

Shubham Jakhmola

📍 Amsterdam (Ready to relocate within NL) 📄 Orientation-Year Residence Permit (NL zoekjaar)

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SKILLS

LLM Engineering & GenAI: Prompt Engineering, RAG, Agentic Systems Design, LangChain, LangGraph, Hugging Face (Transformers, PEFT), Vector Databases (FAISS, Redis), OpenAI-compatible APIs, vLLM

ML & Deep-Learning: PyTorch, TensorFlow, scikit-learn, CNNs, RNNs, Ensemble Methods, A/B Testing

Evaluation & Observability: Langfuse, RAGAS, MLflow

Natural Language Processing: spaCy, Sentence-Transformers, Gensim

Data Science & Visualization: Pandas, Polars, Matplotlib, Plotly

MLOps & Infrastructure: FastAPI, Docker, PySpark, Databricks, Jenkins, Prometheus, Grafana, Git

EXPERIENCE

AI Engineer, Bobble AI

Jun 2024 – Aug 2025 | Delhi, India

- Re-architected an in-app conversational agent with multi-agent RAG (proprietary LLM + web-search crawler → chunked docs in Faiss/Redis, hybrid BM25 + cosine retrieval). Manual eval showed factual-hit rate +67 pp and daily active users +150 % QoQ.
- Authored & iterated 100+ system prompts (few-shot, chain-of-thought) for Gen-AI keyboard features –smart replies, content generation, on-device rewrite–boosting feature-share taps 70 % and doubling campaign CTR during seasonal launches.
- Build a zero-/few-shot intent classifier pipeline that tags incoming text into key user intents; macro-F1 jumped to 0.87 (vs 0.72 legacy) and enabled personalised push flows with +11 % open rate.
- Built an unsupervised topic-segmentation pipeline: sentence-transformer embeddings → UMAP → HDBSCAN → GPT based label synthesis; uncovered 10+ usage themes that now guide product roadmap and UX micro-copy.

AI Model Trainer (Freelance), Translated

Sep 2023 – Jun 2024 | Italy, Remote

- Crafted prompt-answer pairs and preference rankings for RLHF/SFT on LLMs; applied rubric-based reviews and edge-case rewrites to improve alignment, safety, multilingual fluency.

Data Engineer, Northumbria University

Nov 2022 – Aug 2023 | Newcastle, UK

- Automated ETL and data-quality checks for 30 k + student records (PostgreSQL + Excel Power Query), eliminating duplicates and missing grades; lifted data accuracy significantly and cut monthly reconciliation time from two days to under three hours.

Research Assistant, Newcastle University

Aug 2022 – Nov 2022 | Newcastle, UK

- Built a semi-automated workflow in eCognition and QGIS to label ~10 k tree crowns across 50 km² of aerial imagery. GIS-based checks raised annotation quality (IoU +15 pp) and pushed a U-Net canopy segmentation model from 0.65 → 0.83 F1, providing cleaner data for the lab's forest-carbon study.

Python Developer, Golden Pegasus IT

Aug 2019 – Aug 2021 | Pune, India

- Engineered end-to-end data pipelines in Databricks (PySpark + Delta Lake) that ingested 20 M+ ERP records daily, performed cleaning / feature engineering, and landed production-ready tables–cut data latency from 6 h to <45 min.
- Developed & deployed demand-forecasting models (linear regression → gradient-boosted trees) achieving <8 % MAPE at SKU level; insights improved reorder policies, lifting efficiency and reducing stock-outs 18 %.
- Delivered executive dashboards (Tableau & Plotly Dash) showing SHAP-based feature importance and scenario analysis; monthly planning cycle time dropped from 2 days to 4 h.

EDUCATION

MSc in Advanced Computer Science (Distinction, 80.5%),
Newcastle University

Sep 2021 – Sep 2022 | Newcastle, UK

B.E. in Computer Science (First Class),
Savitribai Phule Pune University

May 2015 – May 2019 | Pune, India