

# KUNAL GAIKWAD

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Based in India; prior UK experience, requires Skilled Worker Visa sponsorship; immediate relocation ready.

## SUMMARY

AI/ML Engineer with 5+ years' experience translating applied research into production-grade AI systems across NLP, computer vision, and agentic AI workflows. MSc (Distinction) in Artificial Intelligence from Sheffield Hallam University with UK research experience in vision-based analytics. Proven track record delivering scalable ML solutions, LLM-powered pipelines, and automation tools with measurable accuracy, efficiency, and ROI gains.

## TECHNICAL SKILLS

Python, TensorFlow, PyTorch, HuggingFace, Scikit-learn, Transformers, RAG, LLM Integration, Agentic AI Workflows, NLP (BERT/SpaCy), Computer Vision (YOLO, CNNs), MLOps (AWS SageMaker, Docker, REST APIs), Cloud Deployment (AWS, Azure, GCP), Data Visualisation (Pandas, Plotly, PowerBI), Agile Collaboration, Research-to-Deployment Engineering.

## WORK EXPERIENCE

**Freelance AI Engineer** | Borehamwood, UK

**October 2023 – October 2025**

Freelancing alongside part-time/non-technical work during relocation and post-study period. Built end-to-end AI solutions as a freelance engineer while based in the UK/India.

- Delivered end-to-end AI systems for clients across NLP and vision—RAG pipelines, resume parsers, and CNN-based classification achieving 95%+ accuracy.
- Prototyped multi-step agentic AI workflows integrating LLMs with external APIs for autonomous task orchestration and reasoning.
- Engineered retrieval-augmented Q&A systems with transformer models, cutting domain query resolution time by 70%.
- Deployed Python-based automation tools to production, ensuring stability and modularity under cloud constraint environments.

**Amazon** | FC Associate | Doncaster, UK

**July 2024 – October 2025**

Non-technical role during relocation period, focused on operational excellence in a high-throughput environment.

- Maintained process discipline in high-throughput logistics operations, achieving 100% safety compliance and productivity SLAs during relocation phase.

**Research Associate – Sports Engineering Research Group, UK**

**Jul 2023 – Oct 2023**

- Built high-accuracy pose estimation and tracking models (YOLO + AutoML) improving motion analysis accuracy by 92%.
- Reduced processing time by 25% through ROI-optimised inference pipelines at TRL 4–6, bridging academic research and commercial deployment.
- Co-authored internal reports on AI performance metrics and reproducible model evaluation protocols.

**Machine Learning Engineer – Quantiphi Analytics Pvt Ltd, India**

**May 2021 – Aug 2022**

- Directed development and deployment of NLP models (BERT/LLMs) for insurance claim adjudication, raising accuracy by 68% and throughput by 80%.

- Modernised ML infrastructure using Docker and SageMaker, cutting model iteration cycles by 40%.
- Guided cross-team adoption of predictive models for high-volume claims systems, contributing to multi-million-pound operational savings.

#### **Software Engineer, Winjit Technologies Pvt Ltd, India**

**Aug 2018 – Apr 2021**

- Architected and delivered enterprise-grade computer vision and NLP solutions (OpenCV, TensorFlow), improving client accuracy by 50% and slashing manual errors to 5%.
- Deployed ML APIs on AWS for real-time defect detection and OCR systems used by manufacturing clients.
- Spearheaded internal R&D prototypes advancing TRL 3–6 project maturation.

#### **EDUCATION**

##### **Sheffield Hallam University, Sheffield, UK (Sept 2023)**

MSc Artificial Intelligence (Distinction), specialising in computer vision, deep learning and applied ML. Dissertation and research conducted with the Sports Engineering Research Group (SERG) on vision-based performance and motion analysis.

##### **Sinhgad College of Engineering, Pune (Jun 2018)**

Bachelor's in Information Technology

- Solid foundation in Python, machine learning libraries, data structures, Git, and database management systems.
- Knowledge of computer networks, OS, software engineering principles, ethical AI, and reinforcement learning.

#### **INTERPERSONAL SKILLS**

- Cross-functional team leadership and mentoring
- Strong analytical and problem-solving skills
- Strategic decision-making and stakeholder management
- Self-motivated, innovative, and organized
- Excellent communication and presentation skills

#### **CERTIFICATION**

- PGDM in Machine Learning and AI - IIIT Bangalore, India (June 2021)
- IBM Data Analyst Professional Certificate – Coursera (2024)
- IBM Generative AI for Data Scientists Specialisation – Coursera (2024)
- Continuous learning: Latest LLM developments, agentic AI frameworks, and production ML best practices

#### **THOUGHT LEADERSHIP & PROJECT IMPACT**

- Mentored junior ML engineers and guided adoption of reproducible ML practices.
- Delivered internal presentations on LLM orchestration, agentic AI frameworks, and scalable model deployment.
- Actively exploring Microsoft Copilot Studio and Foundry integrations for applied R&D scenarios.