Timur Lidzhiev

trlidzhiev@gmail.com tlidzhiev tlidzhiev @trlidzhiev

Education

HSE University **Sep. 2021 — Expected June 2025**

Bachelor of Science in Computer Science *GPA: 8.3/10*

Relevant Coursework

- Machine Learning
- Numerical Analysis
- Linear Algebra
- Probability and Statistics
- Real Analysis
- Python for Data Science
- Python Programming
- C++ Programming

Experience

University Project: PINNs Research **Nov. 2023 – Expected May 2024**

HSE Univeriry

- Investigating optimal strategies for handling differential equations with discontinuous functions in the Physics Informed Neural Networks (PINNs) project
- Implementing specialized loss functions that effectively address the challenges posed by the presence of discontinuous functions in the differential equations
- Evaluating the performance of different numerical methods and algorithms in capturing the behavior of discontinuous functions within the PINNs framework

Projects

Image Processor | *C++, STL* **Nov. 2023**

- Created the console application for BMP image processing
- Implemented kernel filters and a convenient base for creating new filters using std::variant
- Implemented the most efficient filter algorithms

Extracurricular

Teacher Assistant for Numerical Analysis Course **Jan. 2023 — June 2024**

HSE University

- Develop and administer quizzes, midterm and final exams, and homework assignments
- Assess and analyze student performance, providing valuable feedback
- Provide professional support to a group of 30 students during weekly consultation sessions, addressing their inquiries, clarifying complex concepts, and assisting them in successfully mastering the course material

Teacher Assistant for Math for Data Science Course **Sep. 2024 — Jan. 2024**

Yandex School for Data Analysis

- Evaluated homework assignments for 50 students in Linear Algebra, Real Analysis, and Probability Theory
- Assessed and analyzed student performance, offering valuable feedback

Technical Skills

Languages: Python, SQL, C++

Frameworks: TensorFlow, Pytorch, Keras, Scikit-Learn, Sci-Py, Numpy, Pandas, Plotly, Matplotlib, Seaborn