

# SAQUIB IQBAL KHAN

AI/ML Engineer / Cloud Solutions / Python Developer

Chennai, India | 📞 +91-8084783493 | ✉️ saquib44.khan@gmail.com | 🔗 LinkedIn | 🐙 GitHub

## PROFESSIONAL SUMMARY

Final-year B.Tech CSE student with hands-on experience in AI/ML, cloud architecture, and software engineering. Proficient in Python, C++, TensorFlow, PyTorch, and AWS. Built and deployed ML models for computer vision and NLP, including real-time detection, federated learning, and LLM-powered chatbots. AWS Solutions Architecture and Google AI/ML certified. Seeking entry-level AI/ML engineering roles.

## 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

**ML/DL:** Scikit-learn, TensorFlow, PyTorch, Keras, OpenCV, YOLOv5/YOLOv8, Detectron2, Hugging Face Transformers, LLMs (GPT, BERT, T5), LangChain

**MLOps/Cloud:** AWS (SageMaker, EC2, S3, Lambda), Docker, MLflow, Git, FastAPI, RESTful APIs

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

## LEADERSHIP & ACHIEVEMENTS

**Board Member, Enactus VIT Chennai**  
Chennai, India

**Mar 2024 – Jul 2024**

- Led social entrepreneurship projects and managed teams of 15+ members.
- Spearheaded technology-driven solutions for community development.

**Operations Head, Enactus VIT Chennai**  
Chennai, India

**Apr 2023 – Mar 2024**

- Awarded **Young Entrepreneurial Leadership Award** and **Most Voted Video Award** at Enactus India 2023.

## PROJECTS

**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.

**Secure Federated Learning Framework / PyTorch, AES-GCM, Multi-node**

**2025**

- Designed a privacy-preserving federated learning system with AES-GCM encryption, maintaining 92.8% accuracy.
- Implemented rotating cryptographic keys for forward secrecy and simulated adversarial robustness.

**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**

**AWS Solutions Architecture Virtual Experience Program**

Certificate ID: Ext-AIML-2024-76503

Amazon Web Services (AWS) - Forage

**Jul 2023**

**Software Engineering Virtual Experience**

Verification Code: hpzh5fdc4Y5GZyoPC

J.P. Morgan - Forage

**2023**

Professional Development