

Umid Suleymanov

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EXPERIENCE

Senior Data Scientist

E-GOV Development Center / Baku, AZ

June 2022 – Present

- Developed **sentiment analysis** model for measuring user satisfaction, which reduced 12 hours per week of manual labeling and analysis time.
- Built a machine learning model to **predict customer waiting time** and notify users in the queue leading to a reduction of 16% in queue-related complaints.
- Improved the process speed by 32% by training a machine learning model to detect and anonymize certain special nouns. Modeled the problem as a **named entity recognition task**.

Leading Data Scientist

E-GOV Development Center / Baku, AZ

November 2019 – June 2022

- Generated **pretrained word embeddings** and applied them to sentiment analysis. Worked with a text corpus of 164 million tokens. Improved the accuracy of previous model by 4%.
- Strategized full **machine learning lifecycle**: predictive models, development, new ideas inducing, proof of concepts, implementation in the production environment, monitoring.
- Increased the click-through rate by 6% by developing **language-specific text analyzers** in Elasticsearch search engine.

Data Engineer

E-GOV Development Center / Baku, AZ

July 2018 – November 2019

- Identified ways to improve **data reliability, efficiency, and quality**. Mainly structured and NLP datasets.
- Implemented data acquisition, preprocessing, transformation, and storage routines.

Research Assistant

Center for Data Analytics and Research, ADA University / Baku, AZ

December 2017 – May 2018

- Worked on the **text classification** project and automated analysis of news articles, which involved training machine learning / deep learning algorithms for classification, and analysis.
- Published a **research paper** in IEEE AICT Conference

EDUCATION

Master of Science in Computer Science

Khazar University / September 2019 – May 2021 / **First Class Honors Degree (top 1%) / GPA: 4/4**

Bachelor of Science in Computer Science

ADA University / Baku, Azerbaijan / September 2013 - May 2018 / **Honors: Cum Laude, GPA: 3.71/4.0**

CERTIFICATIONS / ACHIEVEMENTS

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| Tensorflow Developer Certificate | 2021 |
| IELTS Academic test score of 8.0 / C2 level | 2022 |
| Instructor at 30 Days of ML Kaggle, Google | 2021 |
| 2x Finalist at International Data Analysis Olympiads - 16 th place amongst 2187 teams | 2021, 2019 |
| First place at AzInTelecom Hackathon (Computer Vision Problem) | 2018 |
| Honorable Mention at the ACM ICPC North-Eastern European Regional Contest | 2015 |

RELEVANT SKILLS (more details at: github.com/usuleymanov)

Programming: Python, Tensorflow, Keras, NumPy, pandas, SQL, Tableau, Gensim, Elasticsearch, NLP, Docker, Version Control, Cloud, Applied Machine Learning, Deep Learning, Spark, BigQuery, AutoGluon

PUBLICATIONS

- Training and Evaluation of Word Embedding Models for Azerbaijani Language. In: Advances in Intelligent Systems and Computing, vol 1376. Springer, Cham. doi: https://doi.org/10.1007/978-3-030-74728-2_4
- Text classification for azerbaijani language using machine learning, Computer Systems Science and Engineering, vol. 35, no.6, pp. 467–475, 2020. doi: <https://doi.org/10.32604/csse.2020.35.467>
- Sentiment Polarity Detection in Azerbaijani Social News Articles. International Conference Recent Advances in Natural Language Processing, 2019. doi: https://doi.org/10.26615/978-954-452-056-4_082
- Empirical Study of Online News Classification Using Machine Learning Approaches. IEEE 12th AICT Conference Proceedings. doi: <https://doi.org/10.1109/ICAICT.2018.8747012>