Pavel A. Plyusnin

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Examples of my projects can be found at https://plyus.pw/ru/category/projects-rus/

Data scientist with industry experience. Skilled in machine learning (including Computer Vision, NLP and Reinforcement Learning), probability theory, optimization methods, problem solving, robotics and programming.

Related experience:

- Sep. 2021 — present: senior researcher at Huawei
  - **Developing new SOTA** approaches for neural net quantization
- Sep. 2019 — present: assistant lecturer in the Department of Informatics, MIPT
  - Developed and conducted a **refresher training**
  - **Conducted one-year** «Object-oriented programming» **course** for third-year students
    - Conducted more than 50 full-time 3-hour classes
    - Revised and deepened the standard course program, developed my own materials
    - Made 15 laboratory works and checked the results
    - At the end of the year, the students conducted several studies **under my supervision**
  - **Developed and recorded** a six-lecture **video course** on machine learning (the first lesson was viewed by over a thousand people)
- Sep. 2019 — Sep. 2021: middle developer in the Deep Learning Group department of ABBYY
  - **Developed an approach** and **implemented** a prototype for the country detection of a company by the document
  - **Introduced** a country detector and language detector **into the product**
- July 2018 – Sep. 2018 - data scientist-trainee in the department of development and IT-validation of Sberbank
  - **Developed a methodology** for assessing data quality
  - Conducted data quality analysis
  - Conducted primary and repeated IT-validation of models
- 2018 – conducting machine learning research at the university and at kaggle.com
  - analyzed the given data
  - **visualized the data**
  - built and analyzed different models
  - performed feature selection
- 2015-2016 – successfully participated in ILab project (Intel & MIPT)
  - made a stack processor model
  - **wrote a compiler** for my own programming language and optimized it for running on the modeled processor

Participation in conferences and scientific seminars:

- **NeurIPS 2021**: planned report «Expanding the application of trained image recognition neural networks for new data and classes»
- **SMILES 2020**: **research poster** about «Iterative methods for the topic balancing problem»
- **Yandex NLP Week 2019**: participant
- P. Richtarik course «A Guided Walk Through the ZOO of Stochastic Gradient Descent Method»: participant

Education:

2019 – 2021: Moscow Institute of Physics and Technology, Methods and Technologies of Artificial Intelligence program – **master degree**

2015 – 2019: **BS with honors** in Moscow Institute of Physics and Technology, Department of Control and Applied Mathematics: mathematical modeling of complex processes (CC RAS)

Additional education:

- Passed some additional advanced courses K.V. Vorontsov, D.A. Kropotov, O.Yu. Bakhteev on Machine learning, Deep training, Methods of text analysis, Applied statistical analysis, etc.
- «Practical Deep Learning for Coders» course by the University of San Francisco
- «Management of Innovative Projects» course on Coursera

Professional skills:

- **Python** (PyTorch, Pandas, NumPy, SciPy, Matplotlib, seaborn, plotly, scikit-learn, XGBoost, BigARTM, gensim, nltk, gym, fast.ai), **C/C++**
- Work experience with:
  - MS SQL Server
  - Different IDEs: MS Visual Studio, JetBrains CLion, PyCharm, IntelliJ IDEA, Jupyter Notebook, etc.
  - LaTex
  - Different office packages such as Microsoft Office (Excel, Word, PowerPoint, etc.) and LibreOffice
  - OS Windows, Ubuntu, **ROS**
- English: Upper Intermediate (B2)