

# TIMUR LIDZHIEV

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## EDUCATION

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### HSE University

*Master of Science in Machine Learning*

Moscow, Russia

Sep. 2025 — Present

### HSE University

*Bachelor of Science in Computer Science — GPA: 3.8/4.0*

Moscow, Russia

Sep. 2021 — June 2025

## EXPERIENCE

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### Machine Learning Engineer, R&D Geo Team

June 2024 – Present

*VTB Bank — Top-3 Russian Bank*

*Moscow, Russia*

- Trained and inferred a Gradient Boosting model ranking ATM sites across Russia's major cities using geo-spatial features
- Matched gradient-boosting accuracy on apartment price prediction with advanced tabular DL architectures
- Built PySpark pipelines to prepare large-scale training datasets for model development

### Undergraduate Research Assistant

Sep. 2024 – Present

*HSE University*

*Moscow, Russia*

- Accepted for presentation at EAGE 2025 conference
- Implemented integral loss for differential equations with discontinuous solutions in porous fluid systems
- Implemented scalable framework for solving PDEs with high-dimensional spatial domains

## EXTRACURRICULAR

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### Teaching Assistant

Sep. 2024 — Jun. 2025

*HSE University*

- Led tutorials, exams, and office hours for ~170 students; prepared and graded coursework
- Designed assignments and applied projects:
  - Spectral clustering with in-house Power/QR eigensolvers; benchmarked against `scikit-learn`
  - Monte Carlo integration (Rejection/Importance Sampling/Metropolis–Hastings)
  - Interpolation for approximation/validation
  - Optimization for ML/DL (Newton, SGD, autodiff)

### Teaching Assistant

Sep. 2023 — Jan. 2024

*Yandex School of Data Analysis*

- Evaluated homework and outcomes for 50 students in Linear Algebra, Real Analysis, and Probability & Statistics; provided actionable feedback

## TECHNICAL SKILLS

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**Languages:** Python, SQL (Postgres), C++

**Libraries:** Pytorch, Jax, Hugging Face, PySpark, CatBoost, Scikit-Learn, Numpy, Pandas, Sci-Py