

Yusif Abasov

AI Engineer

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Profile

Result-driven AI Engineer specializing in generative and agentic AI with end-to-end solution development experience. Strong interest in classical machine learning and computer vision. Focused on enabling businesses to automate workflows and apply AI efficiently and cost-effectively.

Work Experience

AI Engineer, RGY Digital 09/2025 – Present
Estonia - Freelance

- **Intelligent Data Extraction:** Decreased workload by 90% by leveraging Vision-Language Models (VLLMs) and advanced OCR techniques to extract and structure data from complex PDFs and image-based documents.
- **Automated Validation Systems:** Designing and implementing rule-based and cross-document verification frameworks for PDF content consistency and compliance checking.
- **Agentic AI Pipelines:** Developing autonomous, multi-agent AI systems to enhance customer service workflows through context-aware reasoning and task orchestration. Achieved 40% faster TTFM (Time-to-first-message) by improving retrieval process.
- **RAG Pipeline Optimization:** Improving Retrieval-Augmented Generation (RAG) architectures for higher accuracy, faster response times, and more efficient retrieval mechanisms.

Tech Stack: Python, LangChain, LangGraph, VLMs

ML Engineer, Revisto 03/2025 – 09/2025
USA - contract

- Leveraged NLP techniques and large-language models (LLMs) to automate Medical / Legal / Regulatory (MLR) content reviews.
- Enforced Clean Code principles throughout the codebase to improve readability, testability, and maintainability.
- Achieved 87% less human interaction by orchestrated the validation pipeline with Directed Acyclic Graphs (DAGs) for fully systemized, traceable workflows for pdf documents.
- Integrated OCR to reliably extract text from scanned PDF images for downstream processing.
- Boosted MLR review throughput by adding streamlined validation algorithms, significantly reducing manual turnaround time.
- Designed and applied AI based claim extraction methodologies for healthcare documents.

Tech stack: Python, AWS (S3, Bedrock), GitLab CLI, Langchain, Pymupdf, VLMs, OCR

AI Engineer, VILICOS

08/2024 – 11/2024

Estonia - freelance

- Designed and implemented a scalable AI-driven data storage solution by crawling websites and parsing PDF documents. Built relational databases (PostgreSQL) and vector stores (Redis) to manage and structure data tailored to each company's user needs.
- Developed and deployed RESTful APIs for seamless communication between microservices using FastAPI and Celery, ensuring efficient task distribution and streamlined architecture performance.
- Created and deployed an AI-powered conversational chatbot to deliver personalized data insights, enhancing user engagement and customer experience.
- Integrated Langchain to build robust AI workflows, enabling efficient communication between FastAPI and Redis for high-performance data retrieval and interaction.
- Containerized the entire infrastructure using Docker, ensuring consistent deployment, scalability, and cross-environment compatibility.
- Utilized Apify for automated web crawling and data extraction, guaranteeing up-to-date and reliable datasets for AI-driven applications.

Tech Stack: Langchain, FastAPI, Redis, PostgreSQL, Docker, Celery, Apify, Chroma

Data Scientist, Pasha Bank

01/2022 – 04/2025

Baku, Azerbaijan

- Successfully built and deployed internal and external chatbots based on RAG (Retrieval-Augmented Generation) architecture, significantly improving communication and customer interaction.
- Decreased call center workload by 20% in the initial stage of external chatbot deployment, streamlining customer service processes.
- Increased Generative AI awareness across the company by conducting comprehensive demos, showcasing its potential applications in various departments.
- Applied advanced NLP techniques to improve data quality within Oracle DWH databases, enhancing data integrity and business insights.
- Designed and implemented AI-based SQL agents tailored for business teams, optimizing workflow automation and decision-making.
- Advised and actively contributed to the data collection and preparation process for fine-tuning Large Language Models (LLMs), ensuring high-quality input data.
- Tech Stack: Python, Langchain, LangGraph, Huggingface Transformers, Docker, Git, Redis, FastAPI, VectorStores

Previous Contributions:

- Developed and deployed machine learning models for the sales team, enabling data-driven strategies and predictive insights.
- Increased sales conversion rates by leveraging AI-driven decision-making processes.
- Achieved a fully automated, end-to-end machine learning workflow for the sales project, increasing operational efficiency.
- Tech Stack: Python, SQL, Dataiku, Git/Github, Scikit-learn

Education

B.Sc. Economics, BDU

2016 – 2020

Azerbaijan

MSc Quantitative Economics, UNEC (dropout)

2021

Technologies and Programming Languages

Programming Languages

Python

Architecture and code quality

RAG (Retrieval Augmented Generation),
MCP (Model Context Protocol), Software Design
Patterns

Tools & Frameworks

LangChain, LangGraph, Vectorstores (Chroma, Faiss,
Qdrant), Scikit-learn, FastAPI, Docker, Celery, Redis,
PostgreSQL, OracleDB, Git, Github, Transformers