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Michael Solotky

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• https://github.com/MichaelSolotky

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EDUCATION

BSc in Applied Mathematics and Computer Science, IV year

• Lomonosov Moscow State University
Faculty of Computational Mathematics and Cybernetics, GPA 4.85 / 5.0

September 2015 – June 2019

Continuing with the Master's degree afterwards, expected graduation in 2021

EXPERIENCE

• Voice technology department of Yandex Software Engineering Intern (Back-end development) $June\ 2018-October\ 2018$

- Implemented several methods of probability smoothing and their modification in language models for Automatic Speech Recognition
- Carried out experiments on quality measurement to find the best model among all
- Implemented an optimal algorithm for constructing n-gram language models in C++ using MapReduce, which decreased wall time by at least 3 times and slightly increased quality measure comparing to the baseline
- Wrote a complete framework with a set of operations available from CLI

PROJECTS

• BigARTM (C++ Boost/STL, Protobuf, Travis, AppVeyor)

January 2017 – present

Open Source library for topic modelling that supports multiple regularization

- github.com/bigartm/bigartm
 - Developed a tool for parallel calculation of pairwise word statistics such as frequency of mutual occurrence, PMI in text corpus of unlimited size

Wikipedia full-text processing takes 6 hours on octa-core intel core i5 8th gen

• Responsible for parsing of input data

OTHER EXPERIENCE

• Primality test (C++)

Implementation of Miller test for deterministic checking of large numbers for primality as part of the Kaspersky Lab information security course

Wall time on prime numbers of length 100 is about 4 seconds

- github.com/MichaelSolotky/sandbox/tree/master/Cpp_old_tasks/Primality_tests
- ML (NumPy, Scipy)

Implementation of various ML algorithms from scratch

github.com/MichaelSolotky/sandbox/tree/master/ML

TECHNICAL SKILLS

- Used at work: C++, Python, C, Bash
- Basic knowledge: SQL, Assembly language
- Technologies: C++ Boost, CMake, Make, Protobuf, MapReduce, SciPy, Scikit-learn, NumPy, Pandas, Pytorch
- Tools: Git, Subversion, UNIX/Linux, Travis, AppVeyor, LATEX