

Jakub Strawa

PROFILE

Research-focused AI/ML engineer specializing in multimodal models, and generative AI. Driven to learn, replicate, and extend state-of-the-art methods.

EXPERIENCE

AI ENGINEER, ROCHE – 06.2025-CURRENT

Co-developed a self-service platform for creating and deploying custom AI agents, and designed a multimodal retrieval-augmented generation (RAG) use-case to integrate text, image, and structured data for enhanced insights. (*Python, Azure, AWS, Llama-index*).

AI ENGINEER / RESEARCHER, RAIFFEISEN BANK – 06.2024 - 05.2025

Automated invoice extraction (saving -1,500 man-days/year) and KYC form review (equivalent to 10 FTEs annually) using Generative AI and fine-tuned Vision-Language Models; proposed and secured implementation of a graph-based org-chart extraction solution with GPT & Neo4j for RAG; built a data-driven summary tool for relationship managers to cut prep time. (*Python, Databricks, Azure, AWS, HuggingFace, LlamaIndex, PyTorch, LLMs*)

AI ENGINEER, LINGARO – 05.2022 - 05.2024

Designed and optimized PySpark ETL pipelines on Databricks and Azure Data Factory –cutting job times by 50%; trained and deployed a YOLO-based dress-code analysis model; developed an action-recommendation and stock-optimization solution; partnered with stakeholders to propose and deliver tailored AI applications. (*Python, Databricks, Azure, AzureML, Scikit-learn, PySpark, Pandas*)

PYTHON DEVELOPER, DEOR – 11.2021-05.2022

Developed and optimized collaborative filtering algorithms for a pet-tech e-commerce platform—leveraging user behavior and transaction data to boost recommendation relevance; integrated these models into a Django REST API backend to deliver low-latency, high-performance services. (*Python, Django, Pandas, Docker, PostgreSQL*)

EDUCATION

- **Bachelor of Graphic Design**, UITM Rzeszów (2020-2023) – Thesis: Artificial Intelligence in Computer Graphics
- **Engineer's Degree in Computer Science** (expected 2027), WSB-NLU Nowy Sacz (2023-2027)

PUBLICATIONS

- Improving KAN with CDF Normalisation to Quantiles. arXiv:2507.13393, 2025. Main author; co-authored with Dr. Jarosław Duda.

I also write technical blogs about AI. <https://medium.com/@jakubstrawadev>