

Akhmadjonov Mumtozbek

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EDUCATION

- **Moscow Institute of Physics and Technology** Moscow, Russia
Bachelor in Applied Math and Computer Science *Sept. 2019 – Aug. 2023*

EXPERIENCE

- **DeepPavlov** MIPT, Dolgoprodny
Research Intern *Feb 2022 - May 2022*
 - **Controllable Generation:** Achieved a similar performance with (DialoGPT) using special tokens compared to the approach leveraging projected attention layers (PALs) to control different dialogue attributes. Reviewed dozens of articles on corresponding topics on ArXiv.
- **DeepPavlov** MIPT, Dolgoprodny
Junior Researcher *Sept 2022 - present*
 - **Automatic Dialogue Graph Construction:** Developed approaches to evaluate the method on different dialogue datasets. Co-authored a paper accepted to AINL 2023.
 - **User feature extraction & inference from dialogues:** Outperformed the approach described in the article in user attribute extraction with SOTA transformer architectures.

TECHNICAL SKILLS

- **Languages:** Python, C, C++, Java, JavaScript, x86
- **Technologies:** PyTorch, HuggingFace Transformers, scikit-learn, numpy, pandas, matplotlib, seaborn, Keras, ReactJS, Git, Kubernetes, Docker
- **Knowledge:** Classical ML, DL, Statistics & Probability Theory, Convex Optimization

PUBLICATIONS

- **Neuroinformatics 2022 NN workshop:** Presented the poster describing controllable DialoGPT.

PROJECTS

- **Controllable DialoGPT:** Flask API to connect to a chat client that uses the model trained in the notebook.
- **AlgosML:** Classical ML & DL algorithms' implementations from scratch.
- **Custom STL:** My own collection of algorithms and data structures implementations with C++ templates.

ACHIEVEMENTS

- **Tinkoff & MSU Math Contest 2021 Winner:** winner diploma
- **Open Doors 2023 International Student's olimpiad Math & AI winner:** winner diploma
- **Open Doors 2023 International Student's olimpiad CS & DS winner:** winner diploma
- **Skolkovo Hack 2022:** Top-4 with team "ProDaters"

LANGUAGES

- **Uzbek:** Native **Russian:** Bilingual proficiency **English:** Advanced (C1) **Spanish:** Elementary (A2)

JOB INTERESTS

- **Data Science & Machine Learning Engineer/Researcher:** NLP, Conversational AI, Generative models (GPT family)