

# ELIZA CHUROKOVA

Data Science Specialist

Bishkek, Kyrgyzstan | [Email](#) | [Linkedin](#) | [GitHub](#) | [HuggingFace](#) | [Tableau](#) | +996 551 435 495

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## SUMMARY

Data Scientist & Analyst with combined experience of 15+ years in international consulting (USAID, World Bank) and operational management, strong analytical skills and hands-on experience in data cleaning, EDA, visualization, and predictive modeling. Skilled in Python, SQL, Tableau, and classical machine learning models. Completed multiple end-to-end analytics and ML projects (Regression, Classification, Forecasting, Clustering, NLP).

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## SKILLS

- **Technical: Python** (Pandas, Scikit-learn, NumPy, Matplotlib, Seaborn), **SQL** (Queries, JOINS, filtering, aggregations), Tableau, **Machine Learning** (Regression, Decision Trees, Random Forest, Gradient Boosting, SVM, KNN, Clustering, NLP), **Java** basics.
  - **Tools:** GitHub, Jupyter Notebook, Advanced Excel, API requests, OOP basics.
  - **Soft Skills & Leadership:** Strategic Stakeholder Communication, Cross-functional Team Management & Teambuilding, Full Project Lifecycle Management, and Business Development.
  - **English:** B2 (professional working proficiency), **Russian:** fluent / advanced, **Kyrgyz:** fluent / native.
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## EXPERIENCE

Operations Manager

TES Center - International Agricultural & Development Consulting

*Bishkek, Kyrgyzstan, 2011 – 2025*

- **Data Management & Research:** Led data lifecycle for 60+ consulting projects; designed survey methodologies, tested hypotheses, and built structured databases ensuring 100% data integrity for international donors (USAID, WB).
  - **BI & Performance Tracking:** Developed custom KPI frameworks and Tableau dashboards; translated complex field research into actionable insights, reducing reporting time and providing real-time visibility for project stakeholders.
  - **Strategic Analytics:** Performed quantitative analysis for 10+ evaluation studies to support project proposals; optimized operational budgets (\$10k-\$20k per project) through data-driven cost modeling and resource allocation.
  - **Team & Workflow Leadership:** Managed a cross-functional team of 6 and coordinated short-term researchers; standardized data entry and processing workflows, consistently delivering all project milestones within budgeted targets.
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## PROJECTS

Climate Change Data Analytics ([GitHub link](#))

*Aug 2025 – Sept 2026*

- **Analyzed global and local warming correlations** by integrating 3 disparate datasets (120k+ records) via Python.
- **Key Insight:** Mathematically demonstrated that local CO<sub>2</sub> emissions in Kyrgyzstan lack a direct correlation with local temperature rises; regional warming is 85% driven by global climate trends rather than domestic factors.
- Tools: **Python, Pandas, NumPy, Matplotlib, Seaborn/Plotly, SciPy, Google Colab.**

Fire Calls Dataset Analysis ([GitHub link](#))

*Sept 2025 – Oct 2025*

- **Processed a dataset (7M+ records)** of emergency calls to predict fire department response times based on caller profiles.
- **Model Optimization:** Tuned LightGBM, RandomForest, and AdaBoost ensembles; achieved lowest RMSE with AdaBoost and highest R<sup>2</sup> with RandomForest for resource allocation.
- Tools: **Python, Pandas, NumPy, scikit-learn, LightGBM, Matplotlib, Seaborn.**

Kyrgyzstan Population Clustering ([GitHub link](#))

*Nov 2025 – Dec 2025*

- **Developed a regional segmentation model** using **4 clustering algorithms** (KMeans, Agglomerative, DBSCAN, GMM) and applied PCA to identify socio-economic outliers and “noise” zones for infrastructure audits.
- Tools: **Python, Pandas, Scikit-learn, Matplotlib, Seaborn.**

Road Traffic Accidents Dashboard ([Tableau link](#))

*Oct 2025 – Nov 2025*

- **Engineered a dashboard** analyzing road traffic accidents in Kyrgyzstan (2006–2021) to identify high-risk geographic clusters.
  - **Strategic Insight:** Pinpointed Bishkek and the Chuy region as high-density accident zones, providing data-driven justification for prioritizing “Smart City” traffic safety interventions.
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## EDUCATION

- **Data Science Professional Training Course**, AI Academy
- **Java basics**, IT Academy
- **MBA**, American University in Central Asia (AUCA)
- **Management & International Relations**, Osh Technological University (OshTU)

*Bishkek, 2026*

*Bishkek, 2020*

*Bishkek, 2015*

*Osh, 2004*