

UMAIR AMJAD KHAN

AI & Machine Learning Engineer | Founder & CEO @ icode Studios

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EXECUTIVE SUMMARY

Forward-thinking **AI & Machine Learning Engineer** and Founder & CEO at **icode Studios** with specialized expertise in LLM pipelines, RAG architectures, Computer Vision, and autonomous agentic systems. Demonstrated track record developing production AI solutions—including agricultural diagnostic engines, deepfake detection pipelines, and real-time vision systems. Scored in the **88th percentile nationally** on the HEC Skill Competency Test 2026.

TECHNICAL SKILLS & EXPERTISE

AI / Machine Learning:	PyTorch, TensorFlow, Keras, Vision Transformers (ViT), YOLOv4/v8, MoE, ResNext, LSTM, OpenCV
GenAI & Agents:	LangGraph, LLM Fine-Tuning, RAG, Prompt Engineering, Autonomous AI Agents, Transformers
Languages & Web:	Python, C++, TypeScript / JavaScript, SQL, Next.js, React, Node.js, Flutter, HTML5/CSS3
Tools & MLOps:	Docker, Git/GitHub, Figma, NumPy, Pandas, Matplotlib, Cyber Security, Networking

KEY ENGINEERING PROJECTS

Zari.AI — Crop Disease Detection & Recommendation System	2026
• Developed an AI-driven agricultural platform utilizing fine-tuned Vision Transformers (ViT), Mixture of Experts (MoE), and RAG pipelines for real-time crop disease diagnosis and automated treatment recommendations.	
Deepfake Video Detection Architecture	2024
• Architected a spatial-temporal hybrid LSTM + ResNext neural network for deepfake video classification. Built an end-to-end preprocessing pipeline for face detection, frame extraction, and cropping using OpenCV.	
Real-Time Object Detection Engine	2023 – 2024
• Implemented high-accuracy YOLOv4 and YOLOv8 models achieving 85% mAP for custom object detection. Deployed live webcam/mobile stream processing running at 30+ FPS.	
Neural Text Summarization & Translation Pipeline	2024 – 2026
• Engineered extractive and abstractive NLP pipelines using BART, Transformers, and TextRank for multi-document text summarization and real-time multi-language translation.	
Plant Disease Classifier	2024
• Trained CNN image classification models on 5,000+ leaf images achieving ~88% validation accuracy with Pandas/Matplotlib analytical pipelines.	

WORK EXPERIENCE

Founder & CEO — icode Studios	2025 – Present Remote
• Leading production AI systems development, LLM pipelines, client consulting, and full-stack software deployment.	
Data Entry & Systems Specialist — Gallant Engineers	2023 Pakistan
• Managed operational data records, verified database integrity, and generated automated reporting analytics.	

EDUCATION & CERTIFICATIONS

BS Artificial Intelligence — University of Haripur	2022 – 2026
FSc Pre-Engineering — Jinnah Education System (FBISE: 818/1100)	2020 – 2022
Certifications & Honors: HEC National Skill Competency Test 2026 (88.1 Percentile) • Advance-AI BootCamp (GIKI) • Deep Learning Specialization (Coursera) • Generative AI & Model Selection (Vanderbilt) • Python for Data Science & AI (IBM) • AI Agents in LangGraph • Cybersecurity Foundations (Coursera)	