DATA SCIENTIST | ML ENGINEER

Margarita Sharkova

CONTACT

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KEY SKILLS

Deep Learning

Machine Learning

Reinforcement Learning

Biomedical Imaging and Analytics

Models of Sequential Data

Algorithms and data structures

TECHNICAL SKILLS

Programming
Python, Bash, SQL

Big Data
Hive, Spark, HDFS, Kafka, Oracle

Visualisation
matplotlib, plotly, bokeh, MLflow, TensorBoard ...

Data handling/analysis
numpy, scipy, pandas, statsmodels ...

DL / ML frameworks
PyTorch, Keras / LightGBM, XGBoost, CatBoost, Scikit-learn

Instruments
git, gitlab, Confulence, Jira, LaTeX

ADDITIONAL INFORMATION

- 🏆 Skolkovo scholarship for excellent performance (top 5% out of 250 students)
- 🏆 Best Skolkovo HackLab Speaker 2020
- 🏆 Price places on hackathons and case championships from Tinkoff, Sber, AstraZeneca, Gazpromneft

⚙ WORK HISTORY

Severstal Digital

Middle Data Scientist   August 2021 - today

- Developed new ML-based recommendation system, that reduces pauses on steel rolling mill by automatically modifying technology of steel hot-rolling
- Applying Causal Inference for treatment effect prediction (temperature changing)
- Data capturing and analytics (EDA), customer negotiation, baseline solution establishment, development and deployment to production
- Time series data analysis and pattern recognition
- Uncertainty estimation for model confidence intervals evaluation
- Solution prototyping, deploy and maintaining developed model in production

Digital Petroleum

Junior Data Scientist   February 2020 - August 2021

- Designed algorithms for automatically detection of drilling complications that lead to accidents and deployed into software
- Developed robust metrics to evaluate the success rate
- Pattern capturing, anomaly detection in time-series data

Schlumberger Moscow Research Center

Research scientist   February 2021 - July 2021

- Part-time for 2 projects
- Development of methods to analyze noise logging and flow measurement data in purpose to recognize formation flow area
- Noise reduction, signal filtering and reconstruction

GEONAFT

Machine learning intern   August 2020

- Working on project "Gamma-ray prediction based on mechanical features measured while drilling"

Technology Development Center of the TATNEFT

Technician   June 2019 - July 2019

- Managing projects «Guided drilling», «Smart tracers», «LWD packages for geomechanical modelling»
- Well stock selection for testing, patent search for equivalent technologies
- preparing the calendar plan of the research and development / projects presentation

Gazpromneft Science Technology Centre

Intern at the Department of Oil Production Technology   August 2018

- Working on project: «Gas Lift Optimization in Eastern area of the Orenburg gas condensate field»

Gazprom Transgaz Yugorsk

Processing units repair technician   August 2018

- Equipment maintenance and repair
- Working on thesis project «Development of the replacement technology of the running part of the supercharger on Novo-Ivdelskya Compression Station»

🎓 EDUCATION

Skolkovo Institute of Science and Technology

Advanced Simulation and Data Science in Petroleum Industry,

Master's degree in Petroleum Engineering, GPA: 4.8 / 5   2019 - 2021

Saint - Petersburg Mining University

Operation/maintenance of transportation and storage facilities for oil, gas and oil products,

Bachelor's degree in Petroleum Engineering, GPA: 4.7 / 5   2015 - 2019

🎓 COMPLETED PROJECTS

- "Generating Natural Language Adversarial Attacks"
- "k-space Deep Learning for Super-Resolution"
- "Mineralogical Classification of Scanning Electron Microscope and QEMSCAN Images"
- "Measuring PyTorch performance"
- "Mining interpretable patterns of accidents precursor from MWD data - diploma project"
- "GR well logging prediction based on drilling data for Geonaft"
- "Uncertainty Estimation on Graphs" at Sirius University of Science and Technology
- "Data-driven optimization of the hot-rolled steel production technologies"