Semyon Zhuvertsev

BACHELOR STUDENT IN COMPUTER SCIENCE

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Education

ITMO University (Bachelor in Computer Science)   *Saint-Petersburg, Russia*

RELEVANT COURSEWORK: *Sep. 2018 — Jun. 2022*

Algorithms and data structure, Mathematical analysis, Probability theory,
Linear algebra, Machine learning, Parallel programming

Experience

Tinkoff   *Moscow, Russia*

MACHINE LEARNING RESEARCHER   *Feb. 2022 - Present*

- Research of the **interpretability methods** of transformers for transactional operations.

Yandex   *Moscow, Russia*

MACHINE LEARNING INTERN-ENGINEER   *June 2021 - September 2021*

- Developed and improve a feature that highlights a **relevant fragment** in a video **on query** for Yandex search engine and web portal. Using **BERT model** for scoring query and text snippets by text from speech. Main tasks were **improve** BERT's scores and data processing.

Skills

Languages   Python, Java, C++, Bash, SQL

Technologies   Git, Linux, Pytorch, Tensorflow, Pandas, Scikit-learn

Additionally   Knowledge of algorithms and data structures, Solid acquaintance with OOP, Machine learning, Deep learning

Projects

JetBrains   ⚲ *Fraks51/ICLR20-Great*

IMPORTANCE OF CODE REPRESENTATIONS FOR ML4SE   *Oct. 2021 - Dec. 2021*

- Researching on importance of code representations for ML4SE. The source code was taken from the repository that implements GREAT and other global relational models. On this code base compares various methods of code representations: fullword, **BPE** and **ULM** tokenization.

ITMO University   ⚲ *Fraks51/AutoClustering_spark*

AUTOCLUSTERING   *April 2020 - June 2020*

- Working on **AutoML framework for clustering framework on Apache Spark**. Developed such metrics as **Calinski-Harabasz** and **Davies–Bouldin** indices on Spark for framework.

Huawei   ⚲ *Fraks51/Compressor*

LZ COMPRESSOR   *April 2019 - June 2019*

- Application used **Lz77 compress algorithm** with speed acceleration on **C++**. The project used the **suffix array** for fast search similar strings

Awards

Kaggle competition bronze medal

BRONZE MEDAL - **TOP 7 % OUT OF 3,537 PARTICIPATING TEAMS** ON PETFINDER KAGGLE-PLATFORM COMPETITION.   *2022*

Advanced University Scholarship for academic achievements   *Saint Petersburg, Russia*

ITMO UNIVERSITY, WAS AWARDED A SCHOLARSHIP BY HUAWEI FOR **ACADEMIC SUCCESS**.   *2020*

Russian National Student Competition "Higher standard" held by HSE   *Moscow, Russia*

MATHEMATICS, **PRIZE-WINNER** OF 4742 PARTICIPANTS   *2018*

Russian National Student Competition "Robofest" held by MSU   *Moscow, Russia*

PHYSICS, **PRIZE-WINNER** OF 1300 TEAMS   *2018*