat history using SQLite and ChromaDB indexing

QueryCSV - Privacy-First Data Analysis Tool | *Next.js, TypeScript, Pyodide, FastAPI, LangChain* Nov 2025

- Created browser-based CSV analysis tool using Pyodide (WebAssembly) for client-side Python execution with zero data transmission
- Integrated LangChain with Groq (Kimi K2 model) to generate executable pandas/matplotlib code from natural language queries
- Implemented IndexedDB for persistent file storage and LocalStorage for session management across page refreshes
- Enabled real-time data visualization with matplotlib/seaborn charts rendered as Base64 PNG images inline in chat
- Designed privacy-first architecture where only column schemas (not data rows) are sent to AI for context

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Java

GenAI & APIs: Langchain, LangGraph, MCP, OpenAI API, Gemini API, Groq API, Together.AI API

Libraries/Frameworks: FastAPI, Flask, Scikit-Learn, TensorFlow, PyTorch, Streamlit, OpenCV, Pillow, Keras

Data Analysis: Pandas, NumPy, Matplotlib, Seaborn

Tools: Postman, Docker, Git, VS Code, Cursor, GitHub, Copilot, Jupyter Notebooks, Google Colab

Deployment: AWS, Digital Ocean, Render, Vercel

CERTIFICATIONS

Machine Learning Specialization - DeepLearning.AI (Supervised ML, Advanced Algorithms, Unsupervised Learning)

Introduction to Computer Vision and Image Processing - IBM

Complete Data Science, ML, DL, NLP Bootcamp - KRISHAI Technologies (Krish Naik)

Complete Generative AI Course with LangChain & Hugging Face - KRISHAI Technologies (Krish Naik)