# Aygul Bayramova Pirmatova, Data Scientist

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**LINKS**

LinkedIn

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**PROFILE**

Data Scientist with 4+ years delivering ML in banking across credit risk, digital channels, and customer analytics. Led 6+ person teams, shipped NLP/ASR pipelines and segmentation models into production, and partnered with Product/Tech to drive measurable impact (e.g., +15% data-driven sales uplift; 20% chat automation). Strong Python and engineering skills.

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**EMPLOYMENT HISTORY**

### Advanced Analytics Function Lead, Unibank CB OJSC

Apr 2024 — Present · Baku

- Manage 6+ DS/Analysts; prioritize roadmap and delivery across credit risk, digital banking, customer behavior.
- Scaled data-driven sales strategies (+15% improvement); instituted model monitoring & A/B testing.
- Partnered with Product/Engineering to embed models into customer journeys (APIs, dashboards).

### Senior Data Scientist, Unibank CB OJSC

Sep 2022 — Mar 2024 · Baku

- Built Behavioral Analysis & Segmentation: EDA + clustering to categorize users by purchase and service interactions.
- Delivered end-to-end NLP: intent classification, language detection, sentiment; enabled ~20% automation in Online Consultation Chat. Metrics: intent F1 ↑ to ~89%.
- Developed Speech-to-Text using Kaldi (TDNN, CNN); added source separation + speaker diarization in preprocessing.Metrics: ASR WER ↓ to ~11%,

### Data Scientist, Unibank CB OJSC

Oct 2020 — Aug 2022 · Baku

- Implemented NLP features for banking chatbot; improved response relevance via sentiment & language identification models.
- Created structured project documentation that enabled faster onboarding and streamlined cross-team communication.

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**TECHNICAL SKILLS**

- **Languages & Data Tools:** Python (Pandas, NumPy, Dask, Matplotlib, Seaborn), R, MATLAB, SQL (Oracle, PL/SQL), NoSQL (MongoDB), PySpark, Git
- **ML/AI:** scikit-learn, TensorFlow, Keras, PyTorch, Optuna, AutoFeat; supervised/unsupervised learning, deep learning, A/B testing, model deployment, model validation, production optimization
- **MLOps/Serving:** Docker, Airflow, MLflow, FastAPI; monitoring with Grafana, Prometheus
- **NLP:** Text classification, sentiment, LLMs (BERT, GPT), embeddings (Word2Vec, fastText, GloVe), LangChain, Pinecone
- **Speech Processing/ASR:** Kaldi, Asteroid, librosa, pydub, ffmpeg, WebRTC-VAD; ASR, source separation, diarization

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**EDUCATION**

### M.Sc., Computer Science, The George Washington University

Sep 2020 — Jun 2022 · Washington, D.C.

- Dual degree program, GPA: 3.74 (out of 4)
- Key Focus: ML, NLP, Software Engineering

### M.Sc., Data Analytics, ADA University

Sep 2020 — Jun 2022 · Baku

- Dual degree program, GPA: 3.76 (out of 4)
- Key Focus: Big Data, Applied Data Analytics, Academic Research

### B.Sc., Computer Science, Baku State University

Sep 2016 — Jun 2020 · Baku

- Graduated with High Honors | GPA: 97,11 (out of 100)

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**PUBLICATIONS**

Rustamov, S.; Bayramova, A.; Alasgarov, E. Development of Dialogue Management System for Banking Services. *Appl. Sci.* **2021**, *11*, 10995. https://doi.org/10.3390/app112210995

| SOFT SKILLS | Communication Skills | | Leadership Skills | |
| --- | --- | --- | --- | --- |
| | Strong Analytical Skills | | Ability to Work in a Team | |
| | Adaptability | | Effective Time Management | |

| LANGUAGES | Azerbaijani | Native speaker | Russian | Highly proficient |
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| | English | Highly proficient | Turkish | Very good command |

AWARDS

- Winner of "Student Bursary Program 2018", Azercell Telecom LLC
- Second place in the IT Olympiad among students of SABAH groups
- Third place in the Mathematics Olympiad among students of SABAH groups
- First place in the Olympiad as part of the "İstedadların hazırlığı laboratoriyası" project of the Ministry of Youth and Sports of Azerbaijan Republic (in 2015)

HOBBIES

Playing the violin, reading books, hiking, sports