

Shamkhal Hajiyeu

Data Scientist & ML Engineer in Business | Customer Analytics

 hajiyeu.shamkhal@gmail.com |  +48576086031 |  Wroclaw, Poland |  [ShamkhalHajiyeu](#) |  [ShamkhalHajiyeu](#)

Experienced **Data Scientist** with over **4 years** of expertise in **Data Science, Machine Learning**, and **Advanced Data Analytics**, specializing in transforming complex datasets into actionable insights to drive business impact.

Achievements

- **Boosted Customer Retention Efforts:** Spearheaded the creation of an **Azure-based churn classification model**, integrated with **PowerBI**, empowering **sales teams** with **real-time retention insights** that fostered proactive engagement with **high-risk customers**.
- **Automated Sales Forecasting for Real-Time Insights:** Developed **Python-powered forecasting models** that seamlessly updated **PowerBI via REST API**, ensuring **decision-makers** had immediate access to **up-to-date sales projections** and reducing **manual reporting efforts**.
- **Streamlined Data Integration:** Built a **custom Python framework** to connect **PowerBI with Azure Data Lake**, enhancing **analytics efficiency** by enabling faster, direct **data access** for high-impact reports and improving **data consistency across platforms**.

Professional Experience

01/2023 – present Wroclaw, Poland	Data Science Specialist in Align Technology <ul style="list-style-type: none">• Developed and integrated an Azure-based customer churn classification model into live Power BI reports, providing sales teams with real-time insights to reduce customer attrition.• Built monthly sales forecasting models and automated dynamic Power BI updates using Python and REST APIs.• Created a Python framework to integrate Power BI and Azure Data Lake via REST APIs, leveraging Polars for KPI calculations and optimizing processing efficiency with chunking and multiprocessing.• Enhanced Power BI analytics by integrating Large Language Models (LLMs) and LangChain, enabling natural language queries, automated summaries, and proactive insights generation.
04/2021 – 12/2022 Wroclaw, Poland	Data Scientist in CRISIL Irevna Poland Sp z o.o. <ul style="list-style-type: none">• Developed and deployed a user-interactive Dash App using Python, Docker, and MySQL to calculate portfolio risk rates and optimize asset allocation, providing clients with advanced financial analytics tools.• Led monthly updates and maintenance of a MySQL Server database, optimizing ETL processes with Python libraries (Luigi, Pandas, Numpy) to ensure data accuracy, reliability, and timely reporting.

Education

10/2021 – 09/2023 Wroclaw, Poland	Ph.D. in Computer Science and Mathematics at University of Wroclaw (Incomplete): Relevant Courses: Machine Learning, Deep Learning, NLP, Optimization
10/2019 – 07/2021 Warsaw, Poland	Master of Arts in Data Science and Business Analytics at University of Warsaw: Relevant Courses: Algorithms & Data Structures, Python & R Programming, Big Data, Databases: MySQL, NoSQL, Machine Learning & Deep Learning
09/2014 – 07/2019 Baku, Azerbaijan	Bachelor of Science in Economics at ADA University: Relevant Courses: Economics, Statistics, Econometrics, Game Theory & Decision Systems

Skills

Programming Languages & other Tools	Python (Pandas, Polars, Numpy, Pytorch, Tensorflow, Multiprocessing, REST Api), SQL, R Programming, GIT, Bash
Machine Learning & AI	Machine Learning, Deep Learning, NLP, LLMs, Time Series Forecasting
Big Data	PySpark, Hadoop, Azure ML, Azure Databricks
Project & Collaboration	Agile Methodologies, JIRA, Confluence, Asana, Problem Solving, Teamwork, Mentoring, Multitasking, Curiosity, and Critical Thinking.
Languages	English (Fluent), Azerbaijani (Native), Turkish (Fluent), German (Basic - Learning)

Certificates

- Microsoft Certified: **Azure Data Scientist Associate (DP-100)**
- Microsoft Certified: **AZ-900, DP-900, AI-900**