

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, causal modelling, market optimization and model lifecycle.

3+ years of diverse data/software engineering experience with specialties in pipelines integration, architecture design using AWS, database maintenance and deployment.

2+ years of diverse machine learning engineering with a focus on model management, deployment and researching.

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, SageMaker

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

Jan. 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
- Developed a backtesting framework to test trading strategies
- Implemented processes for maintaining an extensive internal symbology database consisting of over 30,000 symbols
- Researching data sources to develop a trading strategy and maintaining a symbology database
- Stack: **Python, AWS (S3, RDS, Lambda, SageMaker), 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 planogram and realogram via photo in a shop
- Creating telegram-bot as a server for different tasks
- Developing a model to identify problems related to the delivery of goods
- Stack: **Python, SAS, Vertica, PostgreSQL, Telegram API**

Education

FAU(Friedrich-Alexander-Universität Erlangen-Nürnberg)

Erlangen-Nürnberg, Germany

M.S. IN DATA SCIENCE

Oct. 2021 - May 2024

- Developed Personalized Anomaly Detection Model based on continuous-time LSTM and Bayesian Decision Theory.
Stack: **Pytorch, AimStack/MLFlow, Hydra**
- Developing a Query-Answering System for Technical Documentation Using Domain-Optimized Language Models.
Stack: **Pytorch, Transformers, Hydra, SageMaker, AWS, Reinforcement Learning, NLP, RAG, AimStack/MLFlow**

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

Dec. 2023 **GPT Week**, Yandex, School of data analysis

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