VLADIMIR LYASHENKO

Data Scientist

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EDUCATION

Higher School of Economics   2017 - 2021

Bachelor's degree, Business Informatics. GPA : 8.32/10

- **Bachelor's thesis:** Modeling and Analysis of the Process of Developing an Online Course for the Edtech Platform.
  Grade: 9 out of 10

Programming School 21   2019 - 2021

Software Engineering and Data Science Student

SKILLS

Python	Numpy, Pandas, OpenCV.
ML and DL Stack	Scikit-learn, Scipy, TensorFlow, PyTorch, TVM.
Linux	Command-line tools and shell scripting.
Git	Working with repositories and branches.

WORK EXPERIENCE

SkillFactory, ML and DL Specialist   May 2020 - Present

- Developed managerial skills, enhanced ML and DL knowledge by working as a teacher and applied it to our team's development of the brand new online course.

- Developed four webinars concerning Ensemble Learning, Random Forest algorithm, Clusterization, and Recommendation Systems. Held these webinars numerous times for over 500 students and had more than 90 NESSA for each of them.

- Participated in developing the masters Data Science online program for MISIS university.

cnvrg.io, Data Science, Contributing Writer   December 2020 - Present

- Wrote a series of articles featuring different Machine learning and Deep learning techniques.
  Link: https://cnvrg.io/author/vladimirl/.

Neptune.ai, Data Science, Data Scientist   September 2020 - April 2021

- Wrote a series of articles featuring different Machine learning and Deep learning techniques.
  Link: https://neptune.ai/blog/author/vladimirlyashenko.

NeuroDataLab LLC, Data Science, Junior Data Scientist   April 2020 - August 2020

- Analyzed the benefits of TVM package and converted multiple neural networks to TVM.

- Developed and deployed CNNs which detected human emotions and blinks frame by frame.

NeuroDataLab LLC, RnD, Junior Data Science Analyst   November 2019 - April 2020

- Worked with multiple API and datasets to perform analysis on Fraud detection, Heart, Breath and Blood Rate problems, checked various hypothesis.

- Developed and deployed a CNN that was used to detect human valence via video and worked on Fraud detection problem by applying classification algorithms on datasets.

PROJECTS

Valence CNN
February 2020 - March 2020

· Had a business unit inquiry to developed a NN which would compute humans' valence via video frame by frame
· Fine-tuned resnext-50 to solve this problem using PyTorch, enhanced algorithm performance by training it on various datasets.
· Implemented the Python cover for the solution and presented it to the RnD team.

Emotion Recognition CNN
June 2020 - July 2020

· Formed the pipeline, iteratively experimented with each part of pipeline. The final solution is a custom Mobile-FaceNet achitecture on Tensorflow with a custom loss function to take account of class disbalance.
· Trained the network, converted the pipeline to TVM and computed performance metrics.
· Implemented the Python cover for the solution and presented it to RnD team .

Blink Detector CNN
July 2020

· In short order implemented custom MobileNet achitecture on PyTorch and trained it to detect open or close eyes.
· Created and implemented the whole pipeline, developed postprocessing and visualization.
· Converted the whole pipeline to TVM and measured the performance metrics.