Iman Hussain

Entitled to work in Netherlands
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Automation engineer (PhD) specialising in design and deployment of intelligent agents and automation workflows. Proven experience in multi-model AI's, RAG strategies and performance tuning of models.

Skills

Frameworks: Python (PyTorch, TensorFlow, Scikit-Learn, Pandas), Hugging Face Transformers, OpenAI API.
Cloud & DevOps: AWS, Docker, Git, Linux (Arch, Ubuntu), Kubernetes, API Integration.
AI/ML Agents: LangSmith, n8n, multi-step reasoning, prompt engineering, agentic RAG.
Model Fine-tuning: PEFT, LoRA, supervised fine-tuning, chunking strategies, vector databases.
Evaluation: Model accuracy & reliability, performance optimisation, framework development.

Work Experience

Cranfield University – Lecturer (2023 - 2025)

- Consulted with industry partners (BAE Systems, Santander, HM Government) on the practical implementation of AI, including fine-tuning and performance evaluation.
- Designed and delivered technical workshops for industry professionals on building and deploying AI agents and automation workflows.
- Mentored and upskilled over 100 members of staff in prompt engineering and the use of modern AI tools and their best practices.

Centre for Global Eco-Innovation – Researcher (2021 - 2023)

- Developed predictive modelling techniques using regression and deep learning to balance indoor air quality and reduce energy usage by 17% to meet stakeholder and sustainability needs.
- Designed and deployed end-to-end data pipelines to process over 2 million real-time data points over 2 week periods from Linux based IoT sensors, including fine-tuning and optimisation.
- Evaluated and presented complex model outputs, data visualisations and strategic recommendations to over 30 stakeholders, delivering actionable insights to inform data policy.

CapGemini – Computer Vision Developer (2020 - 2021)

- Built a TensorFlow and OpenCV based computer vision model that automated data extraction from images and live video with 86% accuracy in real-world tests.
- Collaborated as part of a team using agile methodologies, scrum management and Git version control.
- Presented business case and live technical demonstration to a panel of senior executives winning 3rd place out of 40 competitors.

Education

Lancaster University - PhD Candidate, Computer Science (January 2021)
University of Wolverhampton - MSc Computer Science Distinction Star (September 2019 – July 2020)
University of Wolverhampton - BSc Computer Science First Class with Honours (September 2016 – July 2019)

Achievements & Engagement

IBM Call for Code 2020: World 2nd Place Finalist, Team LUPE
CapGemini TechChallenge 2021: Top 3 Finalist, Team Visionaries
Public Speaking: Invited speaker at major forums including TEDx, COP26, and the ACM SIGCHI '23 conference.
Publications: Lead author on peer-reviewed papers, including "The Indoor Air Quality Trilemma" (CHI EA '23) and "Ensuring Food Supply & Security" (IGI Global).