

ELSUN NABATOV

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SUMMARY

Experienced Data Analyst & Scientist adept in analytics and machine learning. Proven track record of leading strategic initiatives to enhance business outcomes using data-driven insights. Eager to contribute to the company's mission by leveraging advanced data modeling skills and a strong background in business domain analysis.

PROFESSIONAL EXPERIENCE

PRODATA

Data Scientist

Tel Aviv-Yafo, Israel

October 2022 - Present

- Collaborated with a team of 15 members to conduct end-to-end fine-tuning of models on TensorFlow, PyTorch, and Scikit-learn, achieving a remarkable 19% enhancement in overall performance and accuracy.
- Led the optimization of model hyperparameters, employing rigorous experimentation and cross-validation techniques, resulting in a notable 21% improvement in predictive accuracy and a 14% reduction in false positives, while fostering a collaborative team environment.
- Pioneered the conceptualization, design cross-functional environment, and development of NLP applications, harnessing advanced transformer models such as BERT and GPT. This collaborative effort significantly improved accuracy and performance in critical tasks like sentiment analysis and named entity recognition, leading to a substantial 40% increase in data classification precision.

Presidency of the Turkey Republic

Economic Analyst

Ankara, Türkiye

June 2022 - October 2022

- Utilized predictive models, including ARIMA and regression models, to predict the impact of economic policies, contributing to a 17% improvement in forecast accuracy.
- Applied machine learning with regression and clustering to analyze economic trends, improving analysis accuracy by 13% and uncovering key correlations.
- Conducted comprehensive database designing relationship building between money supply, budget deficit, and inflation rate, employing advanced statistical models to validate hypotheses and provide data strategy.

ATL Tech

Data Analyst

Baku, Azerbaijan

July 2020 - November 2021

- Applied problem-solving skills to drive a 20% increase in customer segmentation accuracy through the optimization of k-means clustering. Employed critical thinking in enhancing time series forecasting, resulting in a remarkable 27% reduction in errors and a 23% improvement in overall accuracy.
- Demonstrated strong teamwork and leadership by spearheading the creation of interactive data visualizations using Tableau, Power BI, and Matplotlib. This collaborative effort contributed to a 31% improvement in data communication and understanding, showcasing effective problem-solving skills within the team.
- Leveraged critical thinking and a collaborative approach with Python and SQL expertise to conduct indepth clustering and segmentation analysis. This strategic effort facilitated data-driven marketing strategies and product development, leading to a 25% increase in conversion rates and a 10% reduction in customer churn. The application of these problem-solving skills resulted in an annual revenue growth of \$300k.

EDUCATION

Newcastle University

Master's, Data Science

September 2023 - August 2024

GPA: 90

- Advanced Machine Learning & Deep Learning
- Big Data & Cloud Computing
- Engineering in AI & Data visualization

Yildiz Technical University

Master's, Economics

October 2021 - July 2023

GPA: 3.6

- Thesis Title: Using Machine Learning to Enhance Agricultural Productivity in Turkey: Insights on the Importance of Soil Moisture, Temperature and Precipitation Patterns
- Artificial Intelligence in Quantitative Economics

Azerbaijan State Economics University

Bachelor's, Economics

September 2017 - July 2021

GPA: 95.12

- Economic Forecasting
- Econometrics

PROJECTS & OUTSIDE EXPERIENCE

International Publication 1

February 2024 - Present

International Journal of Environmental Science and Technology (Q1 SCOPUS-indexed)

- Article Title: Using Machine Learning to Enhance Agricultural Productivity in Turkey: Insights on the Importance of Soil Moisture, Temperature and Precipitation Patterns
- [Link to project](#)

International Publication 2

New York, NY, USA

International Journal Business and Economics Research

February 2022 - Present

- Article Title: The Analysis of the Relationship Between Money Supply, Budget Deficit and Inflation Rate in Azerbaijan
- [Link to project](#)

International Publication 3

June 2020 - Present

Academic Journal of Economic Studies

- Article Title: Institutional Base and Infrastructure Development for Non-Cash Payments in Azerbaijan
- [Link to project](#)

SKILLS

Skills: AWS, Python, R, SQL, Snowflake, Excel, Looker, Agile, Power BI, Data Science, Data Structures & Algorithms, Tableau, Google Cloud Platform, Business Strategy, Computer Vision, Data Analysis, Fintech, Banking, Google Analytics, Business Analytics, Linux/Unix, Postgres, Pytorch, Tensorflow, Natural Language Processing (NLP), Operations Research, Financial analysis, Apache Kafka, BigQuery, Microsoft Azure, MySQL, NumPy, Pandas

Languages: Russian, Turkish, Azerbaijani, English