

# AMIR AIJAZ

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Portfolio: <https://portfolio-amiraijaz.vercel.app/>

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## SUMMARY

Computer Science graduate with hands-on experience building AI systems through research-driven projects and applied engineering. I have worked across machine learning, NLP, and LLM-based applications using both PyTorch and TensorFlow, with experience in Dockerized and cloud-based deployments. My portfolio includes intelligent assistants, computer vision systems, automation tools, and cost-efficient chatbot architectures. I am dedicated to continuously advancing my research and engineering skills, with the long-term goal of driving innovation and contributing to the global applied AI ecosystem.

## EDUCATION

Bachelor of Science in Computer Science — **University of Karachi**

January 2021 – December 2024

- **Final Year Project:** Sign Language Translator (Built a real-time sign language recognition system using MediaPipe and LSTM to classify gestures from facial, pose, and hand landmarks.)
- **Modules:**
  - Artificial Intelligence
  - Data Warehousing & Data Mining
  - Statistics & Data Analysis
  - Natural Language Processing
  - Data Structures

## TECHNICAL SKILLS

- **AI & Computer Vision** (PyTorch, Object Detection, Image Segmentation, Face Recognition, NLP)
- **Generative AI & Voice Agents** (LLM Integrations, Custom Agents, Prompt Engineering, VAPI, ELEVEN Labs)
- **Full-Stack Development** (Python, React.js, Next.js, Flask, FastAPI, API Integration)
- **Cloud & Automation** (AWS Services, Docker, Zapier, Make, n8n)

## PROFESSIONAL EXPERIENCES

### AI ENGINEER

**Viral Tech - Remote**

**01-August-2025 - Present**

- Designed architecture and implemented an e-commerce chatbot with cost-optimized infrastructure
- Conducted research on new LLMs, analyzing capabilities and inference cost metrics
- Developed n8n workflows, including an email-to-CSV newsletter summarizer and a Telegram-based image generator using Nano Banana
- Built an AI-based chat system called Knowlyst where users can submit web/video links; the system scrapes, stores, and enables question-answering on the content
- Managed project tasks and workflows using ClickUp
- Created AI-driven video generation workflows for ad content production

### AI ENGINEER

**TechThrone Innovations Pvt. Ltd. – Karachi, Pakistan**

**01-May-2025 – 31-July-2025**

- Built a local LLM, similar to ChatGPT, for content and social media management
- Developed AI tools including text-to-image generation, HR screening automation, and lead-generating agents
- Cleaned and analyzed geospatial and business data from major companies like CBL and EBM
- Deployed chatbots and AI solutions to drive agency-wide AI transformation

## Jr. AI ENGINEER

CodeNexo – Karachi, Pakistan

01-January-2025 – 30-April-2025

- Developed AI tools for newsletter/blog generation using Claude API, Flask, and YouTube data
- Automated workflows via Asana and deployed scalable apps on AWS
- Built internal tools for content automation and team productivity with LLMs and prompt engineering

## RESEARCH & INTERNSHIP EXPERIENCE

### Python and Computer Vision Development

The Disrupt Labs – Karachi, Pakistan

01-June-2024 – 1-October-2024

- Researched and Developed Python Scripts to measure 2D object distances in warehouses.
- Applied open-source depth estimation models to real-time CCTV feeds.

### Artificial Intelligence & NLP

Smart City Lab (NCAI) – Karachi, Pakistan

05-December-2023 – 30-May-2024

- Built an NLP driven Arabic Medical chatbot
- Benchmarked speech models (Whisper, Wav2Vec) to evaluate transcription accuracy for Urdu.

## PERSONAL PROJECTS

### 1. Vigil - AI Governance Dashboard:

Open-source LLM observability and safety platform featuring a Model Registry, real-time audit logging, automated PII and toxicity detection, live cost tracking for 250+ models, NIST AI RMF-aligned compliance PDF reports, and a Python SDK. Built with FastAPI, React, PostgreSQL, Redis, Docker, and Microsoft Presidio.

**GitHub:** <https://github.com/amiraijaz/ai-governance-dashboard>

### 2. Legal Mind AI - RAG-Powered Legal Document Assistant:

AI system that helps lawyers instantly extract accurate insights from large legal documents using natural language queries, built with Retrieval-Augmented Generation architecture.

**Live:** <https://legal-mind-ai-assistant.vercel.app/>

### 3. UK License Plate Detection and Recognition System:

Real-time vehicle license plate detection and recognition system using YOLOv8 for accurate plate extraction and number reading, designed for traffic signal monitoring applications.

**GitHub:** <https://github.com/amiraijaz/UK-License-Plate-Detection>

### 4. Realtime Face Recognition Attendance System:

Automated attendance system using real-time facial recognition with Firebase integration, live video feedback, and downloadable reports.

**GitHub:** <https://github.com/amiraijaz/Realtime-FaceRecognition-AttendanceSystem>

### 5. Visual Question Answering System:

Deep learning system that interprets images and answers natural language questions using combined computer vision and NLP techniques.

**GitHub:** <https://github.com/amiraijaz/Visual-Question-Answering-System>

## CERTIFICATIONS

1. **Artificial Intelligence on Microsoft Azure** – Provided by Microsoft

<https://www.coursera.org/account/accomplishments/verify/U5MS6GBQ9R6G>

2. **Python for Data Science, AI & Development** – Provided by IBM

<https://www.coursera.org/account/accomplishments/verify/S58MWS5MGAVD>

## LANGUAGES

1. English Proficiency – IELTS (Band Score = 6.5 and CEFR Level = B2)
2. Urdu (Native)
3. Punjabi