

Marina Sergeeva

DATA SCIENTIST

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Professional Experience

Capital One

McLean, VA

PRINCIPAL ASSOCIATE, DATA SCIENCE

07/2019 - present

Helping Data Scientists at Capital One build better models by:

- Developing tools to automatically build challenger models and to perform residual analysis
- Creating training on both soft and technical skills required to deliver successful data science projects

SENIOR ASSOCIATE, DATA SCIENCE

06/2016 - 06/2017, 12/2017 - 07/2019

Served as a Data Scientist and Educator on the Academy of Data and Decision Science - an internal training organization. Created tools and training for ≈ 2000 Data Scientists and Analysts.

- Automated FAQ identification from slack messages to inform product stakeholders about gaps in user experiences and technical issues.
- Built and deployed an app for interactive feedback exploration to provide insights to content owners and reports to the leadership for improvement of content and engagement.
- Created an onboarding course and reimagined analysts' workflow in the new cloud-based platform for more than 2000 analysts.
- Facilitated the creation of nine new courses by engaging the community of practice and identifying learning needs and held in-person training sessions for ≈ 250 analysts.
- Organized four modeling competitions for Capital One associates, providing both technical and educational support for the participants. Updated infrastructure to support 10x growth in the number of participants.

Yandex

Moscow, Russia

INTERN RESEARCHER IN MONETIZATION GROUP

10/2013 - 08/2014

- Mapped the market structure of online advertisers by developing economic-based clustering: using historical data, analyzed the competition between advertisers for groups of keywords to update the pricing strategy for contextual advertisement
- Conducted an exploratory analysis of data on bounce behavior of users clicking on advertisements
- Analyzed results of experiments: ran tests to understand the effects of new pricing and displaying strategies for online advertisements on users' clicking behavior and revenue

PricewaterhouseCoopers

Moscow, Russia

INTERN CONSULTANT

10/2011 - 04/2012

- Developed business processes with detailed descriptions for tax departments of the leading Russian companies
- Conducted client interviews to learn the department structures and the current practices

Education

Carnegie Mellon University

Pittsburgh, PA

M.S. IN BUSINESS TECHNOLOGIES (INFORMATION SYSTEMS)

08/2014 - 05/2016

Completed courses from both Tepper School of Business and School of Computer Science

New Economic School

Moscow, Russia

M.A. IN ECONOMICS

09/2012 - 06/2014

Moscow State University

Moscow, Russia

SPECIALIST IN APPLIED MATHEMATICS AND COMPUTER SCIENCE

09/2007 - 06/2012

5 year degree with thesis, \approx M.S.

Technical Skills

Programming languages

Python (sklearn, pandas, numpy, xgboost, keras, spaCy, flask)

R (data.table, mgcv, bms)

javascript (DC.js, D3.js), unix, java

Tools/technologies

git, sql, AWS (s3, ec2, emr, cloudformation)

Competences

Machine Learning, Statistics, Deep Learning, Natural Language Processing, Econometrics

Awards

- 2019 **Awardee (29th out of 785)**, Google code jam to I/O
- 2018 **Awardee (8th out of 1165)**, Google code jam to I/O
- 2014-2016 **William Larimer Mellon fellowship**, Carnegie Mellon University
- 2013-2014 **BP Scholarship**, New Economic School

Presentations

PyCon 2019

Cleveland, OH

SPEAKER

2019

Lessons learned from building a community of Python users among thousands of analysts (with I-Kang Ding and Ariel M'ndange-Pfupfu).

Program Committees

2018 **Volunteer Coordinator**, PyData DC

Washington, DC

2018 **Program Reviewer**, SciPy Conference

Austin, TX

Volunteer Experience

Women Who Code

Washington, DC

ALGORITHMS LEAD

01/2018 - present

- Leading bi-weekly meetups where I teach algorithms and problem solving

Economics and Mathematics School, Moscow State University

Moscow, Russia

MATH INSTRUCTOR

09/2007 - 05/2008

- Led weekly recitations for senior high school students.
- Facilitated students' understanding of the upper-school level mathematics.
- Developed course materials: lectures, handouts, home assignments.

Academic Experience

Tepper School of Business, Carnegie Mellon University

Pittsburgh, PA

TEACHING ASSISTANT IN DATA MINING

03/2016 - 05/2016

- Constructed from scratch class-long demonstrations of machine learning methods in **R**
- Coached student teams on the course projects
- Created examples of applying data mining techniques to be used in the instructor's lectures
- Developed assignments relevant to the course topics

Tepper School of Business, Carnegie Mellon University

Pittsburgh, PA

TEACHING ASSISTANT IN STRATEGIC IT

03/2016 - 05/2016

- Provided written and oral feedback to MBA students
- Assessed students' comprehension of the course material

New Economic School

Moscow, Russia

TEACHING ASSISTANT IN MATH FOR ECONOMISTS

09/2013 - 01/2014

- Conducted weekly recitations and office hours for graduate students
- Graded quizzes and exams

Languages

English fluent

Russian native

German basic