



Huseyn Abdullayev

Data Scientist & ML Engineer

With several years of experience in data science and engineering, specializing in machine learning in the automotive and consulting industries, I can develop MLOps systems that automate machine learning workflows. My expertise in ML algorithms and optimization effectively contributes to cost reduction and time savings.



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<https://huseyna28.github.io/portfolio/>

Professional Experience:

09/2023 - Present

Junior Data Consultant

It-novum GmbH

- Used Snowflake, Docker, GitHub Actions, and Jenkins to create end-to-end workflows that increased the efficiency of ML model development and deployment, while integrating MLflow for experiment tracking and model management to ensure reproducibility and transparency.
- Developed a dashboard in ThingsBoard that allows customers to track data sets and significantly improves data monitoring.
- Participated in a project to build an MLOps infrastructure for a client, including setting up a data cleaning pipeline and infrastructure for the data science team for training and monitoring models in Snowflake.
- Leveraged Snowpark to automate data loading and preprocessing in Snowflake, optimizing data processing and increasing scalability for large datasets, and integrated AWS services like S3 and Snowflake to provide scalable data storage and processing for extensive machine learning tasks. Deployed ML models with Docker to ensure reliable and reproducible deployments across development, testing, and production stages.

03/2023 - 08/2023

Data Scientist

AUDI AG

- Supported the modernization of the car manufacturing process by transferring production logic from Excel to KNIME data pipelines, reducing manual effort and saving 20% of preparation time per car.
- Developed an optimization algorithm for the supply chain department, improving resource allocation and increasing the efficiency of the production line by 25%.
- Created an XGBoost ML model for predicting engine resilience, analyzing key factors, and increasing prediction accuracy by 92%.

11/2021 - 03/2023

Big Data Analyst

SVA System Vertrieb Alexander

- Developed a LightGBM model on Azure Synapse Analytics with an R-squared accuracy of 0.92 to predict the number of bicycles per station, implemented on Azure ML.
- Achieved a 95% detection rate with minimal false positives in analyzing customer churn, leading to significant cost savings.
- Built a data pipeline for a terabyte-sized dataset using Azure Databricks and Azure SQL for data cleaning and storage, and Power BI for visualizations, increasing the reliability and accessibility of data by 50%.
- Participated in a project to create a customer segmentation analysis with RFM metrics in Azure, visualized with Power BI, helping the client identify and engage high-value customers, improving customer retention rates by 10%.

02/2020 - 11/2021

Data Analyst

Geschirr Box Kassel

- Analyzed customer data with Python and created a visualization dashboard that helped define target groups, enhancing marketing strategies.

Education:

03/2019-06/2023

Master of Science in Economic Behaviour and Governance

University of Kassel

- Field: Empirical Analysis in Economics
- Focus: Business & Finance Consulting
- Grade: 2.3

10/2010-07/2014

Bachelor of Science in International Economics

Nakhchivan State University

- Field: Economics Analytics
- Focus: Economic & Financial Analysis
- Grade: 1.9

Further Education

04/2024-07/2024

Mlops-zoomcamp, Data TalksClub

- Inhalt: MLflow, AWS, Mage-ai, Docker, Evidently

07/2023 -01/2023

Mlops Master Bootcamp. VBO

- Inhalt: Docker, Jenkins, MLflow, K8, FastAPI

07/2022 - 01/2023

Could Computing, The University of Texas at Austin

- Inhalt: AWS, Azure, GCP AWS

04/2022 - 07/2023

Could Technical Bootcamp, VBO

- Inhalt: AWS Services, Linux, Cloud Network

04/2022 - 09/2022

Data Science Program, Practicum USA

- Inhalt: Linear Algebra, Time Series, Computer Vision, and Unsupervised Learning

01/2022 - 05/2022

Data Science and Machine Learning Bootcamp, VBO

- Inhalt: Python, SQL, Machine Learning models Advanced Big

05/2022 - 09/2022

Data and Data Science at Scale Bootcamp VBO

- Inhalt: Machine Learning in Big Data, Docker & Kubernetes, Pykafka, Pyspark, Linux, Git, Hadoop, CI/CD and Jenkins, MLflow, Airflow, MongoDB

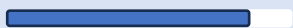
Projects

- **Snowflake MLOps:** CI/CD, Github, Docker, FastAPI, Snowflake, LinearRegression | [GitHub](#).
- **AwsMlopsFaceApp** Grafana, Snowflake , Docker, AWS, Snowflake, Railway APP | [GitHub](#).
- **AdPredictor ML-deployment:** CI/CD, Github, Docker, FastAPI, ML Model | [GitHub](#).
- **Sentiment Analysis with Deep Learning and MLflow:** Python,TensorFlow, Keras, FastAPI, MLflow, Docker, MinIO, MySQL, Conda | [GitHub](#).
- **ML algorithms:** Regression Models, KNN, Decision Trees, Unsupervised Learning, Gradient Boosting Machine and more | [GitHub](#).
- **Deploying ML on Docker&Kubernetes:** Regression Model, FastAPI, Docker, Kubernetes, Minikube | [GitHub](#).
- **RFM Customer Segmentation:** Python, Pandas, Scikit-Learn, RFM | [GitHub](#).
- **Time Series Analysis:** Python, Prophet, XGBoost, Scikit-Learn, Statsmodels | [GitHub](#).

Medium articles

- **Automated ML Training and Deployment Using GitHub:** CI/CD, Docker, FastAPI | [Medium](#).
- **End-to-End Machine Learning (ML) Lifecycle :** ML Pipeline, Mage AI, CI/CD, Testing | [Medium](#).
- **The Role of Data Science in Sustainability Analysis:** ML algorithms | [Medium](#).
- **Experiment Tracking with MLflow:** Python, MLflow | [Medium](#).
- **Is Big Data Dead?!:** Relevance of big data vs. small data | [Medium](#).

German



English



Azerbaijani



Turkish



Machine Learning Engineer



MLflow, Azure ML, Pyspark, FastAPI, Snowflake, Docker, ETL, CI-CD, Model Deployment& Monitoring, Ochestration, Experiemnent-tracking

Data Science



Python, Pyspark, KNIME, SQL, Deep Learning, Mode Evaluation, ML models, Linear Algebra, Statistics and Probability, Calculus

Big Data Analyst



EDA, KPIs, Power BI, Pyspark, NoSQL, SQL, A/B tests

Certifications

- SnowPro® Advanced Data Scientist
- SnowPro Core Certification
- Microsoft Azure Data Scientist (DP -100)
- Getting Started with Data Science (SAC)
- Basic Proficiency in KNIME Analytics Platform
- Advanced Proficiency in KNIME Analytics Platform
- Data Engineering on Microsoft Azure (DP-203)
- Microsoft Azure Fundamentals (AZ -900)
- Microsoft Azure Data Fundamentals (DP-900)
- AWS Cloud Technical
- Databricks Lakehouse Fundamentals
- British Petroleum rewarded "Best Worker of the Year" in 2017