

Shivam Kumar

Junior AI / ML Engineer

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PROFILE

Junior AI / ML Engineer with hands-on experience building and deploying machine learning models, NLP pipelines, REST APIs and LLM-powered applications. Strong Python engineering foundation combined with practical experience across ISO 27001, GDPR, the EU AI Act and AI governance. AWS Certified AI Practitioner and CompTIA Security+ certified, with 19 public GitHub repositories and three live, publicly usable applications.

TECHNICAL SKILLS

- Languages & frameworks:** Python, JavaScript/TypeScript, SQL, FastAPI, LangChain, scikit-learn, TensorFlow/Keras, PyTorch, pandas, NumPy
- AI & machine learning:** Supervised and unsupervised learning, NLP, text classification, sentiment analysis, BERT/DistilBERT, computer vision, CNNs, RAG, FAISS, LLM integration with Groq and Llama 3
- Deployment & tools:** Git/GitHub, Streamlit, REST APIs, Jupyter Notebook, VS Code, Docker, Azure AI, Google AI Studio, Power Automate
- Data & governance:** Data wrangling, model evaluation, feature engineering, EU AI Act classification, GDPR data processing, ISO 27001 control mapping

SELECTED AI / MACHINE LEARNING PROJECTS

- RAG Compliance Chatbot** Live | Python · LangChain · FAISS · Hugging Face · Groq / GPT-OSS 120B · Streamlit · PyPDF
A retrieval-augmented chatbot that answers natural-language questions about AI regulation, with the source passages cited back to the reader.
- GDPR Request Classifier** Live | Python · Streamlit · SQLite · Rule-based classifier · Input validation
Triage incoming data-subject requests, maps each one to the relevant GDPR article and recommends the next compliance action.
- 2026 World Cup Predictor** Live | Python · XGBoost · scikit-learn · pandas · NumPy · Streamlit · Kaggle API
Predicts the outcome of any international football fixture using an XGBoost classifier trained on more than 25,000 historical matches.
- EU AI Act Risk Checker** | Python · FastAPI · Streamlit · Jinja templates · Audit logging
A REST API and web interface that screens an AI use case against the EU AI Act risk tiers and returns a structured, explainable verdict.
- Sentiment Analysis API** | Python · DistilBERT · Hugging Face Transformers · FastAPI · Uvicorn
A production-style REST service that classifies text as positive or negative using a fine-tuned DistilBERT model.
- CIFAR-10 CNN & API** | Python · TensorFlow · Keras · FastAPI · Uvicorn · Jupyter
A convolutional neural network trained on CIFAR-10, benchmarked against a dense baseline and served through a REST API.
- CV Screener API** | Python · sentence-transformers · MiniLM · FastAPI · Uvicorn
Scores how well a candidate CV matches a job description using semantic sentence embeddings rather than keyword counting.

PROFESSIONAL EXPERIENCE

- AI Compliance Specialist** August 2025 – Present
Peak Cyber Institute, Remote (United Kingdom)
- Mapped 100+ security controls to the NIST Cybersecurity Framework, applying the structured analysis used in machine learning labelling and evaluation workflows.
 - Reduced audit response time by 35% by centralising evidence repositories and building automated documentation pipelines with Python and Power Automate.
 - Conducted gap analysis across 15 high-risk exposure areas, translating unstructured findings into structured, actionable outputs.

- Presented technical findings to senior stakeholders using clear, evidence-based communication.

Early Careers Cyber Security Analyst

January 2025 – July 2025

LRQA Nettitude, United Kingdom

- Created control-mapping documentation aligning client environments to ISO 27001 and SOC 2.
- Supported 4+ successful client audits through evidence packs and compliance matrices, with zero critical findings raised.
- Facilitated 150+ assessments and tracked remediation actions end to end.
- Standardised assessment templates to improve process consistency and enable repeatable workflows.

Application Support / Integrations Analyst

September 2022 – December 2024

P&O Ferrymasters, United Kingdom

- Improved data-integration efficiency by 80% by redesigning data-flow mappings and refining legacy ETL-style processes.
- Enhanced mapping efficiency by a further 35% through iterative process improvement and technical documentation.
- Provisioned and reviewed user access in line with ISO 27001 governance standards.
- Built and tested Microsoft 365 Power Automate workflows, applying scripting logic and process-automation principles.
- Collaborated across cross-functional teams in structured, Agile-style delivery environments.

CERTIFICATIONS & TRAINING

AWS Certified AI Practitioner	Certified	Tenable One & Cloud Security	Completed
CompTIA Security+ (SY0-701)	Certified	Cybersecurity Compliance, Risk and Audit	Completed
Tenable Vulnerability Management Specialist	Completed	IT Career Switch AI Engineer Traineeship	Completed

EDUCATION

Self-directed AI / Machine Learning study — IT Career Switch — AI Engineer traineeship curriculum

Machine learning fundamentals, Python for AI, data handling and processing, deep learning, natural language processing, computer vision, Git/GitHub, AI deployment and MLOps.

VALUE PROPOSITION

Combines active machine learning delivery — 19 public repositories and three live deployed applications — with domain depth in AI governance, GDPR and regulated environments. Suited to junior AI/ML, responsible AI, compliance automation and applied NLP roles.