MARAT MANSUROV

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SUMMARY

Machine Learning Engineer with experience in developing and deploying machine learning models for search, speech synthesis, and content moderation at Yandex. Skilled in Python, PyTorch, CatBoost, and large-scale data processing. Strong foundation in algorithms, deep learning, and natural language processing (NLP).

SKILLS

Programming Languages	Python 3, C++, SQL
Machine Learning	PyTorch, Transformers, CatBoost
Tools	Git, Docker, W&B
Languages	Native Russian, Advanced English

WORK EXPERIENCE

Machine Learning Engineer — Yandex Maps, Yandex May 2023 – Present

- Developed a geo-intent classifier for Yandex Search, reducing unnecessary Knowledge Panel displays from 22% to 3%.
- Led the launch of Yandex Search's geo Knowledge Panel in Turkey, achieving quality parity with Google's local results within 6 months.
- Improving geo search relevance by enhancing core ranking algorithms and modeling user intent for spatial queries.

Machine Learning Engineer (Part-Time) — Songsterr Nov 2024 – Feb 2025

- Designed and implemented a set of product quality metrics to evaluate the performance of a music tab recognition system, ultimately selecting and refining a key metric that significantly improved decision-making.
- Developed and integrated a beam search algorithm into the recognition pipeline, conducting experiments to measure its impact on system performance.

Deep Learning Engineer — Text-to-Speech Team, Yandex July 2022 – October 2022

- Improved speech synthesis quality by designing a new loss function based on user quality assessment.
- Built a pipeline for training and experimentation from scratch, enabling faster iteration and model improvement.
- Identified and resolved issues with user quality assessment, leading to more reliable model evaluations.

Analyst — Yandex.Direct Moderation Team, Yandex June 2021 – October 2021

- Trained and implemented several classifiers for detecting political and prohibited content on ads, improving moderation accuracy from 0.62 to 0.80.
- Collected and prepared few large datasets from raw logs for training and evaluation.
- Enhanced the moderation dashboard by adding real-time visualizations for better decision-making.

EDUCATION

Higher School of Economics Sep 2019 – Jun 2023
Bachelor in Applied Mathematics and Computer Science
Relevant Courses: Algorithms, Machine Learning, Deep Learning, NLP, Graph NN, Efficient DL, Self-Supervised Learning.

ACADEMIC ACHIEVEMENTS

- Winner of "I.J. Verchenko Interregional Olympics in Mathematics and Cryptography" (300+ participants).
- Winner of "Lomonosov" Mathematics Olympiad (500+ participants).