

Sergei Bogdanov

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EDUCATION	<p>Moscow Institute of Physics and Technology, Dolgoprudny Department of Innovations and High Technology <i>Bachelor of Applied Mathematics and Computer Science</i> September 2018 - August 2022. GPA: 7.93/10.00 <i>Data Analysis Department by Yandex</i> <i>Student of Advanced Deep Learning and Advanced Algorithms classes</i></p>
TECHNICAL SKILLS	<p>Languages : Python, C++, C Database : PostgreSQL Tools/Framework : Pytorch, Torch Geometric, SkLearn, NumPy, Pandas, SciPy, Matplotlib, Seaborn, Wandb General : Machine Learning, NLP, Advanced Algorithms and Data Structures, Object Oriented Programming and Concurrency</p>
WORK EXPERIENCE	<p>JetBrains NLP researcher July - early September</p> <ul style="list-style-type: none">• Used classical NLP methods and Graph Convolutional Neural Networks for method name generation task. The models were using abstract syntactic tree as an argument. 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 (the goal is to find the code from the given dataset by it's description) Top-20% out of all participants.• Held a research about common AST structure patterns and 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.
FAVOURITE PROJECT	<p>Currency exchange rate bot May 2019</p> <p>Telegram bot, which can send currency exchange rates, provided with the database (to make calculations easier) and exchange rate visualizer.</p> <ul style="list-style-type: none">• Technology/Tools: Python, SQLite3, TeleBot, Matplotlib and SciPy.• Link : https://github.com/Serega6678/Python/tree/master/PythonCodeReview2-master
OTHER PROJECTS & HYPERLINKS	<ul style="list-style-type: none">• 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
CERTIFICATION	<p>Reinforcement Learning and Unsupervised Learning by Moscow Institute of Physics and Technology and Yandex Verify : https://www.coursera.org/account/accomplishments/verify/EYHNNNPLTXH8, Verify : https://www.coursera.org/account/accomplishments/verify/MNQT3WN3B78C</p> <p>CS224n: Natural Language Processing with Deep Learning by Stanford University and DeepPavlov Course repository.</p>