Dmitrii **Maksimov**

MACHINE LEARNING ENGINEER · DATA SCIENTIST

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Summary

3+ years of diverse data science experience with specialties in market research, data visualization, market optimization and model lifecycle.
2+ years of diverse data/software engineering experience with specialties in pipelines integration, architecure design using AWS, database maintenance and deployment.
1+ years of diverse machine learning engineering with a focus on model management and deployment.

In addition, while studying at the university and various courses(e.g. MADE from VK), I learned many skills like: **NLP, LLM, Reinforcement Learning, Deep Learning, Computer Vision, Pytorch, Transformers, Huggingface, PyTorch Lightning, Optimization, Spark, Hadoop, Scala, Recommender Systems, kubernetes, algorithms, A/B testing and data structures**.

Love to share knowledge with different communities. Interested in devising a better problem-solving method for various tasks and learning new technologies and tools.

Skills

MLOps	AWS, Docker, GitHub, Retool, Linux, Bash, REST API, Google Cloud, CI/CD, MLflow, AimStack, Hydra, Vertex AI
ML/Data Science	Statistical Data Analysis, Data Visualization, Probability Theory, XGBoost, PyTorch, scikit-learn, ETL, Vertica, Search Engine Optimization, PostgreSQL, Market Research, Parsing, Streamlit
Programming	Python, SQL, SAS base
Languages	Russian, English, German

Work Experience

GFK   *Nuremberg, Germany*
DATA SCIENTIST/MLOPS & WORK STUDY   *Apr. 2022 - Oct. 2023*

- Creating a tool to compare segmentations and their impact on the market
- Developing a method to detect AoI(areas of interests)
- Investigating cannibalisation effects
- Evaluating competitors algorithm
- Maintained the CI/CD pipeline
- Migrated a Deep Learning model to Vertex AI on Google Cloud
- Stack: **Python, Google Cloud Platform, Streamlit, PostgreSQL, Vertex AI, CI/CD**

T.C.R. International   *Cyprus*
DATA/SOFTWARE ENGINEER   *Sep. 2020 - Apr 2022*

- Developed and maintained processes for financial systems, with 90% of the processes developed with my active participation
- Optimized airflow dags and configuration which allowed reducing the cost of the astronomer by 70%
- Investigated strategies and solutions to reduce AWS infrastructure costs, optimizing resource allocation and usage
- Maintained the infrastructure, specifically working with AWS S3 and RDS
- Developed several AWS Lambda functions for automation and streamlined processing
- Created a Deep Learning trading algorithm to optimize trading strategies and predict market movements
- Implemented processes for maintaining an extensive internal symbology database consisting of over 30,000 symbols
- Stack: **Python, AWS (S3, RDS, Lambda), Airflow, PostgreSQL, Retool, REST API, Docker, CI/CD, PyTorch, XGBoost, AimStack, Hydra, Blankly(backtesting)**

SDVOR   *Moscow, Russia*
DATA SCIENTIST   *Apr. 2020 - Jan. 2022*

- Creating an attribution model in advertising for SDVOR site using Markov chain as a result advertising costs decreased by 5%
- Programming ETL workflows for competitors site's parsing
- Building service to optimize price for sales using SAS, python, SQL, which increased the profit on some products by 10%
- Accomplishing computer vision model to compare planorgam and realogram via photo in a shop
- Creating telegram-bot as a server for different tasks
- Stack: **Python, SAS, Vertica, PostgreSQL, Telegram API**

Education

FAU(Friedrich-Alexander-Universität Erlangen-Nürnberg) *Erlangen-Nürnberg, Germany*

M.S. IN DATA SCIENCE *Oct. 2021 - Present*

- Developed Personalized Anomaly Detection Model based on continuous-time LSTM and Bayesian Decision Theory.
  Stack: **Pytorch, AimStack/MLFlow, Hydra**

BMSTU(Bauman Moscow State Technical University) *Moscow, Russia*

M.S. IN COMPUTER SCIENCE AND ENGINEERING *Sep. 2020 - Jun. 2021*

- Finished 1 semester

BMSTU(Bauman Moscow State Technical University) *Moscow, Russia*

B.S. IN COMPUTER SCIENCE AND ENGINEERING *Sep. 2016 - Jun. 2020*

- GPA - 4.42, max - 5.0

Extracurricular Activity

MADE at VK *Moscow, Russia*

STUDENT *Sep. 2022 - Jun. 2023*

- Gained expertise in different areas of ML (e.g. NLP, DL, Computer Vision, MLOps, basic ML, Python, ML in BigData, etc)
- Core member in a project to create a recommendation system for articles' authors
- Core member in a project to create a User Request-Based Fake Web Document Text Generation system

ML at Mail.ru Group *Moscow, Russia*

STUDENT *Sep. 2020 - Jan. 2021*

- Gained knowledge in basic ML

Certificates

Aug. 2023 **AWS Certified Cloud Practitioner**, AWS
Jun. 2023 **MADE Big Data Academy. Machine Learning Engineer**, VK *405-67419*
Oct. 2022 **Completion of the Deep Learning Exercise**, FAU
Mar. 2020 **Labeled data learning**, Coursera
Mar. 2020 **Math and Python for data analysis**, Coursera
2019 **C/C++**, Mail.ru Group

Honors & Awards

INTERNATIONAL AWARDS

Jan. 2023 **8th Place**, Tensor Tournament *Erlangen, Germany*
Oct. 2022 **2nd Place**, Classification of Solar Cell Defects *Erlangen, Germany*

DOMESTIC AWARDS

2021 **1st Place**, SDVOR Hacking Competition *Tyumen, Russia*