

# MOHAMMAD AMMAR

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## PROFESSIONAL SUMMARY

AI & Computer Science graduate with hands-on experience in machine learning, full-stack development, and cybersecurity. Skilled at taking projects from model training to deployment, with a track record of building tools that work in the real world. Former Co-Founder of an in5 Dubai-incubated AI startup. Certified in NVIDIA Deep Learning, Microsoft Azure AI, and Samsung AI. Python | TensorFlow | Machine Learning | NLP | Computer Vision | Django | React | Cybersecurity | REST APIs | Docker | Deep Learning | Anomaly Detection | Cloud | AI Solutions

## EDUCATION

**MSc Artificial Intelligence and Cybersecurity** | University of Sheffield, UK *Sep 2025 – Jan 2027*

**BSc (Hons) Computer Science and Artificial Intelligence** | University of Birmingham Dubai *Sep 2022 – Jul 2025*

- Dissertation: Ellie — Empathetic Chatbot with Emotion Recognition & Avatar Integration (72% — First Class)
- Chancellors Academic Merit Scholarship | Birmingham Dubai Award | ACM Student Chapter | GITEX Global 2024 Delegate

## WORK EXPERIENCE

**Director & General Manager (Co-Founder)** | Exara AI FZ LLC — in5 Dubai (Hybrid) *June 2025 – April 2026t*

- Co-founded Exara, an AI company incubated at in5 Dubai; contributed to strategic planning, product direction, and coordination across technical and non-technical areas
- Helped shape AI solution ideas, supported business development, prepared project concepts, and strengthened understanding of building AI solutions around user and business needs

**Web Development Intern** | Frostchem Global FZE — Sharjah, UAE (Remote) *Nov 2024 – Feb 2025*

- Contributed to design, development, and optimisation of the company website; built and improved key pages including services, products, events, and contact sections
- Gained practical experience in web development, UI implementation, client-focused problem solving, and building professional business websites

## KEY PROJECTS

**Ellie — AI Empathetic Chatbot (First Class Dissertation, 72%)** *2024–2025*

- Full-stack emotion-aware chatbot: facial emotion recognition (CNN, FER2013), Cohere API, Django, React, Firebase, AWS Polly
- 3D avatar with real-time lip-sync; emotion-adaptive responses; secure REST APIs deployed across desktop and mobile

**Brain Tumour Detection — Deep Learning (Samsung Innovation Campus)** *2025*

- CNN achieving 95% accuracy classifying brain MRI scans; Grad-CAM interpretability; Python, TensorFlow, Keras, OpenCV
- Data augmentation, precision/recall/F1 evaluation, and real-time practitioner-facing diagnostic interface

**Renewify — Full-Stack Upcycling Web App** *2024*

- Led team build of social + e-commerce platform; 15+ React components, Flask APIs, CI/CD pipeline
- Integrated Hugging Face transformer chatbot trained on 1,000+ examples for personalised DIY recommendations

**PhishSense & LogGuard AI — Cybersecurity ML Tools** *2024*

- PhishSense: NLP + TF-IDF phishing detection pipeline with risk-scoring dashboard; supervised ML, URL feature analysis
- LogGuard AI: anomaly detection on system logs; IP tracking, brute-force flagging, threat prioritisation

## TECHNICAL SKILLS

<b>Languages</b>	Python, JavaScript, Java, C, Haskell, HTML/CSS, SQL
<b>AI / ML</b>	TensorFlow, Keras, Scikit-learn, OpenCV, Hugging Face, Cohere, NLP, Deep Learning, CNNs
<b>Web &amp; Backend</b>	Django, Flask, React, Node.js, RESTful APIs, Firebase
<b>Cloud &amp; DevOps</b>	AWS (Polly), Docker, Git, CI/CD, MongoDB
<b>Cybersecurity</b>	Vulnerability Assessment, Anomaly Detection, Log Analysis, Phishing Detection

## CERTIFICATIONS

Samsung Innovation Campus AI • Birmingham Dubai Award • Microsoft Azure AI (NLP & CV) • NVIDIA Deep Learning Fundamentals • IBM DevOps • Dubai Police Cybersecurity Workshop

## LANGUAGES

English (Full Professional Proficiency) • Urdu (Native / Bilingual)