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ML Engineer (Computer Vision & NLP)

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Work Experience

Gradient

Computer Vision Engineer

San Francisco, USA

August 2022 - Present

- Develop image-to-image filters for user photos, image enhancement and reshaping utilities.
- Deploy new models to production.
- Research new methods and conduct various experiments.
- Generate, maintain image datasets.
- Work with diffusion models (Stable Diffusion, LDM), GANs, ViTs, CNNs, BLIP, CLIP.
- Distilled Stable Diffusion model and accelerated it's generation up to 4x-times.

ArtLabs

Machine Learning Engineer

Minsk, Belarus

May 2022 - August 2022

- Developed time-series demand forecasting models.
- Worked with unstructured data of different data using Pandas.
- Developed production pipelines to convert raw data into feature vector and to forecast the demand.

iTechArt

Machine Learning Engineer

Minsk, Belarus

February 2022 - August 2022

- Developed gRPC endpoint client/server image classification service with FastAPI framework. Used Uvicorn and Prometheus with Docker and Supervisor. The endpoint was designed to asynchronously process client requests for classification and return the responses to client.

Yandex

Software Engineer Intern

Minsk, Belarus

May 2021 - November 2021

- Developed the tool for making analytics for the best ML conferences: AACL, KDD, EMNLP, SIGIR, etc. Utilized NLP- and rule-based string standardization and normalization methods for making correct analytics.
- Used rule- and ML-based methods to parse scientific articles abstracts.
- Built analytics for Yandex.Contest.
- Used KNN model to find similar records in Yandex.Contest load analytics.

Education

Yandex school of Data Analysis

Master's degree level program, Machine Learning developer academic program

Moscow, Russia

September 2020 - June 2022

Belarusian State University

Bachelor's degree in Computer Science and Applied Mathematics

Minsk, Belarus

September 2018 - July 2022

Skills

Programming languages: C++, Python, SQL.

Frameworks: PyTorch, torch.distributed, Tensorflow, FastAPI, Flask, scikit-learn, OpenCV, numpy, pandas, catboost, xgboost, coreml, bitsandbytes.

Engineering skills: Computer Vision, NLP, Classical ML, Time-Series Forecasting, Distributed learning, Data-Parallel training, Model-Parallel training, Model deployment, Model distillation, C++ multithreading.

Tools: docker, docker-compose, git, bash, Kubernetes, Airflow, Prometheus, ES, datadog, gRPC.

Math: Optimization, Linear algebra, Probability theory, Statistics, Calculus.

Languages: Russian (native), English (B2)

Activities

towardsdatascience personal blog: <https://bestasoff.medium.com/>.

Web

Yandex School of Data Analysis ML course tutor.

Minsk, Belarus

Prepared educational tasks for SIRIUS school center.

Sochi, Russia

Prepared tasks for learning main aspects of the importance of EDA, data preprocessing and normalization.

January 2022