

Mischa Lisovyi

Data scientist, Kaggle Expert, Particle physicist

Data scientist with with Ph.D. in physics and 10+ years of SW development, analysis and visualisation of big data in high-energy physics and in retail. Strong analytical, statistical, programming and collaboration skills.



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🐙 github.com/mlisovyi

WORK EXPERIENCE

(Senior) Data Scientist

MIGROS

12/2019 - Present

Zürich, CH

Achievements/Tasks

- Definition of tasks for the team in the agile work environment
- Review of the team members' code
- An ETL pipeline with multi-process parallelisation using pandas + joblib
- Store revenue modelling using LightGBM and Lasso regressions in python
- User-facing dashboard using dash running in k8s using a docker image
- Testing using pytest with 60% coverage over 25k+ LoC + code linting and type checks
- Implementation of CI/CD pipelines in gitlab
- A/B testing of the project success

Customer Care Data Scientist

KNIME

01/2019 - 11/2019

Konstanz, DE

Achievements/Tasks

- Implementation of model interpretation algorithms: K-LIME
- Customer support for KNIME Server and POC preparation crafted to user needs

Kaggle Competitor

kaggle.com

05/2018 - 01/2019

Kaggle Competition and Kernels Expert

- 9th place out of 7000+ teams (top 1%, gold medal) HomeCredit [↗](#)
- 38th place (top 2%, silver medal) Google Analytics [↗](#)

Physics Researcher

DESY + Universität Heidelberg

08/2008 - 06/2018

Hamburg + Heidelberg, DE

Achievements

- Assessed classifiers of heavy particles exploiting designed features: DNN and GBT have shown twice better performance than historic methods.
- Mined through events on huge datasets of 100+ PB using high-throughput computing with data visualisation on a local machine.
- Advanced parallelisation of high-precision Monte Carlo predictions taking more than 100.000 CPU hours. Boosted the speed of production by 60%.
- Developed a software toolkit for the Data Quality Monitoring for a heterogeneous HW system. Led a team of developers.
- More than 10 publications in scientific journals.

EDUCATION

PhD in particle physics

Universität Hamburg

06/2008 - 10/2011

SKILLS

Programming: python (4+ y), C++ (9+ y)



ML toolkit: numpy, pandas, scikit-learn, matplotlib, seaborn, xgboost, lightgbm, KNIME, mlflow, dash



SW development in python: linux, IDE (VS Code), debugging, testing/linting/type checks, CI/CD, project templating



Statistics and math



Multi-project and multi-culture environment



Project management



CERTIFICATES

Deep Learning, a 5-course specialization by deeplearning.ai (Coursera). (02/2018)

Applied ML in Python by Michigan U. (Coursera). (01/2018)

LANGUAGES

English (fluent)



German (B2)



Russian, Ukrainian (native)

