

# Olga Seraya

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## EDUCATION

### MOSCOW INSTITUTE OF PHYSICS & TECHNOLOGY

BS IN APPLIED MATHEMATICS &  
COMPUTER SCIENCE

Grad. July 2021 | Moscow, Russia

GPA: 3.2 / 4.0

#### BACHELOR THESIS

Subject: GAN-based methods applied to generating adversarial examples against face-recognition models.

## COURSEWORK

- Algorithms & Data Structures
- Theory and Practice of Concurrent Computing
- Linear Algebra
- Machine Learning
- Deep Learning in Natural Language Processing
- High-load system design
- Software Design Patterns

## SKILLS

### PROGRAMMING LANGUAGES & TECHNOLOGIES

Recent experience:

APIs • C • C++ • Docker

CSS • Flask • HTML • Java

Keras •  $\text{\LaTeX}$  • Python

Pytorch • SQL • Tensorflow

Familiar:

Django • JavaScript • Unix

### HUMAN LANGUAGES

Russian (native) • English

## INTERESTS

### NATURAL LANGUAGE PROCESSING

Studied different NLP problems (text classification, generation, summarization, POS-tagging etc.). Participated in kaggle competition on tweet sentiment extraction in a team.

## EXPERIENCE

### SBER

#### JUNIOR DATA SCIENTIST

Since Jan 2021 | Python: Tensorflow, Docker, Selenium | Moscow, Russia

- Developed a ranking model for optimizing the call center routine.
- Developed image classification models for automation of the moderation process. Wrote scripts & Docker containers for building them into the deployment process.
- Worked on automating the process of the assignee monitoring: developed an application for collecting necessary data through web scraping.
- Wrote reports and made presentations for regular team demos.

#### DATA SCIENCE INTERN

June 2020 – Jan 2021 | Python: Pytorch, Tensorflow, Flask | Moscow, Russia

- Implemented an extraction-based algorithm for generating summary for short documents. Developed a Flask application for building it into the deployment process.
- Applied different abstraction and extraction -based methods (including fine-tuning BERT-based architectures, and implementing recurrent and transformer neural networks from scratch) for improving the quality of summary generation.
- Worked on Recurrent AutoEncoder model for outlier detection in text data.
- Worked on increasing the quality of a scoring model currently being used for simplifying the process of restructuring for legal entities.

## PROJECTS

### QRATOR LABS

Jan 2020 – May 2020 | C++, Python | Moscow, Russia

- Worked in a team developing a framework for detecting heavy hitters: finding the set of flows contributing significant amounts of traffic to a link.
- Implemented Space Saving & Count-Min sketch -based algorithms for traffic filtering.
- Worked on optimizing the framework: implemented queue-based algorithm for better traffic imitation while testing, refactored code.
- Maintained performance dashboards for displaying quality metrics and memory usage.
- Organized team meetings and communication, managed the documentation of the work process and formulated the tasks for other team members.