

KARTIK GOSWAMI

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

PROFILE

Machine Learning Engineer passionate about building safe, high-quality AI systems that scale. Experienced in full ML pipelines, neural network development, LLM application building, and real-time deployments. Strong focus on evaluation, reliability, and user impact. Eager to contribute to a high-ownership, high-autonomy founding team tackling the hardest problems in LLM evaluation and safety.

TECHNICAL SKILLS

Languages: Python, SQL, R

Frameworks: PyTorch, HuggingFace Transformers, TensorFlow, Llama.cpp

Specializations: NLP, LLMs, Transformers, Vision, Transfer Learning

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

Systems: GPU training, REST API deployment, Model evaluation pipelines

Cloud & Big Data: Spark, Hadoop (basic), AWS/GCP familiarity

EDUCATION

MSc in Data Science and Artificial Intelligence

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

Core: Deep Learning, NLP, Computer Vision, Big Data Analytics

Tools: PyTorch, HuggingFace, Docker, SQL, MLflow

SELECTED PROJECTS

Multimodal Idiomaticity Classifier

LLM evaluation and augmentation using sentence paraphrasing, zero-shot SBERT, and fine-tuned transformers for complex semantic understanding.

Stack: HuggingFace Transformers, SBERT, T5, Accuracy/F1 evaluation

AI Investment Analyst

Stock performance evaluator with GPT-based financial explainability and KPIs.

Stack: LangChain, OpenAI API, yfinance, Streamlit

AI Job Match Explainer

LLM-based resume-to-job fit prediction with natural language explanation and ranking.

Stack: GPT-4, Sentence Embeddings, PDF Parsing

Food Calorie Estimator

Vision-based PyTorch classifier + calorie DB mapper for nutrition estimation.

Stack: PyTorch, Food101, Computer Vision, Streamlit

MLflow MLOps Pipeline

Full lifecycle MLOps pipeline including tracking, tuning, and versioning.

Stack: Scikit-learn, XGBoost, MLflow, Hyperopt

RESEARCH INTERESTS

LLM Evaluation & Safety

Constitutional AI & Reward Modeling

GenAI for Enterprise

Agentic AI Systems

AI for Social Impact & Healthcare

CERTIFICATIONS

IBM: EDA 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 ACTIVITIES

- AI Club Organizer at Newcastle University: Conducted workshops on GenAI tools and MLOps
- Finalist at AI for Social Good Hackathon 2024
- Mentor for Kaggle-style university competitions
- Volunteered for digital literacy camps introducing Python to school students