

FILIP MAZURKIEWICZ

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SKILLS

Technologies: Python, SQL, GenAI, FastAPI, Flask, Streamlit, Qdrant, ELK Stack (Elasticsearch, Kibana, Logstash), MySQL, Git, OpenCV, PyTorch, TensorFlow, Power BI, Jira, Power Automate, NLP, CV; Docker, Kubernetes, Claude Code, Cursor, basic cloud computing (GCP, AWS) and Linux

Languages: English B2, German A1/A2

Methodologies: Clean Code, Clean Architecture, CI/CD, Agile, Scrum

PROFESSIONAL EXPERIENCE

PKO Bank Polski

Warsaw

ML/AI Engineer

11.2022 – Present, full-time

- **GenAI, LLM & RAG** Deploy generative AI (GenAI) solutions built on large language models (LLMs). Design RAG pipelines that enrich search results with knowledge retrieved from a document base, and develop hybrid solutions combining local LLMs, Elasticsearch, retrievers, and rerankers.
- **NLP Models** Train NLP models (fastText, SBERT, RoBERTa) that improve intent recognition in chatbots and voicebots, and integrate GenAI capabilities to build hybrid bots (GenAI + RAG).
- **Semantic Search** Responsible for the development and maintenance of the semantic search engine - result relevance, solution scalability, and alignment with business requirements. Deliver new features and oversee the stability of the production environment, including the integration of new data sources, filtering mechanisms, user feedback collection, and baseline reporting in Power BI.
- **Training & Knowledge Transfer** Designed and delivered a training program on prompt engineering and GenAI for approximately 10,000 bank employees.

Żabka Polska

Poznań

Data Analyst

12.2021 – 11.2022, full-time

- Built and maintained interactive reports and dashboards in Power BI using data from Snowflake.
- Automated the franchisee offboarding process by implementing a workflow in Python and Power Automate, reducing manual workload and the number of tickets in Jira.
- Handled querying, aggregation, and analysis of large data volumes in Snowflake, ensuring data integrity and preparing datasets for reporting and strategic analysis.

Instytut Informatyki Gospodarczej (I2G)

Poznań

Junior Data Analyst / Junior Data Scientist

11.2018 – 11.2021, contract

- Designed computer vision models for person detection and recognition in images.
- Carried out natural language processing (NLP) tasks on unstructured text data, including: building multi-class classification models for automatic product categorization, implementing named entity recognition (NER) to extract structured information (names, dates, locations), and topic modeling to identify trends in large text corpora.

Katedra Informatyki Ekonomicznej UEP

Poznań

Intern

08.2018 – 09.2018 and 07.2019 – 09.2019, contract

- Designed and implemented two deep-learning-based image recognition systems (Python, TensorFlow, Keras): a car brand classifier and a facial emotion classifier (including happiness, sadness, anger, fear, and neutral).
- Designed and optimized convolutional neural network architectures (ResNet, Inception, VGG), applying transfer learning, data augmentation, and regularization to achieve high classification accuracy.
- Deployed the final emotion-recognition model in a lightweight application enabling real-time analysis.

EDUCATION

Poznań University of Economics and Business

Poznań

M.Sc. in Computer Science and Econometrics

Oct 2020 – Jul 2022

Thesis: Recognition of volleyball activities using recurrent neural networks.

Thesis: Recognition of basic emotions using convolutional neural networks.

TRAINING & SPEAKING ENGAGEMENTS

Umiejętności Jutra (Skills of Tomorrow): AI | Google & SGH: Completed a five-week, nationwide training program run by Google and the Warsaw School of Economics (SGH), preparing participants to implement AI within their organization and share that knowledge internally; covered prompt engineering fundamentals and tools such as NotebookLM, Vertex AI, and ElevenLabs in business applications.

AI_devs 3 – AGENTS: Completed a five-week, intensive course on building production-grade GenAI solutions (created by A. Gospodarczyk, J. Mrugalski, and M. Chrobok), covering LLM APIs, prompt design, evaluation and observability, multimodal processing, and RAG with vector databases.

AI_devs 4: Completed the latest edition of the course, extended with the Model Context Protocol (MCP), advanced RAG, and deploying AI agents to production.

DataWorkshop – Practical LLM and Software 3.0 (Agentic AI): Completed two five-week DataWorkshop courses on building RAG systems and AI agents (ReAct patterns, memory architecture, quality evaluation), along with several smaller AI-related courses "DWthons" provided by DataWorkshop.

Data Science Summit 2023: Presented the bank's approach to RAG and AI in business.

AI in Business Workshop (Rybnik): Led a workshop for the local community covering the basics of working with ChatGPT, ElevenLabs, NotebookLM, Midjourney, and Suno.

PERSONAL PROJECTS

Coach AI – Multi-Persona Coaching Assistant | fmazurkiewicz.dev

- Designing and building an application where users configure their own "AI coaches" (personal trainer, dietitian, sports psychologist, badminton coach) with conversation memory and access to their results history.

Teacher Helper – Tool for Teachers | fmazurkiewicz.dev

- Identified a recurring, time-consuming problem for teachers – preparing lesson materials – and designing a tool that streamlines it: an LLM chat, presentation and graphics generation, and educational song creation (Suno/Lyria).
- Focused on a simple, product-minded interface that turns a lesson idea into finished materials without manually assembling content from multiple tools.

POZ Patient Simulator | [GitHub](https://github.com)

- Developed a training application for physicians and medical students simulating a patient interview in Primary Care (POZ); interface built with Python 3.11+ and Streamlit.
- Integrated OpenRouter (Claude, GPT, and Llama model families) to generate context-aware patient responses, along with Whisper-compatible audio transcription for live conversation analysis.

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