Sanjar Adilov | Curriculum Vitae

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ML Software Engineer w/ 7 years of experience, BSc in Applied Math and Computer Science. Broadly interested in machine learning, esp. efficient and reliable deep learning for natural language processing. Working on full-stack research and development of conversational AI experiences. Also have research experience in machine learning for computational chemistry, such as molecular representation learning.

Employment

Data Scientist

Alif Tech

- End-to-end development of task-oriented, closed-domain AI assistants for automation of customer experiences. Responsibilities include data curation, modeling, evaluation, operationalization, and maintenance. Some of the specific concepts are parameter-efficient fine-tuning, contrastive learning, named-entity recognition, and resource-efficient & scalable deployment of DL pipelines. The major results are 68-72% of containment rate w/ $\gtrsim 97\%$ coverage of chats through all contact channels in ≤ 2 seconds of response time and estimated $\leq 90\%$ of end-to-end accuracy, incl. 48-65% of task success B. Whew!
- Little bit of backend and/or modeling for document OCR, credit scoring, transaction fraud monitoring, and domain-specific topic modeling.

Research Engineer II

Romanovsky Institute of Mathematics, Academy of Sciences of 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

• 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

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

Intern Misc.

Several internships. Mostly bash scripting and basic frontend & backend development w/ Python and JavaScript.

Skills

- Programming Languages: Python 🗞, Bash, SQL, LareX, C, R.
- Tools: [DS] PyTorch, Lightning 4, Tensorflow, Jax & co., 😳, Transformers & co., Keras, Scikit-Learn & co., XGBoost & friends 4, Pandas, etc.; [MLE] DVC, MLFlow, Haystack; [SE] Git, Sanic, FastAPI, AIOHTTP, Pytest, Docker, K8S.
- Concepts & Practices: Scientific Research, CI/CD, Scrum, OSSD, MLOps.

Education

BSc in Applied Mathematics and Computer Science

Lomonosov Moscow State University in Tashkent

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

Misc.

- Publications: https://scholar.google.com/citations?user=NzU11nAAAAAJ
- Languages: Uzbek (native), Russian (full proficiency), English (TOEFL 108/120, 2024).
- 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, tabular learning, etc.
- Side Projects: scikit-fallback: machine learning w/ rejections (more on Medium and Github).
- Github Profile: http://github.com/sanjaradylov
- Kaggle: http://kaggle.com/sshadylov
- Medium: https://medium.com/@sshadylov
- StackExchange: https://stackexchange.com/users/9338787/sanjar-adylov
- Hobbies: Guitars, US & Soviet history, classic rock music, fiction books, old movies, swimming.

Sep 2014 - Jun 2018

Tashkent, Uzbekistan

Aug 2022 – Present Tashkent, Uzbekistan

Jan 2019 - Dec 2020

Tashkent, Uzbekistan

Sep 2018 - Dec 2018 Tashkent, Uzbekistan

Jun 2017 - Aug 2018 Tashkent, Uzbekistan

Jan 2021 – Aug 2022

Tashkent, Uzbekistan