Akhmadjonov Mumtozbek

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EDUCATION

- **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

- **DeepPavlov**   MIPT, Dolgoprodny
  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, Dolgoprodny
  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.

RESEARCH INTERESTS

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

PROJECTS

- **Controllable DialoGPT**: https://github.com/mumtozee/InnPrac2022/blob/main/baseline/main_notebook.ipynb
- **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 in templates: https://github.com/mumtozee/CustomSTL
- **AI Debates (front-end)**: A web application for AI powered discussions: https://github.com/mumtozee/AiDebates
- **Space Shooter**: A 2D shooter game on PyGame engine: https://github.com/mumtozee/SpaceShooter
- **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

PROGRAMMING SKILLS

- **Languages**: Python, C, C++, Java, JavaScript, x86

- **Technologies**: PyTorch, HuggingFace Transformers, scickit-learn, numpy, pandas, matplotlib, seaborn, Keras, ReactJS, Git

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

LANGUAGES

- **Uzbek**: Native   **Russian**: Bilingual proficiency   **English**: Advanced (C1)   **Spanish**: Beginner (A1)

JOB INTERESTS

- **Machine Learning Researcher**: NLP