

Umid Suleymanov

Baku, Azerbaijan | (+994) 55 9199862 | umidsuleymanov@gmail.com | linkedin.com/in/umid-suleymanov/ | github.com/usuleymanov | researchgate.net/profile/Umid-Suleymanov

Certified Tensorflow developer, a senior data scientist with five peer-reviewed publications and two times finalist at International Data Analysis Olympiads, obtaining 16th place among 2187 teams. Proven practical experience in machine learning, natural language processing, computer vision, predictive modeling, and python. Looking to use my experience to build machine learning solutions.

EXPERIENCE:

Senior Data Scientist, E-Gov Development Center

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

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

July 2018 – November 2019

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

Research Assistant, Center for Data Analytics Research

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

CERTIFICATES AND ACHIEVEMENTS:

- | | |
|---|------|
| IELTS Academic 8.0 | 2022 |
| Tensorflow Developer Certificate | 2021 |
| Instructor at 30 Days of ML Kaggle, Google | 2021 |
| Finalist at International Data Analysis Olympiads - 16 th place amongst 2187 teams | 2019 |
| First place at AzInTelecom Hackathon (Computer Vision Solution) | 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

ACADEMIC EXPERIENCE: Adjunct Lecturer

Teaching Experience: Introduction to Artificial Intelligence, Software Design Patterns, Data Analysis with Python, Object Oriented Analysis and Design

Universities: Baku State University, Khazar University, ADA University

EDUCATION:

Khazar University

Master of Science in Computer Science

First Class Honors Degree (top 1%) / GPA: 4/4

2019 – 2021

ADA University

Bachelor of Science in Computer Science

Honors: Cum Laude / GPA: 3.71/4

2013 – 2018

PUBLICATIONS:

- Huseynov K., **Suleymanov U.**, Rustamov S., Huseynov J. (2021) Training and Evaluation of Word Embedding Models for Azerbaijani Language. In: Digital Interaction and Machine Intelligence. MIDI 2020. Advances in Intelligent Systems and Computing, vol 1376. Springer, Cham. DOI: https://doi.org/10.1007/978-3-030-74728-2_4
- **Suleymanov U.**, B. K. Kalejahi, E. Amrahov, and R. Badirkhanli, "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>
- Mammadli S., Huseynov S., Alkaramov H., Jafarli U, **Suleymanov U.** and Rustamov S. 2019. Sentiment Polarity Detection in Azerbaijani Social News Articles. International Conference Recent Advances in Natural Language Processing (RANLP 2019) 2-4 September 2019, Varna, Bulgaria. DOI: https://doi.org/10.26615/978-954-452-056-4_082
- **Suleymanov U.**, Rustamov, S., Mustafali A., Zulfugarov M., Orujov O., Musayev N., Alizade A.. 2018. Empirical Study of Online News Classification Using Machine Learning Approaches. IEEE 12th International Conference on Application of Information and Communication Technologies Conference Proceedings. Almaty, Kazakhstan. DOI: <https://doi.org/10.1109/ICAICT.2018.8747012>
- **Suleymanov U.** and Rustamov S. 2018. Automated News Categorization using Machine Learning methods. Aegean International Textile and Advanced Engineering Conference (AITAE 2018) 5–7 September 2018, Lesvos, Greece. DOI: <https://doi.org/10.1088/1757-899X/459/1/012006>

CONFERENCES:

- 8th Machine Intelligence and Digital Interaction – MIDI Conference, 9-10 December 2020, Warsaw, Poland
- International Conference Recent Advances in Natural Language Processing (RANLP 2019) 2-4 September 2019, Varna, Bulgaria
- IEEE 12th International Conference on Application of Information and Communication Technologies Conference (AICT2018), 17-19 October 2018, Almaty, Kazakhstan.
- Artificial Intelligence for Digital Governance (AI4DIGIGOV), 26-28 April 2021, Online Conference
- International Conference on Artificial Intelligence and Applied Mathematics in Engineering – ICAIME (2022), 21-22 May, Baku, Azerbaijan