

# SAQUIB IQBAL KHAN

AI/ML Engineer / Cloud Solutions / Python Developer

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## EDUCATION

**B.Tech - Computer Science & Engineering**

Vellore Institute of Technology

**Aug 2021 – Aug 2025**

Chennai, India

## PROFESSIONAL EXPERIENCE

**Junior Developer (Testing & AI/ML)**

iQuadra Information Services

**Aug 2023 – Oct 2023**

Remote

- Tested and validated ML models for AI interview platform, identifying 25+ critical bugs and performance issues.
- Collaborated with data science team to improve model accuracy and reliability by 30%.
- Documented test cases and automated regression testing for production releases.

**AI & Machine Learning Extern**

Google Developers / SmartInternz

**Aug 2023 – Nov 2023**

Remote

- Completed hands-on projects in AI/ML, including model development and deployment.
- Collaborated with industry mentors on real-world AI solutions.
- Applied best practices in ML engineering and cloud integration.

## TECHNICAL SKILLS

**Languages:** Python, C++, Java, SQL, Bash

**Web/Frontend:** React, TypeScript, Tailwind CSS

**AI/ML:** scikit-learn, TensorFlow, PyTorch, Keras, OpenCV, RAG, YOLOv5/YOLOv8, Hugging Face Transformers, LLMs (GPT, BERT, T5), LangChain, OpenAI

**MLOps/Cloud:** AWS, Docker, MLflow, Git, FastAPI, RESTful APIs, Render

**Other:** N8N, Data Structures, Algorithms, Cryptography, Linux, Agile/Scrum

## LEADERSHIP & ACHIEVEMENTS

**Board Member & Operations Lead, Enactus VIT Chennai**

Chennai, India

**Mar 2023 – Jul 2024**

- Led social entrepreneurship projects, managed teams of 15+ members, and received the **Young Entrepreneurial Leadership Award** and **Most Voted Video Award** at **Enactus India 2023** for technology-driven community solutions.

## PROJECTS

**Personal Portfolio Website with AI Chatbot / React, TypeScript, Tailwind CSS, Render, LangChain**  **2025**


- Designed and deployed a responsive developer portfolio using React, TypeScript, and Tailwind CSS, hosted on Render.
- Integrated an AI-powered chatbot leveraging LangChain and Perplexity (Sonar-pro), enabling real-time Q&A.
- Showcased projects, skills, and certifications in a modern, UX-focused web application.

**RAG-QA System: Retrieval-Augmented Question Answering / LangChain, OpenAI, Pinecone, Streamlit**  **2025**

- Built an end-to-end RAG (Retrieval-Augmented Generation) QA system combining LLMs and vector search for enterprise knowledge queries.
- Utilized LangChain and Perplexity models for dynamic answer generation from internal documentation.
- Deployed Pinecone for fast semantic search over embedded text chunks, ensuring relevant context retrieval.

**Real-Time Weapon Detection for CCTV / YOLOv8, OpenCV, Python, AWS Lambda**  **2023**

- Developed a real-time multi-class weapon detection system using YOLOv8, achieving 94% mAP on custom dataset.
- Optimized video stream inference for edge deployment with OpenCV and quantization.
- Integrated AWS Lambda for scalable, serverless inference.

**Algorithmic Trading System with ML & Automation / Python, scikit-learn, Yahoo Finance, Google Sheets**  **2025**

- Developed an automated trading system using RSI and MA crossovers, enhanced with ML-based price prediction.
- Automated data ingestion, trade logging to Google Sheets, and Telegram signal notifications.

## CERTIFICATIONS

**AI & Machine Learning Externship**

Google Developers / SmartInternz

**Aug 2023 – Nov 2023**

Certificate ID: Ext-AIML-2024-76503

**AWS Solutions Architecture Virtual Experience Program**

Amazon Web Services (AWS) - Forage

**Jul 2023**

Verification Code: hpxh5fdc4Y5GZyoPC

**Software Engineering Virtual Experience**

J.P. Morgan - Forage

**2023**

Verification Code: hpxh5fdc4Y5GZyoPC