

DANIEL SAVENKOV

SENIOR MACHINE LEARNING ENGINEER

PROFILE

- 5 years of experience as Machine Learning Engineer / Team Lead
- Skills covering the entire ML pipeline in a large scale systems, hands-on experience with SOTA recommender system models
- Experience in leading the ML project through multiple phases: turning business task into measurable optimization task, offline experimentation and validation, proof of concept, deployment, ab-testing, iterative improvement
- Teaching, mentoring and public speaking experience
- Kaggle Competitions Expert (top-1% results in competitions with thousands participants):
<https://www.kaggle.com/daniel89>

EXPERIENCE

2022 - Present

Yandex

Senior Machine Learning Engineer, Moscow

Yandex is a Russian technology company providing Internet-related products and services, including the most popular in Russia Internet search engine, information services, e-commerce, transportation, maps and navigation, mobile applications, and online advertising.

My experience:

- Built from scratch and launched MVP for explainable recommendations according to the user's long-term search interests. Intensively incorporated BERT models into the recommender
- Leading a team responsible for the recommendations from the previous line
- Improved Video Recommender (200 rps high load service with SOTA deep learning models inside). The effect was measured as significant increase of the average watch time
- Worked on "Recommender System As a Service" framework. This framework provides teams at Yandex an instrument to build SOTA recommendations from the predefined blocks. The framework allows to build the entire pipeline (data logging, dataset construction, distributed model training and evaluation, efficient online inference)

2019 - 2022

VK.com

Senior Machine Learning Engineer, Saint Petersburg

VK (short for its original name VKontakte) is a Russian most popular online social media and social networking service.

My experience:

- Improved newsfeed ranking algorithms for vk.com smart feed (70M DAU product). Was responsible for the entire ML-pipeline: data aggregating, training, validating and deploying ranking models, ab-testing
- Built from scratch and launched content creators monetization algorithm. This project had plenty of cross-functional communication both with content creators community managers and with the stakeholder. The important part was my public presentation of the project to the users (content creators) and staying in touch with their community
- Developed recommendations in different domains (organic content, classifieds, e-com goods)
- Hired and mentored Machine Learning Engineers and Interns
- Presented the results of the team's work as well as ongoing research at the external events (e.g. <https://youtu.be/TIBD08UgMOE> - video in Russian) and at blog platforms (e.g. <https://vkteam.medium.com/practitioners-guide-to-statistical-tests-ed2d580ef04f>)

2017 - 2019

MTS Group

Machine Learning Engineer, Moscow

MTS ("Mobile TeleSystems") is the largest mobile network operator in Russia.

My experience:

- Developed recommender systems for mobile applications (matrix factorization, content based approach, item2vec, etc.)
- Built user segments for mobile applications promotion (look alike segmentation, uplift modeling)
- Developed voice spam detection model
- Hired and mentored Data Scientists and Machine Learning Engineers
- Acted Data Science Team Lead since September 2018
- Presented the results of the team's work as well as ongoing research at the external events (e.g. <https://youtu.be/LMeEl2-GBHg> - video in Russian)

SIDE PROJECTS

11th out of 3835 in Mercedes-Benz Greener Manufacturing Competition on Kaggle

https://github.com/Danila89/kaggle_mercedes

13th out of 3274 in Sberbank Russian Housing Market Competition on Kaggle

<https://www.kaggle.com/c/sberbank-russian-housing-market/discussion/35700>

Medium article on statistical tests

<https://vkteam.medium.com/practitioners-guide-to-statistical-tests-ed2d580ef04f>

Medium post on Data Debugging in Collaborative Filtering

<https://tinyurl.com/3f2yrfuk>

EDUCATION

2006 - 2010

Physics

Saint Petersburg State University, Saint Petersburg

Bachelor's degree

2013 - 2018

Music

Moscow State Conservatory named after P. I. Tchaikovsky, Moscow
Orchestral department, basoon

SKILLS

Software Development

Python	<div><div></div></div>
PHP	<div><div></div></div>
C++	<div><div></div></div>
Scala	<div><div></div></div>
SQL	<div><div></div></div>
Algorithms and Data Structures	<div><div></div></div>

Big Data

Apache Spark	<div><div></div></div>
Hadoop	<div><div></div></div>
Apache Hive	<div><div></div></div>

Management

Hiring	<div><div></div></div>
Mentoring	<div><div></div></div>
Team Leadership	<div><div></div></div>
Public Speaking	<div><div></div></div>
Cross-functional communication	<div><div></div></div>

Data Science

Machine Learning	<div><div></div></div>
Deep Learning	<div><div></div></div>
Mathematical Statistics	<div><div></div></div>
AB Testing	<div><div></div></div>

ML Ops

Spotify Luigi	<div><div></div></div>
Apache Airflow	<div><div></div></div>

Deep Learning Frameworks

Pytorch	<div><div></div></div>
Keras	<div><div></div></div>
Tensorflow	<div><div></div></div>

PERSONAL INFORMATION

Name

Daniel Savenkov

Birthdate

4 December 1989

Gender

Male

Residence

Antalya, Turkiye

Nationality

Russian

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