Sanjar Adilov | Curriculum Vitae

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sanjaradylov

Providing AI solutions for over 7 years. Broadly interested in ML, esp. efficient and reliable DL for NLP. Working on graph optimization and analysis for warehouses. Experienced in full-stack research & development of conversational AI experiences and ML for comp. chemistry.

Employment

Software Engineer   **May 2025 – Present**
EPAM Systems   *Tashkent, Uzbekistan*

- R&Ding graph optimization algorithms (path coverage, nearest-neighbor search, etc.) for SLAM.
- Building structured data processing and inferential analysis pipelines on demand.
- Enhancing API integrations with scalability, faster inference, and resource efficiency.

Data Scientist / Machine Learning Engineer   **Aug 2022 – Apr 2025**
Alif Tech (Alif IT, Alif Uzbekistan)   *Tashkent, Uzbekistan*

- Designed and developed closed domain task-oriented AI assistants for the automation of customer experiences. Responsibilities included data curation, modeling & evaluation, operationalization, and maintenance. Some of the specific concepts involved were parameter-efficient fine-tuning, contrastive learning, named-entity recognition, and resource-efficient & scalable deployment of deep learning pipelines. Principal results: $68\text{-}72\%$ of *containment rate* w/ $\gtrsim 97\%$ *coverage* of chats through all contact channels in ≤ 2 seconds of *response time* and estimated $\lesssim 90\%$ of *end-to-end precision*, incl. $48\text{-}65\%$ of *task success* ☺. Whew!
- Contributed to the advancement of credit scoring, document OCR, transaction fraud detection, and employee engagement services.

Research Engineer   **Jan 2021 – Aug 2022**
Romanovsky Institute of Mathematics, Academy of Sciences of Uzbekistan *Tashkent, Uzbekistan*

- Trained multi-task autoregressive language models on large clusters. Achieved state-of-the-art performances in open-ended generative molecular tasks as well as downstream supervised tasks. Published technical reports.
- Designed and built AI environments for low-data high-dimensional supervised learning and graph deep learning.
- Collaborated with local and international research labs on molecular-property prediction and survival analysis. Spoke at seminars.

Developer Intern   **Jun 2017 – Aug 2018**
Misc.   *Tashkent, Uzbekistan*

Completed multiple internships focused on payment systems and computer networks. Developed Bash, JavaScript, and Python scripts to add functionality, optimize code, and automate routine tasks, enhancing operational efficiency.

Skills

- **Concepts & Practices**: Deep Learning, Statistics, Graph Algorithms, Optimization, Scientific Research, CI/CD, Scrum, OSSD, MLOps.
- **Programming Languages**: Python 🐍, Bash, SQL, LaTeX, C, C++, R.
- **Tools**: *[DS]* PyTorch, Lightning ⚡, Tensorflow, Jax & co., 🤗 Transformers & co., Keras, Scikit-Learn & co., XGBoost & friends ⚕, Pandas, etc.; *[MLE]* DVC, MLFlow, Haystack, Langchain, etc.; *[SE]* Sanic, FastAPI, AIOHTTP, Pytest, Docker, K8S, Grafana, etc.

Education

BSc in Applied Mathematics and Computer Science   **Sep 2014 – Jun 2018**
Lomonosov Moscow State University in Tashkent   *Tashkent, Uzbekistan*

- 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.

- **Research**: 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.