ARTEM PONOMARENKO

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Specialized in machine learning, big data, and AI. Experienced in building predictive models, optimizing data pipelines, and integrating advanced analytics. Strong background in Python, SQL, CatBoost, PyTorch, PySpark, and cloud-based solutions, with a track record of impactful projects in user profiling, forecasting, and fine-tuning LLMs.

Skills

Languages	Python, SQL, R
ML & DS	CatBoost, PyTorch, Scikit-learn, MLflow, DVC, A/B testing
Big Data	Spark, Hadoop, YTsaurus, Airflow
Databases	ClickHouse, PostgreSQL, SQLAlchemy
Tools	Docker, Kubernetes, FastAPI, CI/CD, Git, Bash

Experience

VK   Nov 2023 - Present
Data Scientist

- Designed and built from scratch the age prediction pipeline for VK profiles, resulting in a highly accurate age prediction model and improving user profiling accuracy by 25%.
- Improved user matching system by integrating new data sources and developing preprocessing pipelines, resulting in a 2x increase in identifier coverage and improved cross-service user matching across VK, OK, Dzen and more.
- Acquired and integrated high-quality geolocation data from Spherum to benchmark and evaluate the accuracy of various geolocation tools, enhancing the reliability of location-based analytics.

CRPT (Chestny Znak)   Sep 2022 - Nov 2023
Data Analyst

- Developed a time series forecasting model using Prophet to predict digital marking code demand, achieving 4% MAPE improvement and optimizing the national product tracking system's capacity planning.
- Designed and implemented automated data quality monitoring system using Redash and Airflow.
- Optimized reports and queries from BI analysts and crafted data visualizations in Redash to effectively communicate insights.

Projects

JobMatch for HR Luna Park ⚙ — LLM, LoRa, Prompt Engineering

- Fine-tuned LLMs using LoRa and few-shot prompting to match CVs with job descriptions for improved candidate-job alignment.

Salary prediction based on resume for rabota.ru ⚙ — CatBoost, Scikit-learn, MLFlow, DVC

- Engineered features, conducted EDA, and improved salary prediction accuracy by clustering jobs based on skills and training CatBoost models for each cluster.

Smatched (makeup transfer with Stable Diffusion) ⚙ — PyTorch, Transformers

- Developed a deep learning pipeline for realistic makeup style transfer using Stable Diffusion, enhancing visual fidelity through model fine-tuning and advanced data augmentation.

Education

ITMO University   2023 — 2025
Master of Science in Artificial Intelligence   Remote

Saint Petersburg State University   2018 — 2022
Bachelor of Science in Applied Mathematics and Computer Science