

Alexander Moshchev

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PROFILE

AI Engineer building production LLM systems in a banking environment. I design end-to-end pipelines, from model reasoning and evaluation to backend infrastructure and deployment. Focused on reliability and real-world constraints. I also build and operate the underlying infrastructure, including async processing systems, deployments, and monitoring.

WORK EXPERIENCE

C24 Bank GmbH **Frankfurt/Main**
Junior AI Engineer **10/2025 – Present**

- Rebuilt a production AML risk scoring system from scratch, using LLM-based analysis of transactional patterns to assign risk levels, improving prediction accuracy 5× vs legacy baseline.
- Built an AI agent for AML case processing (LangGraph + MCP, ~20 tools) that retrieves customer context across internal systems and generates structured compliance reports used in production.
- Built an evaluation framework (Langfuse, labeled datasets, replayable test cases) to measure model performance and enable reliable iteration under regulatory constraints.
- Built and operated production infrastructure for AML systems (FastAPI + async workers), handling ~1k daily requests across services, owning deployments, monitoring, and system reliability.

FS Impact Finance **Frankfurt/Main**
Working Student **03/2025 – 09/2025**

- Built and deployed a time-triggered reporting pipeline using Azure Functions, automating recurring data collection and transformation workflows.

Exaloan AG **Frankfurt/Main**
Working Student in Data Science **03/2024 – 08/2024**

- Developed a RAG-pipeline for analyzing unstructured ESG reports with 95% accuracy on 50 reports.
- Built a PDF-to-Excel process that surpasses Microsoft Document AI in accuracy; processed hybrid PDFs with text and scanned images into complete structured tables. Achieved 88% accuracy on the custom dataset.

Schufa Holding AG **Wiesbaden**
Working Student/Intern in Business Data & Analytics **04/2022 – 12/2023**

- Trained a BERT model to identify business purpose sentences in registration documents with 93% accuracy; enhanced text analysis with keyword matching and NLP checks.
- Developed a multiprocessing crawler that feeds a company list into Google Search, harvests candidate URLs, downloads PDFs, and auto-verifies ESG reports via imprint-matching and PDF metadata.

EDUCATION

Frankfurt School of Finance & Management **Frankfurt/Main**
M.Sc. Applied Data Science **08/2023 – 08/2025**

Grade: 1.5 out of 5.0

Hochschule RheinMain **Wiesbaden**
B.Sc. Digital Business Management **10/2020 – 10/2023**

Grade: 2.1 out of 5.0

Gymnasium 104 **Yekaterinburg, Russia**
Grade: 1.8 out of 5.0 **09/2007 – 06/2018**

PROJECTS

Excel Add-In for PDF-to-XLSX Conversion – [Demo](#)

Part of the Frankfurt School Entrepreneurship Center Incubator program

- Developed a React/TypeScript Excel Add-In (Fluent UI) for uploading PDFs, reviewing AI-extracted tables, editing values, and writing cleaned data back to Excel.
- Exposed the conversion engine as a Docker-containerized FastAPI service secured with JWT authentication, backed by PostgreSQL for persistence, Redis for caching, and Celery with RabbitMQ for async task queueing.

LLM-Powered Image Classifier – [Repo](#)

- Built a Flask microservice that parses raw HTML, extracts image links, and classifies them with a 2B vision-LLM; end-to-end async pipeline uses request batching and a background queue for CPU inference.
- Containerized the app with Docker and added health checks. Bench-tested 7B / 13B self-hosted models on Azure using SGLang (an inference framework for serving LLMs efficiently) to compare accuracy / latency trade-offs.

SKILLS

Languages: Russian (Native), German (Advanced), English (Advanced)

Core: Python, FastAPI, SQL, Docker, LLM systems (LangGraph, Langfuse, MCP, RAG)

ML/NLP: PyTorch, Transformers, scikit-learn, spaCy

Infrastructure: Azure, GCP, PostgreSQL, MySQL, Redis, GitHub Actions, Bamboo, Linux

Frontend: TypeScript, React

Interests: Ski, Chess (1600 on chess.com, top 3%), Formula 1