

# Akhmadjonov Mumtozbek

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## EDUCATION

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

## EXPERIENCE

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- **DeepPavlov** MIPT, Dolgoprudny  
*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, Dolgoprudny  
*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

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- **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

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- **Neuroinformatics 2022 NN workshop:** Controllable DialoGPT poster:  
[https://github.com/mumtozee/Documents/blob/main/rnns\\_dialogpt.pdf](https://github.com/mumtozee/Documents/blob/main/rnns_dialogpt.pdf)

## PROJECTS

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- **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

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- **Tinkoff & MSU Math Contest 2021 Winner:**  
[https://github.com/mumtozee/Documents/blob/main/tinkoff\\_winner\\_diploma.pdf](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](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](https://github.com/mumtozee/Documents/blob/main/opendoors_csds_winner_en.pdf)
- **Skolkovo Hack 2022:** Top-4 with team "ProDaters"

## LANGUAGES

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

## JOB INTERESTS

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