

Anton Ivanov

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EDUCATION

Higher School of Economics: Faculty of Computer Science (HSE.ru)
Data Science and Business Analytics

September 2019 - Present
GPA: 8.9/10.0

WORK EXPERIENCE

Various Institutions

Teaching Assistant

September 2019 - December 2021
Moscow, Russia

- Teaching assistant in Physics and Programming for 9-11 grade school students
- Teaching assistant in Discrete Mathematics for 1st year students
- Teaching assistant in Statistics for 2nd year students

JetBrains Research: ML4SE laboratory

Machine Learning Researcher

May 2021 - May 2022
Moscow, Russia

- Development of AntiCopyPaster plugin for IntelliJ IDEA IDE used for extracting unnecessary code duplicates at the origination time
- Design and implementation of Data-Engineering pipeline for the plugin development based on analysis of history of GitHub repositories (e.g. apache/kafka)
- Editing and proof-reading of the article for conference and journal submission

Tinkoff

Product Analyst

August 2022 - Present
Moscow, Russia

- Creation of Data Marts for further investigation of points of grow for companies products
- Making of reports in Python and Tableau

PROJECTS

Road Traffic Problem

Prof. Lukianchenko Petr, HSE

November 2020 - May 2021
github.com/Olenek/Road-Traffic-Problem

- Empirical analysis of applicability of machine learning in systems controlling of road traffic (e.g. traffic lights)
- Experiments with simulations of 4-way multi-lane intersection with various types of traffic scenarios: from low to high density, etc.
- Training and evaluation of Deep Reinforcement Learning model with later analysis of best use-cases and value
- Study committee verdict: Excellent (10) grade

Analysis of EEG when listening to the Music

Prof. Chernyshev Vladimir, HSE

November 2021 - May 2022
github.com/Olenek/gan-plus-midi

- Design and Implementation of a modifiable multi-purpose pipeline for generation of music with emotion-based input
- Usage of Generative Adversarial Networks with Wasserstein distance based loss-function for creating of midi note charts of instrumental music from various emotional classes
- Study committee verdict: Excellent (10) grade

AntiCopyPaster

JetBrains Research

May 2021 - May 2022
github.com/JetBrains-Research/extract-method-experiments

- Development of data-extraction tool based on RefactoringMiner for the purposes of finding examples of duplicates that code developers choose to extract into separate methods or otherwise
- Usage of sklearn, PyTorch, TensorFlow modules in designing several solutions for the problem
- Development of the plugin in Kotlin and Java
- Inference of python-origin machine learning model in Java

TECHNICAL SKILLS

Coding Languages: C++, C, Python, Java, JS, Kotlin, R

Web Technologies: HTML, CSS, JS, Django, Flask

ML, DataScience: PyTorch, TensorFlow, NumPy, Pandas, Matplotlib, Plotly

Miscellaneous: SQL, Git, Bash, LaTeX, Tableau, MS Office

RELEVANT COURSES

Computer Science: Machine Learning, Algorithms and Data Structures, Databases, Computer Architecture and Operating Systems

Mathematics: Discrete Math, Mathematical Methods (Algebra, Calculus, Differential Equations), Statistics, Time Series and Stochastic Processes, Optimization Methods