

# Kirill Ryzhikov

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## EDUCATION

### Moscow State University

*Bachelor of Computational Mathematics and Cybernetics*

Moscow, Russia

*Aug. 2019 – July 2023*

## EXPERIENCE

### Machine Learning Research Junior

*Fintech Lab at MIPT associated with Tinkoff*

March 2020 – Present

*Moscow, RU*

- Developed the end-2-end system for talking heads generation from speech and photo
- Developed the telegram bot for testing TalkingHeads generation system
- Created pipeline for parsing youtube to create Russian Audio-Visual speech dataset

### Machine Learning / Deep Learning mentor

*Tinkoff.Generation*

Dec 2020 – Present

*Moscow, RU*

- Reading lectures at Deep Learning course
- Created seminar notebooks for Machine Learning/Deep Learning courses
- Held ML/DL online seminars

## PUBLICATIONS

### 63 All Russian science conference at MIPT

*Building facial expressions of a talking person from an audio recording of his speech* Diploma for best presentation in AI section

Moscow, RU, 2020

- Created architecture for facial key points sequence generation from speech
- Researched application of Harmonic Convolutions in Speech Embedding task
- Researched application of AutoVC like architectures for speech splitting

### Habr

*Developing a visual assistant*

Moscow, RU, 2020

*Link*

- Created demo of end2end system for voice assistant visualization

## PROJECTS

### PaletteAPI | Python, FastAPI, OpenCV | GitHub

Dec 2020 – Present

- Developed API for major colours palette extraction from image
- Implemented image quantization algorithms for real-time inference

### POArt | Python, OpenCV, Numpy | GitHub

Dec 2020 – Present

- Developed python app to apply Artistic effect to portrait image by mixing some famous piece-of-art and original image according to facial landmarks.

## HACKATHONES

### CROC-It-solution school | Android, Java, Firebase |

2018

- 1-st place at social apps sections

### Sber.Hack | Android, Java, Python, Numpy |

2018

- 2-nd place overall with project for detecting epilepsy attack Epi.Detect

### Acadoton | Android, Java, Python, Numpy, OpenCV, Arduino |

2018

- 4-nd place overall with project of smart lock for easy flat sharing or rent

### Hack.Moscow | Android, Java, Python, Numpy |

2018

- 2nd place in Healthcare track with Stroke.Detect app for strokes detection

## TECHNICAL SKILLS

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**Languages:** Python, C/C++

**DBMS:** MongoDB

**Frameworks:** PyTorch, Tensorflow, FastAPI, Flask, Telebot

**Developer Tools:** Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Vim, bash

**Libraries:** pandas, NumPy, Matplotlib, Pytorch-Lightning