

Abasov Yusif

DATA SCIENTIST ·

Baku, Azerbaijan

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Summary

Highly skilled Data Scientist with a strong background in building and optimizing business models, including recommendation systems and customer satisfaction analysis. Currently focused on cutting-edge generative AI projects, leveraging extensive experience in Python to develop and deploy AI agents. Passionate about continuous learning, I quickly adapt to new technologies and industry trends, always eager to expand my knowledge and skill set. With a keen ability to solve complex problems, I thrive in dynamic environments where innovation is key to success.

Work Experience

PASHA Bank

Baku, Azerbaijan

DATA SCIENTIST | MACHINE LEARNING ENGINEER

Jan 2022 - current

- 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, Huggingface Transformers, Pytorch, Docker, Git, Redis, FastAPI
- *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

VILICOS (startup)

Baku, Azerbaijan

AI ENGINEER

July 2024 - Nov 2024

- 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.

- Data Acquisition & Integration: Collected and integrated data from diverse sources, including relational and non-relational databases, web APIs, and third-party platforms. Ensured data integrity, consistency, and scalability across all datasets.
- Data Cleaning & Preprocessing: Performed data wrangling and preprocessing tasks, including handling missing values, removing inconsistencies, and normalizing datasets to prepare them for analysis.
- Exploratory Data Analysis (EDA): Conducted initial data exploration to identify patterns, anomalies, and key trends, laying the foundation for in-depth analysis and modeling.
- Data Analysis: Utilized statistical and machine learning techniques to analyze complex datasets, extract meaningful insights, and address specific business questions.
- Data Visualization: Designed and developed interactive dashboards and visualizations using tools such as Tableau, Power BI, or Matplotlib to effectively communicate insights to stakeholders.
- Reporting & Strategic Insights: Created comprehensive reports and presentations that translated analytical findings into actionable recommendations, aligning insights with organizational goals and business strategies.

Education

Baku State University

Baku, Azerbaijan

B.S. IN ECONOMICS

Sep 2016 – Jun 2020

Azerbaijan State University of Economics

Baku, Azerbaijan

M.SC. IN QUANTITATIVE ECONOMICS

Sep 2021 – Dropped out

Technical Skills

Programming Languages	Python
	Databases: MySQL, Postgres, OracleSQL, Redis
	Cloud & Infrastructure: AWS, Docker
	Frameworks: FastAPI, Flask, Celery
Tech Stack	Libraries: Langchain, LangGraph, Pytorch, Huggingface Transformers, Sklearn
	LLMs: Openai models, Cohere models, Llama & Ollama, Whisper STT, Facebook MMS TTS
	Tools: Git, GitHub, Redis, Vectorstores,
Architecture & Code Quality	Retrieval Augmented Generation (RAG), Clean Architecture, Clean Code, Microservices Architecture