Azamat Usmanov

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Education

Moscow Institute of Physics and Technology (MIPT)
Faculty of Radio Engineering and Cybernetics *2021 - Present*

- Specialization: Applied Mathematics and Physics
- Department: Multimedia Technologies and Telecommunications
- GPA: 4.3/5
- Academic Excellence Scholarship recipient

Work Experience

Huawei Research Institute
Assistant Engineer *July 2024 - February 2025*

- Research and implementation of Large Language Models (LLMs)
- Focus on optimizing and evaluating model performance

Skills

Programming Languages: Python, C/C++, MATLAB

Python Tools: NumPy, Pandas, PyTorch, Matplotlib, Scikit-learn, NLTK

NLP: Word2Vec, Trasnformers, GPT-2, BERT, Mamba, Megalodon

Big Data Tools: Hadoop (HDFS, MapReduce, YARN), Spark

Data Processing: Text processing, Audio/Video processing, Data analysis

Subjects: Linear algebra, Probability theory, Statistical analysis

Languages: English (B2), Russian (Native), Uzbek (Native)

Achievements

67th MIPT All-Russian Scientific Conference *April 2025*

- Research topic: Rapid Evaluation of the Effectiveness of Prospective Architectures of Large Language Models

XI International Conference "Engineering & Telecommunication — En&T-2024" *November 2024*

- Research topic: Rapid Evaluation of the Effectiveness of Prospective Architectures of Large Language Models

Participant of the International Hackathon "Digital Breakthrough" *April 2024*

- Development of an automated system for analyzing video tutorials in order to assess their quality

2nd Place at the International Hackathon "Digital Breakthrough" *November 2023*

- Processing citizens' appeals

Additional Courses

MIPT Deep Learning School *September – November 2023*

- Covered advanced topics in Deep Learning, including Neural Networks, Optimization, and Applications

NLP & Reinforcement Learning Course *February – June 2024*

- Focused on Natural Language Processing techniques and Reinforcement Learning algorithms

Algorithms and data structures VK *February – April 2025*

- Fundamentals of algorithms and data structures, data search and sorting, hashing and strings, trees and advanced algorithms

Systems for processing and analyzing large amounts of data *April - May 2025*

- The study of basic concepts in the field of big data and the fundamental principles of distributed data storage and processing

Projects

Reinforcement Learning for Breakout Game:
- Implemented Deep Q-Network (DQN) algorithm to train an agent to play Breakout

Steganography using Machine Learning:
- Investigated three methods of information hiding in audio and images, including a neural network-based approach
- Evaluated the robustness and efficiency of each method, focusing on data security and payload capacity