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: necessary conclusions was developed, project was freezed

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