Stanislau Beliasau

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Middle Machine Learning Engineer with about 2 years of hands-on experience in machine learning projects (mainly in Computer Vision and NLP). Have experience working with Large Language models and their training and optimization. Have a strong background in CNNs, ViTs, GANs and Diffusion models (like Stable diffusion, its applications and down-stream tasks).

Eligible to work in United States - Green Card holder.

Skills

Programming languages: Python, C++.
Frameworks: PyTorch, torch.distributed, torchlightning, huggingface, FastAPI, Flask, scikit-learn, OpenCV, numpy, pandas, catboost, xgboost, coreml, bitsandbytes.
Machine Learning: Computer Vision, NLP, classical ML, distributed training, data-parallel training, model-parallel training, model deployment, model distillation, model compression, memory footprint reduction.
Tools: docker, docker-compose, git, Kubernetes, Airflow, Prometheus, gRPC.

Work Experience

Gradient & Persona: AI Photo & Video mobile editors, *San Francisco, CA, Remote*
Middle Computer Vision Engineer *Aug. 2022 – Present.*

- Make a huge research on image generation, especially with Stable Diffusion model. Played a key role in developing brand-new method of encoding into its latent space.
- Conduct various experiments with different Stable Diffusion down-stream tasks like custom fine-tuning, introduction of new modules, curating task-specific datasets, papers implementation. Accelerated image generation by 30%.
- Generate and curate custom datasets. Use CLIP, BLIP, StyleGAN, pix2pix models for processings. Resulted in obtaining datasets which helped to train new models.
- Train brand-new re-aging img2img filters both server and realtime.
- Train new versions of image warping body-tune models both for images and videos and lightweight body segmentation models. Resulted in better postprocessing on inference.
- Train dozens of new beauty filters, develop new loss functions for training. Resulted in better quality of model outputs.
- Deploy models both on IOS and server using torch.jit and coreml.
- Participate in regular learning meetups, sharing the insights from recent ML papers.

ArtLabs, *Minsk, Belarus, Remote*
Machine Learning Engineer *May. 2022 – Aug. 2022*

- Created and curated custom datasets from unstructured client's data using Pandas and SQL.
- Trained numerous time-series models for demand forecasting resulting in reducng forecast MAPE on 20%.
- Developed API for the model using FastAPI.
- Constructed production pipelines with AirFlow to convert raw data into feature vector, feed it into the model and forecast the product demand.

Yandex School of Data analysis, *Minsk, Belarus*
ML course tutor assistant *Feb. 2021 – May. 2021*

- Gave several lectures on machine learning: including introduction to NLP and CV.
- Conducted seminars and checked homeworks.

iTechArt, *Minsk, Belarus*
Machine Learning Engineer *Feb. 2022 – Aug. 2022*

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

Yandex, *Minsk, Belarus*
Software Engineer Intern *May. 2021 – Nov. 2021*

- Developed rule-based and NLP-based solutions for affiliations parsing.
- Developed data annotation service with Flask framework. Wrapped it into Docker and deployed to the server.

Education

Yandex School of Data analysis, *Moscow, Russia*
Master's degree level Machine Learning developer academic program *Sep. 2020 – June. 2022*

Belarusian State University, *Minsk, Belarus*
Bachelor of Computer Science *Sep. 2018 – Aug. 2022*