MARIA FILIPPOVA

Junior ML Engineer

https://github.com/mfilippova

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EDUCATION

Master's degree, Data Science, Faculty of Computer Science, HSE — 2020 – 2022
GPA: 4.8/5

Bachelor's degree, Economics, HSE-NES Joint programme — 2016 – 2020
GPA: 4.3/5

Avito Analytics Academy — 2020 – 2021
Courses: Machine Learning, Python, SQL, Tableau, Statistics, Experiments, Metrics

SKILLS

Machine learning	Linear Models, Trees, Ensembles, FCN, CNN, RNN, Transformers
Python	NumPy, Pandas, Scikit-learn, Matplotlib, PyTorch, OpenCV, Huggingface
Tools	SQL, Git, Docker, Tableau

PROJECTS

Master's thesis Content based image retrieval for medical images — GitHub

- Implemented four image retrieval models: binary classification, hash-layer model, multilabel classification, detection.
- ROC-AUC of 84% for classification stage.
- Accuracy of the of 80.04% for image retrieval stage.

Traffic light detection Detect and classify traffic lights, determine relevance, process in real time — GitHub

- Trained FasterRCNN with ResNet-50 model.
- Derived heuristics that the traffic light is relevant to the driver.
- Visualised traffic lights on video, got the speed of prediction 7.5 fps.

Chest X-ray projections translation — GitHub

- Trained CycleGAN translating AP projection into PA.
- Validated quality via training image classification model

HACKATHONS

- Lenta & Microsoft hackathon "Hack.Promo", 3rd place: UpLift — GitHub — 2021
- Digital League hackathon: Image classification — GitHub — 2021
- Nornickel hackathon: Video processing — 2021
- Raifhack: Realty price prediction — 2021

EXPERIENCE

Teacher Russian School of Programming — Apr 2021 - July 2021

- Conducted weekly lectures and seminars in groups of 10 people.
- Prepared methodological materials on ML algorithms.