

# ANAS AKRAM

## AI ENGINEER | SPECIALIZED IN COMPUTER VISION

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### PROFESSIONAL SUMMARY

I'm an AI Engineer with over 3+ years of experience specializing in computer vision, AI automation, and edge deployment using platforms like Jetson Orin NX, Raspberry Pi, and TensorRT. I enjoy building end-to-end intelligent systems from real-time AI solutions for casinos to generative AI pipelines. I have hands-on experience with OpenAI API integration, n8n automation, and multi-server GPU workflows. I take pride in delivering commercial-grade AI solutions, consulting on high-impact projects, and deploying scalable applications across Ubuntu/Linux, Hostinger, and custom servers.

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### PROFESSIONAL EXPERIENCE

#### AI Engineer — Onimta IT, Colombo

Jan 2024 – Present

- Developed a large-scale face recognition system handling 250,000+ identities for casino analytics and security, enabling real-time player identification.
- Engineered a Baccarat chip counting system deployed across multiple casino tables with live tracking and classification.
- Supervised and consulted on the Blackjack AI vision system project, guiding the team on real-time detection and counting of cards and chips using YOLO.
- Integrated Redis for high-speed data synchronization between distributed inference servers.
- Deployed GPU-optimized pipelines on Jetson Orin NX and Ubuntu environments for low-latency edge AI performance.
- Built Flask + WebSocket APIs capable of handling 100+ concurrent requests/sec for continuous casino operations.

#### AI and Automation Manager — Techserandib Pvt Ltd, Colombo

Dec 2023 – Present

- Developed a Facebook message automation system using n8n and OpenAI API, hosted on a custom server for 24/7 message handling.
  - Built and maintained custom websites with HTML, CSS, and JavaScript; deployed and managed through Hostinger.
  - Created AI workflow integrations connecting automation pipelines, web interfaces, and backend APIs for seamless system communication.
  - Assisted in deploying early prototypes of object detection and vision-based automation models for internal research.
  - AI voice receptionist with real-time phone integration.
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### EDUCATION

#### BSc (Hons) in Computer Science with Artificial Intelligence — Coventry University, UK

- Completed 2025
- Overall: 80 % (First-Class Honours)
- Key Modules: Machine Learning (83 %), Artificial Neural Networks (75.5 %), Intelligent Agents (79 %), Security (82 %), Individual Project (82 %)

## HND in Computer Science with Artificial Intelligence — NIBM

- Completed 2023
- Specialization: Artificial Intelligence

## HIGHLIGHTED PROJECTS

- SmartFace Sentinel – Face Recognition System — Casino-scale identity recognition platform with 250K+ profiles for security and marketing analytics.
  - ThreatCipher Automation Platform — Automated threat detection and mitigation system for secure enterprise workflows.
  - Chip Detection & Counting System — Fully automated chip classification and counting system for Baccarat and Blackjack using real-time computer vision and GPU acceleration.
  - LLM Finetune & Deployment on Hugging Face — Fine-tuned a large language model and deployed it via Hugging Face for commercial/API use.
  - AI-Guided Storybook Illustration Generator — Combined Stable Diffusion with IP-Adapter FaceID to generate realistic character images guided by face embeddings; extracted embeddings with InsightFace, and produced high-quality outputs using Diffusers pipeline, DDIM scheduler, and VAE.
  - Developed a AI voice receptionist with real-time phone integration using FastAPI, Twilio, Deepgram STT, and ElevenLabs TTS, featuring advanced voice activity detection, barge-in handling, and sub-second conversational response latency
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## TECHNICAL SKILLS

- AI & Deep Learning: PyTorch, TensorFlow, TensorRT, ONNX, Ultralytics, InsightFace ,YOLO
- Computer Vision: Object detection, chip/card recognition, image classification, segmentation
- AI Automation: n8n, OpenAI API, Redis, Flask, FastAPI, WebSocket, REST APIs
- Web Development: HTML, CSS, JavaScript, Bootstrap, Responsive UI/UX ,React
- Deployment & DevOps: Ubuntu, Linux,L4T, Docker, Hostinger, custom servers, MySQL, Git
- Hardware Platforms: NVIDIA Jetson Orin NX, Raspberry Pi 5 , CUDA Servers
- Programming: Python, TypeScript, SQL, Bash

## CERTIFICATIONS

- Microsoft Azure AI Fundamentals — May 2024 (Microsoft) [Certificate Link](#)
- AWS vs Azure vs GCP — Apr 2025 (Great Learning Academy)
- Introduction to Generative AI — Mar 2024 (Google) [Certificate Link](#)
- Build a Computer Vision App with Azure Cognitive Services — Mar 2024 (Microsoft) [Certificate Link](#)

## ACHIEVEMENTS

- Graduated with First-Class Honours (80 %) in BSc Artificial Intelligence.
- Successfully deployed AI systems in live casino environments for security and analytics.
- Created OpenAI API-powered automation pipelines, reducing manual response times by 90%.
- Recognized for bridging AI engineering, automation, and web deployment in commercial applications.

## TECHNICAL INTERESTS

Computer Vision | Edge AI | AI Automation | Reinforcement Learning | Web-AI Integration