ADEEL IQBAL

AI/ML Engineer | Data Scientist

✉ adeelmemon096@yahoo.com | 📞 +92 332 3953852 / +92 314 7116890 | 📍 Karachi, Pakistan

🔗 **GitHub** | **LinkedIn** | **Portfolio**

CAREER OBJECTIVE

AI/ML Engineer passionate about developing smart and agentic AI systems using ML, DL, NLP, CV, and GenAI to solve meaningful challenges.

EXPERIENCE

AI/ML Intern
SaylaniTech   **Nov 2025 - Present**

EDUCATION

Bachelor of Electrical Engineering
Quaid-e-Awam University of Engineering, Science & Technology   **Jan 2014 - Feb 2018**

Intermediate (Pre-Engineering)
C&S Degree College   **May 2011 - Aug 2013**

CERTIFICATIONS

Artificial Intelligence & Data Science
Saylani Mass I.T. Training   **Feb 2025 - Dec 2025**

Agentic AI
Saylani Mass I.T. Training   **Sept 2025 - Present**

SKILLS

- **Programming Languages:** Python
- **Libraries & Frameworks:** Pandas, NumPy, SciPy, Matplotlib, Seaborn, Scikit-learn, FastAPI, Flask, Streamlit, Gradio
- **Machine Learning & AI:** Machine Learning (ML), Deep Learning (DL), Natural Language Processing (NLP), Computer Vision, TensorFlow, Keras, PyTorch, OpenCV, SpaCy
- **GenAI & Automation:** Transformers, LLMs, n8n, LangChain, RAG Pipelines, Vector Databases, Model Context Protocol (MCP), Generative AI
- **Databases & ORMs:** PostgreSQL, SQLite, SQLAlchemy, Supabase, Pinecone
- **Tools & Platforms:** Git, GitHub, AWS, Docker, Hugging Face, Vercel, Power BI, Kaggle, Jupyter Notebook, Google Colab, VS Code, Cursor, Antigravity

PROJECTS

AI Voice Agent - Retail Automation | Link

- Built proof-of-concept voice AI agent for Outfitters Pakistan using ElevenLabs and OpenAI handling customer calls with natural language understanding, real-time inventory lookup, and automated lead capture.
- Developed n8n workflow automation integrating voice interface with Google Sheets database enabling 24/7 customer support for product queries, pricing, sizes, and policy information.
- Implemented smart lead collection system with contact validation, confirmation loops, and automatic database storage reducing support costs by 70-80% compared to traditional call centers.

Self-Driving Vision Core | Link

- Built real-time autonomous driving perception system using YOLOv8n-seg for road segmentation and YOLO11n for vehicle detection achieving 47.8% mAP@50 with 15ms inference time.
- Developed dual-model pipeline processing images, videos, and live camera feeds with CUDA-accelerated GPU inference and blue mask overlay visualization.
- Deployed production-ready FastAPI backend with REST endpoints supporting multiple input modes and interactive Swagger documentation for easy integration.

SMIT Agentic Administration | Link

- Built enterprise multi-agent system using LangGraph and OpenAI GPT-4o-mini for Saylani Mass IT Training enabling natural language database queries, automated bulk communications, and real-time student management.
- Developed full-stack platform with FastAPI WebSocket backend integrating Gmail API, Twilio WhatsApp API, PostgreSQL database, and voice-enabled interface with intelligent database manipulation for course transfers and seat management.
- Deployed autonomous administration system processing 100+ parallel emails in 15 seconds with dynamic SQL generation, automated batch/slot updates, schema introspection, and hands-free query execution for educational institutions.

Multi-Document RAG Chatbot | Link

- Built intelligent RAG chatbot using LangChain and OpenAI GPT-4 enabling simultaneous querying across 20+ documents (PDF, DOCX, TXT) with conversational memory and context-aware responses.
- Implemented document processing pipeline with text chunking, OpenAI embeddings (text-embedding-ada-002), and persistent ChromaDB vector storage ensuring crash-proof session isolation.
- Developed Chainlit web interface with real-time progress tracking, multi-format document ingestion, and smart retrieval achieving accurate context-based question answering for research and analysis.

AI CV Screening Agent | Link

- Automated recruitment workflow using n8n and OpenAI GPT-4o-mini processing job applications 24/7 with AI-powered candidate scoring (0-10) and experience validation.
- Built end-to-end pipeline integrating Gmail API, Google Drive API, and Google Sheets with automated PDF text extraction and intelligent job matching.
- Designed multi-position support system providing detailed candidate reasoning, requirement checking, and organized data management for HR teams.

LINKS

- **Portfolio:** portfolio-adeeliqbal.vercel.app
- **GitHub:** github.com/adeel-iqbal
- **LinkedIn:** linkedin.com/in/adeeliqbalmemon