

KARTIK GOSWAMI

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

PROFILE

Machine Learning Engineer with a passion for sustainable technology and AI innovation. Proficient in building and deploying NLP and recommendation systems using Python, PySpark, and MLOps tools. Experienced in full-cycle model delivery, including data prep, tuning, evaluation, and cloud deployment. Excited by the opportunity to create impactful products that enhance travel experiences and drive meaningful environmental outcomes.

TECHNICAL SKILLS

Languages: Python, SQL, PySpark

ML/NLP: Transformers, LLMs, LangChain, Classification, Regression, Recommenders, RAG

Frameworks: Scikit-learn, Hugging Face, LightGBM, TensorFlow, LangGraph

Data Tools: Pandas, Numpy, Feature Engineering, Airflow

MLOps: MLflow, Docker, Terraform (basic), CI/CD, Git

Cloud & Infra: AWS (ECS, EMR, Athena), Streamlit, REST APIs

Agile/DevOps: GitHub Actions, Model Versioning, Agile Scrum

EDUCATION

MSc in Data Science and Artificial Intelligence

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

Modules: NLP, Machine Learning, Cloud Infrastructure, Generative AI

RELEVANT PROJECTS

Multimodal Idiomaticity Classifier

Fine-tuned transformer models to interpret nuanced idioms in context using text-image pairs.

Stack: T5, SBERT, Hugging Face, PyTorch

AI Job Match Explainer

Built resume-to-job LLM ranking system with real-time explanations.

Stack: GPT-4, LangChain, Streamlit, Python

PDF Summarizer

NLP model to process large academic documents into actionable insights using LLMs.

Stack: Hugging Face T5, Python, Docker

Agentic AI Search (Prototype)

LangGraph-based semantic RAG system deployed with vector database retrieval.

Stack: LangGraph, FAISS, OpenAI

CERTIFICATIONS

Certified Forage and Grassland Professional (British Airways), Mar 2025

IBM: Exploratory Data Analysis for ML (2024)

Google: Data Foundations (2024)

IBM: What is Data Science? (2024)

GUVI: AI for India 2.0

EXTRA-CURRICULAR & DEVELOPMENT

- AI Club Organizer: Delivered NLP & MLOps workshops for university peers
- Contributor to open-source ML projects with a focus on recommender systems and transformers
- 15+ AI/ML projects completed with live deployments and cloud integration