GRIGORIY OVCHINNIKOV

ML Engineer

Georgia, Tbilisi

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ML Engineer with more than 5 years of data analysis and machine learning experience. Strong knowledge of classical, advanced ML algorithms, applying deep learning and statistics especially in AdTech domain. Proficiency in working with ML frameworks and databases for business problem-solving.

TECHNICAL SKILLS

Languages: Python, GoLang, SQL
Machine learning: Scikit-learn, XGBoost, LightGBM, CatBoost, PyTorch, SciPy, NumPy, Pandas, Matplotlib, Plotly, Seaborn, pulearn, shap, MLflow
Databases & Message broker systems & Workflow orchestration: ClickHouse, PostgreSQL, MongoDB, Cassandra, HBase, Apache Kafka, Redis, Airflow
Version Control & Deploy & Infrastructure: Git, GitLab CI/CD, Docker(compose, swarm)
GCP: Cloud Functions, Cloud Run, Cloud Storage, PubSub, VertexAI
Big data: Hadoop, Hive, Pyspark
Natural Language Processing: gensim, nltk, transformers, pytorch-lightning
Web scraping: Scrapy, Puppeteer, lxml
Project management: Jira, Confluence, Trello
Other: EDA, Data cleaning, Visualization, Modelling, Propensity Modelling, Model interpretation, Natural Language Processing, Statistics, Experimental design, Hypothesis testing, MVP

EXPERIENCE

Go Net | DSP
Senior ML Engineer

February 2023 – Present
Limmasol, Cyprus

- Implemented **core machine learning based mechaincs for DSP**: max CPC and target CTR bidding strategies based on control theory methods. Designed and implemented a **high-throughput scalable ML model inference service using Go**.
- Designed system for contextual targeting feature based on natural language processing and large language modelling(with transformers and PyTorch Lightning).
- Led technical interviews for Machine Learning Engineer roles, enhancing team capabilities.
- MLOps operations: model monitoring, quality assessment, conducting A/B testing. Providing data analysis of collected data to guide decision-making processes.
- **Pipeline stack**: Python, GoLang, ClickHouse, Kafka, Aerospike, transformers, PyTorch, Redis, Catboost, vowpal-wabbit, gRPC, Prometheus

Platforma
Data Scientist | ML Engineer

November 2020 – December 2022
Moscow, Russia

- Implemented state-of-the-art methods for a look-alike modeling task with positive unlabeled (PU) learning using PySpark and PyTorch with a **significant uplift in offline and online metrics**.
- Built an efficient, accurate and scalable ML solution for labeling clickstream data which **increased accuracy and lower inference time on telecom data in more than hundreds of million devices** using PySpark and Hadoop.
- Suggested and implemented an NLP-inspired(item2vec) approach for website representation learning based on clickstream data, giving several advantages over the previous approach.
- **Pipeline stack**: Python, Hadoop, Pyspark, Airflow, PyTorch.

S7 TechLab
Junior Data Scientist

October 2018 – October 2020
Moscow, Russia

- Conducted research and data analysis to address predictive maintenance task. Provided estimates of remaining useful life through supervised machine learning in the big data department.
- Developed ML models for improving accuracy of decision support system using cluster analysis and supervised multiclass classification.
- Scraping external data with Python, Building MVP with R Shiny, Python Flask-restx.
- **Pipeline stack**: Python, Airflow, PySpark, S3, PostgreSQL, MongoDB, Cassandra, Kafka.

EDUCATION

National Research Nuclear University (MEPhI)   **September 2018 – June 2020**

Master's degree in Applied Mathematics and Informatics(incomplete)   *Moscow, Russia*

Volgograd State Technical University(VSTU)   **September 2014 – June 2018**

Bachelor's degree in Informatics and Computer Engineering   *Volgograd, Russia*

CERTIFICATIONS

- Google Cloud, Big Data and Machine Learning Fundamentals [November 2022]
- TensorFlow on Google Cloud [November 2022]
- Drawing conclusions from data, MIPT, Yandex [October 2020]

Languages

- English - B2(Upper intermediate)
- Russian – Native