

Sanjar Adilov | Curriculum Vitae

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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.

Skills

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

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.

Miscellaneous

- **Publications:** <https://scholar.google.com/citations?user=NzU11nAAAAAJ>
- **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.
- **Languages:** Uzbek (native), Russian (full proficiency), English (TOEFL 95).