

# Aleksandr Iziurov

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## Education

### Moscow Institute of Physics and Technology (MIPT)

Bachelor of Science in Mathematics and Physics

Dolgoprudny, Russia

2019 - Present

- **Thesis:** Diffusion models development for the design of crystal structures
- **GPA:** 4.32/5.0, 6.94/10.0

### Deep Learning School

A course on neural networks by MIPT

2021 - 2022

- Graduated with 1st degree diploma

## Work Experience

### Terra Quantum AG

St. Gallen, Switzerland

ML Engineer. Development of a conversational AI chatbot

Aug 2022 - Present

- Customizing and deploying large language models.
- Designed and implemented configurable BERT-based models for response selection.
- Adapted SOTA text-to-image model to use in a conversation.
- Used a variety of the methods to train CatBoost on text features extracted by Transformer model.
- Exploring data used in ML pipelines.

## Projects

### Image Inpainting using partial convolutions

2022

Internship project

### Molecular energy prediction using Graph Neural Networks

2022

Competition project

### Face generation with Generative Adversarial Networks

2021

Course project

### 3D game engine on pure python

2019

University project

## Skills

**Programming languages** Python, C++

**Technologies and Tools** LaTeX, Git, Linux, Docker

**Libraries** PyTorch, PyTorch Lightning, Transformers, Diffusers, CatBoost, Hydra, NumPy, Pandas  
Scikit-learn, SciPy, Matplotlib, Plotly

**Basic knowledge** MPI, OpenMP, CUDA, SQL, JavaScript

**Languages** English (B2)

## Achievements

2022 **Awardee**, [RUCODE 5.0 AI competition](#)

Russia