

Artur Ilichev

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WORK EXPERIENCE

Yandex.Market (one of the largest marketplaces in Russia)

Data Scientist

October 2020 - Present

SQL Python MapReduce Catboost Toloka (crowdsourcing) A/B testing Mentorship

- Experimented with targets and features to improve the quality of user2item and item2item recommendation models.
- Implemented the automatic regular workflow for labeling search query redirects to product categories using crowdworkers (e.g., "OnePlus Buds" → "Headphones"). That improved the redirects recall by **14%** on popular search queries and by **8%** on all queries, with precision improved by **4%**.
- Developed an algorithm for finding trending goods to help users discover new items on the Market's main page.
- Analyzed the results of A/B tests and helped managers with making product decisions.
- Maintained Python code for processing logs (to use them for ML and analytics) and calculating metrics.

Huawei Noah's Ark Lab (AI research center for Huawei Technologies)

Research Scientist (Natural Language Processing)

November 2019 - October 2020 (part-time)

NLP Python PyTorch TensorFlow

- Worked on the Transformer-based models distillation, studied the effect of distillation from multiple teacher models.
- Developed methods to improve the TinyBERT score on small datasets, e.g., on CoLA (linguistic correctness) by **15%**, using an improved augmentation process and an attention-based strategy for choosing the layer mapping function.
- Improved the distilled BERT robustness to random factors on the GLUE benchmark using multiple teachers.

Yandex (leading Russian search engine)

Machine Learning Intern

July 2019 - October 2019

Python NLP SQL Toloka (crowdsourcing) gensim Django ORM

- Developed a model to predict whether the dialogue is over (from collecting a dataset to writing production code).

Warden Machinery (Computer Vision Startup, Skolkovo Resident)

Machine Learning Intern

March 2019 - May 2019

Computer Vision Python PyTorch

- Developed heuristic methods for detecting illegal smoking based on the pose tracking and the Fourier transform.
- Trained and applied a neural network (MobileNetV2) for real-time special clothes classification on CCTV video.

Tinkoff Bank (the largest Russian digital bank)

Data Analyst Intern

July 2018

Data Visualization Python Plotly

- Performed visual data analysis, developed a model for prioritizing support queries to increase service productivity.

EDUCATION

Moscow Institute of Physics and Technology (MIPT)

September 2020 - July 2022 (expected)

Master's degree, Department of Applied Mathematics and Computer Science

Major in Applied AI (courses by Russian Venture Company)

Moscow Institute of Physics and Technology (MIPT)

September 2016 - June 2020

Bachelor's degree, Department of Applied Mathematics and Computer Science

GPA 9.3/10

Major in Data Science (courses by Yandex School of Data Analysis)

ACHIEVEMENTS

Publications

- *RANLP 2021* - Multiple Teacher Distillation for Robust and Greener Models (A. **Ilichev**, N. Sorokin, V. Malykh, I. Piontkovskaya). [Link](#)

Kaggle (a platform for ML challenges) - Competitions Expert

- *2019* - Gendered Pronoun Resolution (Google Research) - 33rd out of 838 (**top 4%**, Silver medal).
- *2018* - Santander Value Prediction Challenge (Banco Santander) - 167th out of 4463 (**top 4%**, Silver medal).