

Akhmadjonov Mumtozbek

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EDUCATION

- **Moscow Institute of Physics and Technology** Moscow, Russia
Bachelor in Applied Math and Computer Science; GPA: 4.35 / 5.00 Sept. 2019 – Aug. 2023
- **Academic Lyceum of Westminster International University in Tashkent** Tashkent, Uzbekistan
High School; GPA: 5.00 / 5.00 Sept. 2017 – June. 2019

EXPERIENCE

- **DeepPavlov** MIPT, Dolgoprudny
Research Intern Feb 2022 - May 2022
 - **Controllable Generation:** Conducted research on controllable generation in dialogue models (DialoGPT) using special tokens and projected attention layers (PALs) controlling different dialogue attributes. Reviewed dozens of articles on corresponding topics on ArXiv.
- **DeepPavlov** MIPT, Dolgoprudny
Junior Researcher Sept 2022 - present
 - **Automatic Dialogue Graph Construction:** Conducting research on sampling dialogue subgraphs based on given constraints and evaluating the proposed method on different datasets. Achieved a better performance in user attribute extraction compared to the model proposed in the article. Reviewing dozens of articles on corresponding topics on ArXiv.
 - **User feature extraction & inference from dialogues:** Developing models to extract entity-relation triples and constructing user persona from their dialogues. Achieved a better performance in user attribute extraction compared to the model proposed in the article. Reviewing dozens of articles on corresponding topics on ArXiv.

RESEARCH INTERESTS

- **NLP:** Generative models (GPT family)

PUBLICATIONS

- **Neuroinformatics 2022 NN workshop:** Controllable DialoGPT poster:
https://github.com/mumtozee/Documents/blob/main/rnns_dialogpt.pdf

PROJECTS

- **Controllable DialoGPT:** Flask API to connect to a chat client that uses the model:
<https://github.com/mumtozee/TokenControlledBaselineService>
Model training notebook:
https://github.com/mumtozee/InnPrac2022/blob/main/baseline/main_baseline.ipynb
- **AlgosML:** Classical ML & DL algorithms' implementations from scratch:
<https://github.com/mumtozee/AlgosML>
- **Custom STL:** My own collection of algorithms and data structures implementations with C++ templates:
<https://github.com/mumtozee/CustomSTL>
- **All other projects:** My github: <https://github.com/mumtozee/>

ACHIEVEMENTS

- **Tinkoff & MSU Math Contest 2021 Winner:**
https://github.com/mumtozee/Documents/blob/main/tinkoff_winner_diploma.pdf
- **Open Doors 2023 International Student's olimpiad Math & AI winner:**
https://github.com/mumtozee/Documents/blob/main/opendoors_math_winner_en.pdf
- **Open Doors 2023 International Student's olimpiad CS & DS winner:**
https://github.com/mumtozee/Documents/blob/main/opendoors_csds_winner_en.pdf
- **Skolkovo Hack 2022:** Top-4 with team "ProDaters"

PROGRAMMING 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

LANGUAGES

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

JOB INTERESTS

- **Data Science & Machine Learning Engineer/Researcher:** NLP, Conversational AI