Dinar Orazgaliyev

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Data Scientist and Engineer with strong expertise in SQL, time series analysis, and ML, passionate about building robust data pipelines and scalable ML frameworks.

Programming: Python VBA SQL Shell

Data & ML: Pandas Numpy Matplotlib BigQuery PyTorch ClearML Darts scikit-learn

Tools: Docker Git

Languages: Kazakh (Native), Russian (C2), English (C1), German (A2)

Experience

Research Assistant, DFKI — Sept 2024 – Present

- Built ML pipelines for heat consumption time series, training classical (ARIMA, SARIMA, XGBoost, CatBoost) and deep learning models (TFT, TCN).
- Applied preprocessing to optimize classical models; fine-tuned pretrained transformers (TTM).
- Developing a Python framework for end-to-end time series analysis integrating PyTorch and Darts, unifying data loading, training, and reporting.

Data QA, Sxope — Feb 2024 – Sept 2024

- Maintained QA standards for ongoing medical data pipelines via SQL test cases in Zephyr.
- Created validation tests to detect errors and improve reliability.
- Used BigQuery for efficient querying and analysis of large datasets.

DCS Engineer, KMG Automation — May 2021 – Sept 2023

- Programmed and maintained Foxboro DCS to ensure smooth plant operations.
- Created VBA Excel tool linked to MSSQL for plant alarm KPI analysis; used daily in team meetings.
- Automated tasks with Shell and Python scripts, reducing manual work by 30%.

Automation Engineer, KMG Automation — Dec 2019 – Apr 2021

- Administered Windows Servers, configured switches, supported DCS.
- Contributed to DCS upgrade for Kashagan oil field, Kazakhstan.

Data Engineer, Nordal — Apr 2019 – Nov 2019

- Developed SSRS reports and OLAP warehouses supporting business analytics.

Projects

- **Finetuning XGLM Transformer** — Applied parameter-efficient tuning (IA3, LoRA, BitFIT) to adapt large language models, improving NLP task performance with less computation.
- **Facial Emotion Recognition** — Developed CNN and Fine-Tuned ResNet18 for emotion classification on FER-2013 dataset with strong accuracy.
- **Telegram Language Teacher Bot** — Built a Telegram bot for learning German using Ollama phi3, LangChain along with RAG pipeline, with multiple prompts for grammar exercises. Future work: fine-tune with LoRA.

Education & Certifications

MSc Embedded Systems, Saarland University — 2023–*Present*

ML, Neural Networks, GenAI, Statistics, Signal Processing

BEng Electrical Engineering, Nazarbayev University — 2019

Publications: Relay Optimization, Blockchain Smart Grid

Certifications

- Math and Python for Data Analysis
- Machine Learning
- Intermediate R
- Power BI