

MARK POTANIN

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Global Talent UK visa holder

SUMMARY

I am an CV/ML engineer, researcher, lecturer and scientific advisor. I am a hackathon enthusiast and I have performed as an author of several large ML competitions. I have rich experience in public speaking at AI conferences and have published several scientific papers. I am Global Talent visa holder, which gives me the right to work in the UK.

WORK EXPERIENCE

MetaQuotes, ML Engineer

March, 2022 – October, 2022

- Implemented summarization model that generates unique page titles and applied to 30000 pages of MQ forum.
- Developed custom translator using recently open-sourced NLLB-200 model. It saves company 40.000\$ per year.
- Created a recommendation system that offers users new analysis tools.

NDA, Consultant

June, 2022 – October, 2022

- Developed AI-based venture investment strategy. Based on data from Crunchbase I have created a neural network that predicts successful startups. On historical data it has shown 13x capital growth.

SberAI, Lead Computer Vision Engineer

February, 2020 – March, 2022

- Launched the platform for historical manuscripts recognition "Digital Peter".
- Organised large scale ML competition AIJ2020 with prize fund \$50.000 and more than 100 participants.
- Co-organised "Fusion Brain Challenge", the first multimodal competition with prize fund \$100.000.
- Organized National Technological Olympiad in AI for high school students (more than 800 participants).
- Developed a handwritten text recognition system for school notebooks. Managed a team to label data and finally 350000 samples were collected.
- Developed classification model of CT scan images to predict COVID-19 with 89% recall score.
- Created MVP of food recognition model for auto cashier; Built truck monitoring system.

CDS, Data scientist

October, 2017 – February, 2020

- Developed a time series prediction system for the Treasury Department. It saves the bank \$1.5M each year.
- Engaged in developing model for collection service to forecast cash availability in ATMs.
- Created employee churn model for HR and based on this data organised ML competition.
- Created recommendation system for bank clients based on their transactions data.

EDUCATION

MIPT

2019-2022

Ph.D. student in Computer Science, Department of Banking and Information technologies

MIPT

2017-2019

Masters's Degree in Computer Science, Department of Banking and Information technologies

MIPT

2012-2017

Bachelor's Degree in Physics, Department of Physical and Quantum Electronics

TECHNICAL SKILLS

Machine Learning

NumPy, Pandas, SciPy, Seaborn, XGBoost, AutoML, h2o.ai, rapids, scikit-survival

Deep Learning

PyTorch, Keras, Tensorflow, OpenCV

Development

Docker, Git, Flask, Amazon S3, ONNX, SQL, PySpark, Streamlit

LECTURER

MIPT

2020-2022

- ML/DL courses
- Neural Architecture Search, [youtube playlist](#)
- Fundamental Machine Learning Theorems, [youtube playlist](#)

GeekBrains

2021

- HR analytics using Python

BHSAD

2021

- Neural Network Graphics

COMPETITIONS

- [Kaggle Expert](#), 1 silver and 1 bronze medals
- [Food Recognition Challenge](#), AICrowd, 2nd place
- [AR/VR hackathon](#), 1st place

PUBLICATIONS

- [Digital Peter: New Dataset, Competition and Handwriting Recognition Methods](#) 2021
- [Handwritten text generation and strikethrough characters augmentation](#) 2021
- [Many Heads but One Brain: an Overview of Fusion Brain Challenge on AI Journey 2021](#) 2021
- [Generation and selection of agnostic models](#) 2021
- [Deep learning neural network structure optimization](#) 2020
- [He didn't care about syntax](#) 2022
- [Recognise and transcribe: Peter the Great's autographs](#) 2020

CONFERENCES

- Artificial Intelligence Journey [video](#) 2021
- Congress of Young Scientists [video](#) 2021
- DataFest [video](#) 2021
- Tech & Design Day [event](#) 2021
- International Conference on Machine Vision ([ICMV'21](#)) 2021
- 6th International Workshop on Historical Document Imaging and Processing ([HIP'21](#)) 2021
- Maths & AI:MIPT-UGA young researchers workshop [video](#) 2021
- Cultural practices in the digital environment [event](#) 2021
- Intelligent Data Processing [video](#) 2020
- Lomonosov [2020](#), [2021](#)