

Arzuman Abbasov

Data Scientist

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Summary

Data Science graduate student with professional hands-on experience in Python-based data analysis, machine learning, and data quality validation. Strong foundation in statistical diagnostics, anomaly detection, and large-scale dataset analysis. Passionate about applying data science to sustainability, climate risk, and research-driven environments

Experience

Data Scientist

June 2024 – July 2025

Kapital Bank — Baku, Azerbaijan

- Built the bank's first ML-based fraud detection model, reducing false positives by **40%**.
- Developed ATM cash replenishment route optimization system for 1,000+ ATMs.
- Engineered an NLP-powered customer service agent serving **5M+ users**.

Data Scientist

Nov 2022 – Mar 2024

BIRainy — Baku, Azerbaijan

- Automated financial reporting dashboards in Power BI, reducing manual effort by **60%**.
- Performed large-scale analysis on 300M+ rows of data.
- Built OCR pipelines to digitize high-volume documents efficiently.

Education

MSc in Data Science

2025 - 2027

Óbuda University — Budapest, Hungary

- Focus on machine learning, statistical analysis, data pipelines, and reproducible research.
- Authored a TDK research paper: “*Nyílt forráskódú nagy nyelvi modellek összehasonlítása az azerbajdzsáni nyelvhez: Az azerbajdzsáni LLM ranglista*” (Fall 2025 semester), comparing open-source Azerbaijani language models and establishing a transparent benchmark.

B.Sc. in Information Technology

2021 - 2025

Azerbaijan State Oil and Industry University — GPA: 86/100

- Active in Google DSC, Innovation Club, Debate Club
- Won **8 hackathons** with AI solutions in finance, education, and e-commerce

Technical Skills

Programming: Python, SQL

Data Science: Pandas, NumPy, SciPy, Scikit-learn, EDA, Statistical Diagnostics

ML Techniques: Anomaly Detection, Regression, Classification, Model Evaluation, Natural Language Processing, Large Language Models, AI Agents

Data Quality & QA: Validation Rules, Reproducibility, Data Consistency Checks

Tools: Jupyter Notebooks, Power BI, Git, Linux

Cloud: Dataiku DSS

Languages

- Azerbaijani — Native
- English — Professional Communication (IELTS 7.5)
- Turkish — Native

Certifications

Large Language Model Operations (LLMOps) — Pragmatic AI Labs (2025)

AI Engineering Professional Certificate — IBM (2023)

Machine Learning Specialization — DeepLearningAI (2023)

Hackathon Achievements (Top 1–3)

1st Place — Perplexity AI Global Hackathon (USA) *2025*

- Built an AI platform analyzing global public sentiment across **192 countries** using the Perplexity API.
- Developed an interactive world dashboard providing real-time insights for journalists, analysts, and researchers.
- Applied large-scale data aggregation, validation, and visualization techniques for global datasets.

1st Place — Teknofest Türkiye (LLM App Development) *2024*

- Developed an LLM-powered accessibility system converting learning materials into simplified text, audio, and visual formats.
- Focused on inclusive design and AI-driven content transformation for STEM education.

1st Place — Heydar Aliyev 100 Engineering Hackathon *2024*

- Designed **LeafAI**, a computer vision model for plant disease detection, and **PlantGPT**, a plant-care assistant chatbot.
- Built a **geospatial visualization dashboard** to track disease spread from user-uploaded images.

2nd Place — PASHA Hackathon 3.0 (800+ participants) *2023*

- Created an AI-driven shopping assistant with 3D product visualization and AR-based try-on features.
- Delivered a fully functional MVP within 48 hours, ranking 2nd among 46 teams.

3rd Place — Google AI Hackathon *2024*

- Developed an EdTech platform using generative AI to transform static study materials into personalized learning experiences.
- Increased learner engagement through interactive visual and audio content generation.