

# DANIŁA SEDASHOV

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## WORK EXPERIENCE

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### Machine Learning Engineer

Yandex Eats

May 2021 - present

*Moscow, Russia (hybrid)*

- Collect data from raw service logs using YQL (SQL-like query language), create automatic pipeline collecting and preparing datasets for analytics, dashboards and fitting models.
- Configure automatic pipeline for fitting models and deploying it to high-loaded low-latency services in Python and C++. Service uptime is 99.999%, 99-percentile of the response timing is less than 200ms.
- Bring about improvements in the search model inside the app, leading to increasing search-order conversion by 2.1%.
- Improve quality of the model for predicting ETA, resulting in reducing the fraction of delays by 34% and increasing the fraction of On Time deliveries by 64%
- Develop and deploy deep learning model for automatic couriers' bags photocontrol, reducing the labor for human annotation and improving the platform efficiency by reducing couriers average wait time.
- Build easy-scalable automatic demand prediction for multiple hundreds of time series using Nile and YT (Yandex's analogues of PySpark and Hadoop, respectively). Partly automate the process of couriers' and callcenter operators' shifts planning, improving the quality of the forecast by 23% in terms of MAPE metric.

### Software Engineering Intern

Tinkoff

July 2020 - August 2020

*Moscow, Russia (remote)*

- Developed a plugin for NetBox using Python and Django framework for IP-addresses and Datacenter Infrastructure management. Provided an infrastructure for extended data storage.
- Implemented scrapers, parsers and loaders for datacenters' devices. Fully automated the process of gaining data from the devices and pushing it into NetBox.

### Machine Learning Intern

App in the Air

June 2019

*Moscow, Russia*

- Built model to predict the purchase of the air ticket.
- Modelled users' behaviour on the graph of air flights.

## EDUCATION

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### National Research University Higher School of Economics, Moscow

Bachelor in Applied Mathematics and Computer Science

2018-2022

GPA: 7.8

**Relevant courses:** Machine Learning, Probability Theory and Statistics, Linear Algebra, Discrete Mathematics, Calculus, Programming, Algorithms and Data Structures, Architecture of Computer and Operation Systems, Continuous Optimization, Natural Language Processing, System Design

## SKILLS

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### Hard skills

Machine Learning (numpy, sklearn, CatBoost, pandas, statsmodels),  
Deep Learning (PyTorch), SQL, Software Engineering in Python, C++, Go,  
A/B testing, Analytics, PySpark, Git, Docker

### Soft skills

Communicativeness, Critical Thinking,  
Teamwork, Responsibility, Leadership

### Languages

Russian — native  
English — fluent

## RESEARCH ACTIVITY

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**Active Learning for Abstractive Text Summarization.** Author of the paper “Active Learning for Abstractive Text Summarization”, published in proceedings of the EMNLP-2022. Conducted analysis on the applicability of uncertainty-based active learning strategies to abstractive text summarization task. Introduced the first active learning strategy that steadily outperform random sampling. Proposed a method for pseudolabeling documents, which improves model performance on each iteration of the learning process.

## PROJECTS

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**SlideCurrency.** During the university coursework implemented Web API using Flask for work process gamification in collaboration with UniCredit Bank. The API allows users exchanging the bank inner currency for a well done job and spending it in the inner e-shop of the company..

**Polls App.** Using Django, built an API for the polls app. It allows creating, modifying and taking part in the polls. The code can be obtained via the [link](#).

## EXTRA-CURRICULAR ACTIVITY

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- 3rd degree award winner in Lomonosov Olympiad in Mathematics, Interregional Olympiad in Mathematics and Cryptography, United Interuniversity Olympiad in Mathematics (over 3500 participants each).
- During student years have been was university football team captain.