Kirill Ryzhikov

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Education

Moscow State University — Moscow, Russia
Bachelor of Computational Mathematics and Cybernetics — *Aug. 2019 – July 2023*

Experience

Research and Development — March 2021 – Present
Tinkoff, Department of Experimental Products, AI Technology Center — *Moscow, RU*
- Developing virtual assistant visualization techniques
- Research 3D model and photo-realistic vizualization approaches

Machine Learning Research Junior — March 2020 – March2021
Fintech Lab at MIPT associated with Tinkoff — *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 — Dec 2020 – Present
Tinkoff.Generation — *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 — Moscow, RU, 2020
Building facial expressions of a talking person from an audio recording of his speechDiploma for best presentation in AI section
- 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 — Moscow, RU, 2020
Developing a visual assistant — *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 | *Andriod, Java, Python, Numpy*| — 2018
- 2-nd place overall with project for detecting epilepsy attack Epi.Detect

Acadoton | *Andriod, Java, Python, Numpy, OpenCV, Arduino*| — 2018
- 4-nd place overall with project of smart lock for easy flat sharing or rent

Hack.Moscow | *Andriod, Java, Python, Numpy*| — 2018
- 2nd place in Healthcare track with Stroke.Detect app for strokes detection

Technical Skills

Languages: Python, C(C99), C++17
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