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, scickit-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 diploma
- **Open Doors 2023 International Student's olimpiad Math & AI**: winner diploma
- **Open Doors 2023 International Student's olimpiad CS & DS**: 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)