Nikita Semenov

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WORK EXPERIENCE

Skolkovo Institute of Science and Technology (Skoltech) 2/2022 — 8/2022

Junior research engineer

Framework to automatic neural architecture search (NAS) for VTB
Responsibilities:
- Research NAS approaches
- Design searchspace
- Testing algorithms
- Integration working solutions into framework
- Writing documentation to framework

Algorithm stack:
- Hyperband, differentiable NAS, train-free NAS, bayesian networks
- Transformers, RNNs, ConvNets

Tech stack:
- Python, Pytorch, pandas, numpy, seaborn, sphinx
- Docker, VS code, Git

Project status: all tasks completed

Neiry 2/2022 — 6/2022

Junior research engineer

Emotion recognition via EEG
Responsibilities:
- Research EEG preprocessing
- Feature selection
- Design models for small data
- Analysis of data via end-to-end pipeline
- Recommendation about experiment design

Algorithm stack:
- FFT, Wavelet analysis, ICA, Notch and Butterworth filters
- EEGNet, gradient boosting, NeuralODE, MRMR

Tech stack:
- Python, Pytorch, pandas, numpy, mne, pywavelets
- JupyterLab

Project status: this project was of a research nature in order to indentify possible directions for development and

commercialization. Despite the fact that the results obtained indicate the possibility of continuing research, the potential for commercialization was considered insufficient, and the project was frozen

Moscow State University 24/8/2022 — 31/8/2022

Lecturer

Student summer school by "Intellect" foundation and MSU department of mechanics and mathematics
Responsibilities:
- Writing 11 lectures and seminars to course
- Giving my lectures and seminars to students

Github: https://github.com/Serega200010/MM_summerschool_2022

Freelance 8/2020 — until now

Online Tutor

Prepare students to EGE and olympiads

SKILLS

- Python (Pytorch, Pandas, Numpy, Sklearn, Matplotlib, Seaborn, MNE, etc.)
- Classical ML, Deep Learning, RL, NAS
- Many parts of higher mathmatics
- Working environment (VS code, Docker, Github, Anaconda, Sphinx, etc.)
- Fluently reading any scientific literature on English, speaking English
- Time management, self-organization, online working
- Transformers, ConvNets, GANs, NAS, RL, RNN, etc.

EDUCATION

Department of mechanics and mathematics 9/2019 — until now

Moscow State University

I took an academic leave, so now I'm the third year student

QUALIFICATIONS

Second place at the "Leaders of Digital Transformation 2021" hackathon
Third place at the "Digital Breakthrough 2021: Fintech" hackathon

GitHub: https://github.com/zer0o0ne