

Andrei Ruslantsev

Data Scientist

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I have **3+ years of experience** in machine learning (mostly using Python and Pytorch). **Launched product matcher from scratch twice** in two different companies. For now I am a Senior data scientist in **Aliexpress** Russia.

Experience

Senior Data Scientist, Aliexpress Russia

Oct. 2020 - Present

Project: Knowledge engineering – product matcher

- Launched ML-based product matcher from scratch in 6 months with matching precision 95%
- In next 3 months increased coverage of the most valuable categories by 20% with matches, in next 7 months doubled matcher recall for all categories
- Automated matching quality monitoring

Lead Data Scientist, InTechControl

Jun. 2019 – Present

A small startup developing software for finding defects on parts tomograms without parts destruction

- Developed software for automated search for defects on tomograms of carbon fibre reinforced parts, that provided 90% precision of defects search
- Developed ML-based software, which fully-automatic creates 3D model of part with defects from tomograms of detail
- Registered 2 software patents

Data Scientist, OZON.ru.

Feb. 2019 - Oct. 2020

One of the top-3 biggest Russian marketplaces, 12 000+ employees, capitalization \$7.2 b

Project: Warehouse management system optimization

- Increased warehouse picking efficiency by 24% by developing a new order fulfillment algorithm using optimization methods

Project: Product matcher

- Launched ML-based product matcher from scratch in 1 year and reached required indicators
- Provided 30% coverage of goods, taking into account the main competitors
- Mentored two interns
- Lectured on machine learning to students

Research officer, Institute of Machines Science.

Aug. 2012 - Feb. 2019

Russian leading research institution in the field of mechanical engineering

Project: Mechanics of composite materials

- Wrote and defended PhD thesis on time
- Developed analytical mathematical models for fiber reinforced plastics (deformation and fracture analysis, deformation under time-dependent loads)
- Organized and held international conferences "Deformation and Fracture of Composite Materials and Structures" in 2014, 2016 and 2018

Teaching assistant, Bauman Moscow State Technical University

Sep 2015 - Feb. 2019

- Developed a course approved at the department, which was taught 2 years to BMSTU students
- Two students defended their diploma projects with honors
- Designed tasks, homework and control software for automatic task checking on Mechanics of composite materials

Laboratory assistant, Bauman Moscow State Technical University

Sep 2010 – Jun. 2014

- Refurbished and recommissioned laboratory testing equipment, the rotary casting machine worked for 8 years without breakdowns after my recommissioning
- Developed a probabilistic model of particle redistribution during the rotary casting process of suspensions

Skills

Languages:

Python, Matlab, Maple, Swift, C++

Technologies:

Machine learning, Neural networks, Distributed Computing, MapReduce

Tools:

Pytorch, Apache Spark, Linux, Bash, Apache AirFlow, Jira, MaxCompute (pyodps), LaTeX, Word, Powerpoint.

Databases:

Clickhouse, Postgresql, Hive, MySQL.

Source control: git, dvc

Methodology: Scrum

IDE: pycharm, jupyter.

Education

Bauman Moscow State

Technical University

PhD degree in Solid Mechanics
2014-2018

Bauman Moscow State

Technical University

Master's degree in Materials science and technology of materials

GPA: 5.0/5.0

Research area – suspensions casting process simulation

Awarded President of Russian Federation scholarship in 2012-2013 and 2013-2014 for outstanding academic excellence

Bauman Moscow State

Technical University

Bachelor's degree in Materials science and technology of new materials

GPA: 4.9/5.0

2008-2012