SAQUIB IQBAL KHAN

AI/ML Engineer | Cloud Solutions | Python Developer

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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, AWS, React, and TypeScript. Built and deployed ML models for computer vision, NLP, and AI chatbots. AWS Solutions Architecture and Google AI/ML certified. Seeking entry-level AI/ML engineering roles.

EDUCATION

B.Tech - Computer Science & Engineering   Aug 2021 – Aug 2025
Vellore Institute of Technology   *Chennai, India*

PROFESSIONAL EXPERIENCE

Junior Developer (Testing & AI/ML)   Aug 2023 – Oct 2023
iQuadra Information Services   *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   Aug 2023 – Nov 2023
Google Developers / SmartInternz   *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
ML/DL: scikit-learn, TensorFlow, PyTorch, Keras, OpenCV, 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   Mar 2023 – Jul 2024
Chennai, India
- 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.

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.
- Developed dynamic key management, real-time dashboard, and Docker-based deployment for reproducibility.

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   Aug 2023 – Nov 2023
Google Developers / SmartInternz   *Certificate ID: Ext-AIML-2024-76503*
AWS Solutions Architecture Virtual Experience Program   Jul 2023
Amazon Web Services (AWS) - Forage   *Verification Code: hpxh5fdc4Y5GZyoPC*
Software Engineering Virtual Experience   2023
J.P. Morgan - Forage   *Verification Code: hpxh5fdc4Y5GZyoPC*