

KARTIK GOSWAMI

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GitHub: github.com/kartik703 | Portfolio: kartik703.github.io

PROFILE

AI Engineer passionate about building intelligent, ethical, and scalable ML solutions. Proven experience in training and deploying deep learning, NLP, and generative AI models using PyTorch, HuggingFace, and TensorFlow. Adept at integrating AI into cloud-based systems and streamlining model deployment with MLOps tools. Strong communicator and collaborator who bridges the gap between technical innovation and business impact.

TECHNICAL SKILLS

Languages: Python, R, SQL

Frameworks: PyTorch, TensorFlow, HuggingFace Transformers, Scikit-learn

Specialties: Deep Learning, NLP, Computer Vision, Generative AI, Reinforcement Learning

Tools: Docker, Git, MLflow, Streamlit, VS Code

Cloud & Deployment: AWS, GCP, Azure (familiar), REST APIs, MLOps

Big Data: Spark, Hadoop (basic)

Responsible AI: Fairness, Bias Mitigation, Ethical AI Deployment

EDUCATION

MSc in Data Science and Artificial Intelligence

Newcastle University, UK - Sep 2024 - Sep 2025 (Expected)

Core Focus: Machine Learning, Deep Learning, NLP, AI Engineering, Big Data Analytics

PROJECT EXPERIENCE

Multimodal Idiomaticity Classifier

Designed and fine-tuned transformer models to capture idiomatic meanings via multimodal inputs (text + image). Integrated generative augmentation and zero-shot prediction.

Tools: T5, SBERT, HuggingFace, PyTorch

Facial Mood Monitor

Deployed real-time CNN-based expression detection model on Hugging Face Spaces for mental health monitoring.

Tools: TensorFlow, OpenCV, Streamlit

AI Job Match Explainer

Built an LLM-powered app that matches resumes to job descriptions and generates explainable natural language feedback.

Tools: GPT-4, LangChain, Streamlit

PDF Summarizer

Built a document analysis app to extract and summarize content from academic PDFs using HuggingFace Transformers.

Tools: T5, Python, Streamlit

MLflow MLOps Pipeline

End-to-end ML pipeline including training, tuning, and continuous tracking. Deployed using Git + MLflow for repeatability.

Tools: Scikit-learn, XGBoost, MLflow, Hyperopt

CERTIFICATIONS

IBM: Exploratory Data Analysis for ML (2024)

Google: Data Foundations (2024)

IBM: What is Data Science? (2024)

GUVI: AI for India 2.0

EDX: Data Science Challenge

EXTRA-CURRICULAR & IMPACT

- Finalist at AI for Social Good Hackathon 2024

- AI Club Organizer: Conducted LLM and MLOps workshops
- Volunteer: Python instructor for school coding bootcamps
- Contributor to open-source projects related to vision and LLMs