

Sergei Bogdanov

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EDUCATION **Moscow Institute of Physics and Technology**, Dolgoprudny
Department of Innovations and High Technology
Bachelor of Applied Mathematics and Computer Science
September 2018 - August 2022. GPA: 7.93/10.00
Data Analysis Department by Yandex
Student of Advanced Deep Learning and Advanced Algorithms classes

TECHNICAL SKILLS **Languages :** Python, C++, C
Database : PostgreSQL
Tools/Framework : Hadoop, Pytorch, SkLearn, NumPy, Pandas, Matplotlib, Torch Geometric, SciPy, Seaborn, Wandb
General : Machine Learning, NLP, Advanced Algorithms and Data Structures, Object Oriented Programming and Concurrency

WORK EXPERIENCE **JetBrains NLP researcher** July - early September

- Used classical NLP methods and Graph Convolutional Neural Networks for method name generation task. **My best result is 5% better than Code2Vec model and comparable to Code2Seq model** with disabled Attention (my model didn't have an attention mechanism too)
- Researched difference in common patterns generated by the models above
- Used classical NLP methods and Graph Convolutional Neural Networks for CodeSearchNet task. **Top-20% out of all participants.**
- Developed vertex classification system which **covers more than 98% of all possible cases with extremely low memory usage.** My algorithm is **8 times more memory-efficient than simple greedy approach and shows 10% better coverage on bigger dictionary sizes.**

Olympiads

- **BMSTU Informatics Olympiad** *Absolute winner.*
- **ITMO Informatics Olympiad** *Awardee.* Top-3%
- **Moscow State University Math Olympiad** *Awardee.* Top-5%
- **All Russian Informatics Olympiad** Top-5%
- **Moscow State University Informatics Olympiad** Top-6%

CERTIFICATION **Reinforcement Learning and Unsupervised Learning**
by Moscow Institute of Physics and Technology and Yandex

CS224n: Natural Language Processing with Deep Learning
by Stanford University and DeepPavlov

FAVORITE PROJECT **Currency exchange rate bot** May 2019

Telegram bot, which can send currency exchange rates, provided with the database (to make calculations easier) and exchange rate visualizer.

- **Technology/Tools:** Python, SQLite3, TeleBot, Matplotlib and SciPy.
- **Link :** <https://github.com/Serega6678/Python/tree/master/PythonCodeReview2-master>

OTHER PROJECTS & HYPERLINKS

- Kaggle competition solutions
- Laptop Manufacturer's Database
- Cryptocurrency market analysis with Python, Pandas, NumPy and Matplotlib
- C++ single player game (programming patterns utilization)
- C++ advanced algorithms implementation