

AIZHAMAL ZHETIGENOVA

Data Scientist

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EDUCATION

Bachelor of Science in Computer Science

Sep. 2020 – Jun. 2025

University of Central Asia (UCA), Naryn, Kyrgyzstan

Grade: 3.41 / 4.0

Relevant Courses: Data Science, Machine Learning, Artificial Intelligence, Digital Image Processing, Data Visualization, Software Engineering, Data Structures & Algorithms, Design & Analysis of Algorithms, Database Management Systems, Statistics I, Statistics II, Linear Algebra, Discrete Mathematics

WORK EXPERIENCE

Machine Learning Developer

Oct. 2023 – Present

Fiverr - Freelancing Platform

- Completed over 10 machine learning projects involving data analysis, preprocessing, and visualization, and implemented various machine learning models.
- Worked with clients to understand requirements and deliver tailored machine-learning solutions.

Stack: Python, Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Matplotlib, Seaborn, Plotly

Data Science Tutor

Jun. 2024 – Present

Preply - Tutoring Platform

- More than 170 hours of tutoring more than 25 people, covering topics such as data reading, preprocessing, visualization, machine learning (supervised & unsupervised), and deep learning.

Stack: Python, Jupyter Notebook, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch

3D Lab Assistant

Oct. 2023 – May 2024

University of Central Asia, Naryn, Kyrgyzstan

- Maintained and repaired 3D printers in the lab, and 3D printed 20+ projects, helping students and UCA staff with design and technical issues.
- Conducted workshops, teaching more than 30 students how to use 3D printing technology effectively.

Stack: Ultimaker Cura, PrusaSlicer, Ender 3, FDM/SLA 3D printing

Python Content Writer

Mar. 2022 – Apr. 2024

Fiverr - Freelancing Platform

- Authored over 30 articles on Python programming, covering data manipulation, data visualization, and Python basics, etc.
- 1 article for [CodeSolid.com](https://codesolid.com) ranked number one in search engines with approximately 1 million views.

Stack: Python, Pandas, NumPy, Matplotlib, Seaborn, Plotly, Jupyter Notebook, Markdown, SEO

Technical Content Writer

Jun. 2022 – Nov. 2022

Reviro, Bishkek, Kyrgyzstan

- Wrote over 10 technical articles explaining company products (e.g., taxi booking app, legal consultation platform, neobanking services, surge price algorithm).

Stack: Technical Writing, Research, Markdown, SEO, Product Documentation

PROJECTS

Bishkek House Price Prediction

2024

Summary: Built a machine learning-based real estate price prediction system for Bishkek, enabling buyers, sellers, and investors to make data-driven decisions.

- Processed a dataset of 10,000 real estate listings from the Lalafo marketplace.
- Conducted exploratory data analysis and handled missing values with machine learning-based imputation, and achieved accuracy of 91% for the trained models.

Stack: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Plotly, Seaborn, XGBoost, CatBoost, LightGBM

[Life in Kyrgyzstan](#)

2024

Summary: Designed and developed an interactive data visualization dashboard analyzing socio-economic aspects of Kyrgyzstan using real-world datasets.

- Developed visualization dashboard using Streamlit, Pandas, and Plotly for interactive insights.
- Analyzed migration patterns, and investigated financial dependencies, showing the reliance on remittances and loans.

Stack: Python, Streamlit, Pandas, Plotly, Seaborn, Jupyter Notebook

RESEARCH EXPERIENCE

Investigating the Relationship Between Air Quality and Respiratory Illness in Central Asia Using Machine Learning and Artificial Intelligence Techniques

- Collected and processed air quality and clinical health data from multiple sources.
- Applied statistical analysis and machine learning models to predict air quality index (AQI) and respiratory illness trends.
- Implemented explainable AI to interpret model outputs and identify key contributing factors.

AWARDS

MedAI Hackaton | 2024 |
Accelerate Prosperity, The Cramer Project, High Technology Park

Took 3rd place among 15 teams in the AI in Medicine hackathon for implementing a project for breast cancer classification.

SUSI Exchange Program Alumni | 2023 |
U.S. Department of State

Finalist and alumna of the Madeline K. Albright Young Women's Environmental Leadership Studies Program at U.S. institutions. Albright Program at Green River College.

Spark of Hope Foundation Scholarship | 2021 – 2025 |
Spark of Hope Foundation

Received a \$2,000 scholarship for strong academic performance, covering tuition fees for the 2021-2025 academic years.

TECHNICAL SKILLS

Programming Languages: Python, R
Machine Learning & Deep Learning: Scikit-learn, TensorFlow, Keras, PyTorch, LightGBM, CatBoost, XGBoost
Data Processing & Analysis: Pandas, NumPy, SciPy
Data Visualization: Matplotlib, Seaborn, Plotly, Streamlit, Dash, Tableau, Power BI
Computer Vision: OpenCV, Pillow (PIL)
Natural Language Processing (NLP): NLTK, SpaCy, Transformers (Hugging Face), TextBlob
Version Control & Development Tools: Git, GitHub, GitLab, Jupyter Notebook, VS Code, PyCharm, RStudio
Other Skills: 3D printing, Technical Writing, Feature Engineering, Statistical Analysis, Time Series Forecasting

SPOKEN LANGUAGES

- **Kyrgyz** (Native)
- **English** (Full Professional Proficiency - C1)
- **Russian** (Full Professional Proficiency - C2)

REFERENCES

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