

# Akhmadjonov Mumtozbek

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## EDUCATION

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- **Moscow Institute of Physics and Technology** Dolgoprudny, Moscow Oblast', Russian Federation  
*Phystech School of Applied Mathematics and Computer Science* Sept. 2019 – present
- **Academic Lyceum of Westminster International University in Tashkent** Tashkent, Uzbekistan  
*High School; GPA: 5.00 / 5.00* Sept. 2017 – June. 2019

## EXPERIENCE

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- **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. 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. Reviewing dozens of articles on corresponding topics on ArXiv.

## RESEARCH INTERESTS

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

## PROJECTS

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- **Controllable DialoGPT:** The poster of the presented solution from Neuroinformatics-2022 NN workshop: [https://github.com/mumtozee/Documents/blob/main/rnns\\_dialogpt.pdf](https://github.com/mumtozee/Documents/blob/main/rnns_dialogpt.pdf)
- **Poem Generation using LSTM:** Comparison of Vanilla RNN and LSTM in Shakespeare poem generation: <https://github.com/mumtozee/PoetryGenerationLSTM>
- **Custom STL:** My own collection of algorithms and data structures implementations with C++ templates: <https://github.com/mumtozee/CustomSTL>
- **AI Debates web-site (frontend / backend):** A web application for AI powered discussions: <https://github.com/mumtozee/AiDebates> <https://github.com/mumtozee/AiDebatesBackend>
- **Space Shooter:** A 2D shooter game on PyGame engine: <https://github.com/mumtozee/SpaceShooter>
- **All other projects:** My github: <https://github.com/mumtozee/>

## 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"

## PROGRAMMING 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
- **Knowledge:** Classical ML, DL, Statistics & Probability Theory, Convex Optimization

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