

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, LangChain, LLMs, 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 <ul style="list-style-type: none">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 <ul style="list-style-type: none">Led a couple of dozen seminars on fundamental deep learning papers
AWARDS & SCHOLARSHIPS	<ul style="list-style-type: none">Phystech Foundation Scholarship Sep 2018 – Sep 2021 Awarded to students with the highest GPA (top 10%) until their last yearAdvanced Academic Scholarship Jul 2018 – Feb 2021 Awarded to students with A marks only in the preceding termGold medal awardee of the Asian Physics Olympiad 2017Gold and Silver medal awardee of the International Zhautykov Olympiad in Physics 2016, 2017Winner 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