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Eligible to work in the United States - Green Card holder. Middle Machine Learning Engineer with about 2 years of hands-on experience in machine learning projects (mainly in Computer Vision and NLP). Have experience with training and optimization of Large Language models. Have a strong background in CNNs, ViTs, GANs, and Diffusion models (like Stable diffusion, its applications, and downstream tasks).

Skills

Programming languages: Python, C++.

Frameworks: PyTorch, torch.distributed, torchlighnting, huggingface, accelerate, FastAPI, Flask, deepspeed, scikit-learn, OpenCV, numpy, pandas, catboost, xgboost, coreml, bitsandbytes.

Machine Learning: Computer Vision, NLP, classical ML, distributed training, data-parallel training, model-parallel training, tensor parallelism, model pruning, model deployment, model distillation, model compression, memory footprint reduction.

Tools: docker, docker-compose, git, Kubernetes, Airflow, Prometheus, gRPC, TensorRT, ONNX, Hadoop, Spark.

Work Experience

 **Yandex School of Data analysis**, Minsk, Belarus

ML course tutor assistant

Feb. 2022 – Present.

- Give lectures on machine learning including NLP and CV.
- Conduct seminars and check homework.
- Implement LLM (GPT-2XL, OPT-6.7B) distributed training and inference pipelines: model-parallel, data-parallel, pipeline parallelism, memory offloading.

 **Gradient & Persona: AI Photo & Video mobile editors**, New York, Remote

Middle Computer Vision Engineer

Aug. 2022 – May. 2023

- Make massive research on image generation, especially with Stable Diffusion model. Played a crucial role in developing the brand-new encoding method into its latent space.
- Run experiments with different Stable Diffusion downstream tasks like custom fine-tuning, introducing new modules, curating task-specific datasets, and implementing papers—accelerated image generation by 30%.
- Generate and curate custom datasets. Use CLIP, BLIP, StyleGAN, pix2pix models for processings. Resulted in obtaining datasets that helped to train new models.
- Train brand-new re-aging img2img filters both server and real-time.
- 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.
- Making GANs work in real-time on mobile devices with HD quality, 60fps and taking less than 2 MB.
- Deploy models both on IOS and server using torch.jit and coreml.

 **ArtLabs**, Minsk, Belarus, Remote

Machine Learning Engineer

May. 2022 – Aug. 2022

- Created and curated custom datasets from unstructured client data using Pandas and SQL.
- Trained numerous time-series models for demand forecasting, reducing forecast MAPE by 20%.
- Constructed production pipelines with AirFlow to convert raw data into a feature vector, feed it into the model, and forecast the product demand.

 **iTechArt**, Minsk, Belarus

Machine Learning Engineer

Nov. 2021 – Aug. 2022

- Designed and implemented an image classification service using the gRPC endpoint client/server architecture and the FastAPI framework.
- Utilized Uvicorn and Prometheus in conjunction with Docker and Supervisor to create a robust and scalable solution.
- Developed and implemented custom model architectures using C++, resulting in up to a 45% reduction in model latency.
- Generated synthetic datasets to supplement real data, leading to an increase in model accuracy of up to 10%.
- Successfully distilled the CNN model into a model that was 3 times smaller while maintaining nearly identical evaluation metrics.

 **Yandex**, Minsk, Belarus

Software Engineer Intern

May. 2021 – Nov. 2021

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

Education

 **Yandex School of Data analysis**, Moscow, Russia

Master's degree level Machine Learning developer academic program

Sep. 2020 – June. 2022

- Relevant courses: Python, C++, Golang, Algorithms and Data Structures, Machine Learning, Computer Vision, NLP, Probability and Statistics, Reinforcement Learning, Efficient Deep Learning systems, Recommendation systems.



- Awarded a full scholarship and stipend by the government per entrance exam results.
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Activities

Educational-Scientific Conference of Students on Recent Methods of ML and Data Analysis: Minsk, Belarus

"BERT-based biomedical Named Entity Recognition and Named Entity Normalization".

Annual Belarusian State University scientific conference: Minsk, Belarus

"BERT-based biomedical Named Entity Recognition and Named Entity Normalization".