

Sanjar Adilov | Curriculum Vitae

✉ sshadylov@gmail.com • 🌐 sanjaradylov.github.io • 🌐 sanjaradylov

ML Software Engineer, BSc in Applied Math and Computer Science. Broadly interested in machine learning, esp. deep learning and its applications in natural language processing. Working on full-stack research and development of conversational AI experiences.

Employment

Data Scientist

Alif Tech

Aug 2022 – Present

Tashkent, Uzbekistan

- Modeling, development & operationalization of a task-oriented, closed-domain conversational AI assistant.
- Little bit of backend and/or modeling for document OCR, credit scoring, transaction fraud monitoring.

Research Engineer II

Romanovsky Institute of Mathematics, Academy of Sciences of Uzbekistan

Jan 2021 – Aug 2022

Tashkent, Uzbekistan

Adapting deep learning for drug design by building a unified framework for downstream generative and supervised molecular tasks via large-scale causal transformers (see, e.g., `smiles-gpt`).

Research Assistant

Romanovsky Institute of Mathematics, Academy of Sciences of Uzbekistan

Jan 2019 – Dec 2020

Tashkent, Uzbekistan

- Single-/multi-output classification of high-dimensional molecular data (see, e.g., `sparse-chem1`).
- Improvement of SOTA generative molecular models (see, e.g., `moleculegen`).
- Survival analysis of patients with COVID-19 in Uzbekistan.

Research Engineer I

Romanovsky Institute of Mathematics, Academy of Sciences of Uzbekistan

Sep 2018 – Dec 2018

Tashkent, Uzbekistan

ML for low-data QSPR/QSAR modeling using graph neural networks (see, e.g., `nitrocom-learning`).

Intern

Misc.

Jun 2017 – Aug 2018

Tashkent, Uzbekistan

Several internships. Mostly bash scripting and basic frontend & backend development.

Education

BSc in Applied Mathematics and Computer Science

Lomonosov Moscow State University in Tashkent

Sep 2014 – Jun 2018

Tashkent, Uzbekistan

- Main coursework include pure & applied math, intelligent systems, and scientific computing.
- Research and thesis on graph theory (coloring and planarity testing).
- Volunteer instructor at Math and Programming Club for prospective students.
- ACM-ICPC NEERC contestant.

Publications

Adilov, Sanjar (2021): **Generative Pre-Training from Molecules**. ChemRxiv. Preprint.

<https://doi.org/10.33774/chemrxiv-2021-5fwjd>

S.Sh. Adilov. **An upper bound for the chromatic number of graphs with given thickness and girth**. In *Intelligent systems. Theory and applications*, volume 22, issue 3, 2018.

And more in my **Google Scholar**: <https://scholar.google.com/citations?user=NzU11nAAAAAJ>

Skills

- **Programming Languages**: Python 🐍, Bash, SQL, \LaTeX , C, R.
- **Tools**: [DS] PyTorch ⚡, Scikit-Learn, Pandas, etc.; [MLE] DVC, MLFlow; [SE] Git, Sanic, Docker, K8S.
- **Concepts & Practices**: Scientific Research, CI/CD, Scrum, OSSD.

Misc.

- **Community Service**: Mentoring in hackathons (one has eventually become an integral part of our credit scoring ecosystem); public presentations on DL life cycle, foundational models.
- **Side Projects**: `scikit-fallback`: machine learning w/ rejections (on Medium and Github).
- **Hobbies**: Guitars, music, books, movies, swimming.