Artem Petrov

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Data Scientist and Python Developer
Strong product mindset with a focus on delivering business impact

SKILLS

Data science: Prompt Engineering, Machine Learning, Deep Learning with Pytorch, Computer Vision (segmentation with Unet), Data augmentation, Data visualization
Software development: Python (data science stack; PyTorch; FastAPI; SQLAlchemy, Plotly:dash), SQL, Git, Docker, Bash, Java/Kotlin for Android, C++
Other: advanced Linux user, LaTeX

EXPERIENCE

Data Scientist and Python Developer @ Tentakel   Jan 2023 – Present
Tools: Python, LLMs, FastAPI, SQLAlchemy Pytorch, Docker, Git

- Developed pipelines for automatic data analysis and document Q&A with LLMs and wrapped them in a REST API
- Deployed LLM-based products to production in the form of Telegram bots and Slack apps
- Developed an R&D backend in Python
- Benchmarked text embedding models for semantic search

Data Science Researcher @ IRA-Labs [part-time]   Sep 2021 – Jun 2022
Implementing shape-aware active learning approach for aorta segmentation on Computed Tomography (CT) images
Tools: Python, Pytorch, Git, Linux, LaTeX

- Trained shape-aware model, based on Signed Distance Map approach
- Used this model in comparison with other models for pathologies mining from unlabeled data

Data Science Intern @ IRA-Labs   Jul 2021 – Aug 2021
Solving domain shift for heart segmentation on CT images
Tools: Python, Pytorch, Git, Linux

- Proposed and implemented new data augmentation based on the analysis of the target dataset, which led to a 9% improvement in the target metric
- Presented results at a couple of local conferences

Data Science Intern @ Russian Academy of Sciences, Institute for Information Transmission Problems   Aug 2020
Applying attention to Simple Graph Convolution (SGC) for classification on graphs
Tools: Python, Pytorch, Git

Implemented attention in SGC, following the ideas from Graph Attention Networks and evaluated model's performance on baseline tasks

Python developer @ Freelance   Jun 2020 – Jul 2020
Tools: Python, SQL, Plotly, Linux
- Developed a web dashboard to represent internal data with Plotly|dash

System administrator [part-time]   Aug 2017 – Present
Tools: Bash, Git, Docker, Linux
- Set up, maintained, and migrated Linux-based mail servers

EDUCATION

Yandex School of Data Analysis, Moscow, Russia   Sep 2022 – Present
- Part-time masters-level private program in data science and software engineering

Moscow Institute of Physics and Technology, Moscow, Russia   2017 – 2022
- BS, Applied Mathematics and Physics: Computer Technologies and Intellectual Data Analysis
- GPA: 3.9/4, top-2%
- Top-1 university in Russia in CS according to THE university ranking

Physics and Mathematics Lyceum №239, Saint-Petersburg, Russia   2013 – 2017
- Every year from 2015 to 2020, the Lyceum was recognized as the best school in Russia

Independent coursework
- C++ Programming course on Stepik   Aug 2022 – Nov 2022
- Machine Learning and Data Analysis specialization on Coursera   Sep 2019 – Feb 2020

LANGUAGES	**English**: C1 \ Full Professional Proficiency
	Russian: Native language

LECTURES & TALKS

Lecturer @ Lalambda School Aug 2023
A biyearly summer school on advanced CS topics

- Taught a 16-hour course on the latest advancements in NLP with a deep dive into the Transformer Architecture

Seminarist @ Tbilisi PRC 2023
A paper reading group in Tbilisi with a focus on machine learning and CS topics

- Led a couple of dozen seminars on fundamental deep learning papers

AWARDS & SCHOLARSHIPS

- Phystech Foundation Scholarship Sep 2018 – Sep 2021
  Awarded to students with the highest GPA (top 10%) until their last year
- Advanced Academic Scholarship Jul 2018 – Feb 2021
  Awarded to students with A marks only in the preceding term
- Gold medal awardee of the Asian Physics Olympiad 2017
- Gold and Silver medal awardee of the International Zhautykov Olympiad in Physics 2016, 2017
- Winner of the Russian National Physics Olympiad 2015, 2016, 2017

PET PROJECTS

ns-scheduler
A tool to schedule the work time of applications deployed to the Kubernetes cluster for development/testing purposes to not waste resources when no one is using them

rainbow-track
GNOME shell extension for smooth time tracking on Linux with Toggl Track