

# **Yusif Abasov**

## AI Engineer

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## Profile

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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

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### **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

<b>AI Engineer, VILCOS</b>	08/2024 – 11/2024 Estonia - freelance
<ul style="list-style-type: none"> <li>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.</li> <li>Developed and deployed RESTful APIs for seamless communication between microservices using FastAPI and Celery, ensuring efficient task distribution and streamlined architecture performance.</li> <li>Created and deployed an AI-powered conversational chatbot to deliver personalized data insights, enhancing user engagement and customer experience.</li> <li>Integrated Langchain to build robust AI workflows, enabling efficient communication between FastAPI and Redis for high-performance data retrieval and interaction.</li> <li>Containerized the entire infrastructure using Docker, ensuring consistent deployment, scalability, and cross-environment compatibility.</li> <li>Utilized Apify for automated web crawling and data extraction, guaranteeing up-to-date and reliable datasets for AI-driven applications.</li> </ul>	
Tech Stack: Langchain, FastAPI, Redis, PostgreSQL, Docker, Celery, Apify, Chroma	
<b>Data Scientist, Pasha Bank</b>	01/2022 – 04/2025 Baku, Azerbaijan
<ul style="list-style-type: none"> <li>Successfully built and deployed internal and external chatbots based on RAG (Retrieval-Augmented Generation) architecture, significantly improving communication and customer interaction.</li> <li>Decreased call center workload by 20% in the initial stage of external chatbot deployment, streamlining customer service processes.</li> <li>Increased Generative AI awareness across the company by conducting comprehensive demos, showcasing its potential applications in various departments.</li> <li>Applied advanced NLP techniques to improve data quality within Oracle DWH databases, enhancing data integrity and business insights.</li> <li>Designed and implemented AI-based SQL agents tailored for business teams, optimizing workflow automation and decision-making.</li> <li>Advised and actively contributed to the data collection and preparation process for fine-tuning Large Language Models (LLMs), ensuring high-quality input data.</li> <li>Tech Stack: Python, Langchain, LangGraph, Huggingface Transformers, Docker, Git, Redis, FastAPI, VectorStores</li> </ul>	
Previous Contributions:	
<ul style="list-style-type: none"> <li>Developed and deployed machine learning models for the sales team, enabling data-driven strategies and predictive insights.</li> <li>Increased sales conversion rates by leveraging AI-driven decision-making processes.</li> <li>Achieved a fully automated, end-to-end machine learning workflow for the sales project, increasing operational efficiency.</li> <li>Tech Stack: Python, SQL, Dataiku, Git/Github, Scikit-learn</li> </ul>	

## **Education**

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<b>B.Sc. Economics, BDU</b>	2016 – 2020 Azerbaijan
<b>MSc Quantitative Economics, UNEC</b> (dropout)	2021

## **Technologies and Programming Languages**

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### **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