DANIIL SUHOI

ML/DL - NLP Engineer and Researcher

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🔗 github.com/isayoften

SKILLS

Math

Excellent knowledge of calculus, linear algebra, probability theory, and mathematical statistics. Can easily derive backpropagation of the computational graph of neural network.

Programming

Advanced Python skills, good knowledge of algorithms and data structures. Writing in Python since 8th grade.

English

Free reading of scientific papers and listening to lectures in English from foreign universities.

Classical ML

Good knowledge of classical machine learning, key aspects of ML system design.

NLP

From word embeddings and RNNs to transformers, LLM, RLHF/DPO, RAG, Agents. This is my main area of interest. I keep up with new discoveries and constantly deepen and expand my knowledge.

Common techniques

Transfer learning, distributed computing (DDP, FSDP), optimization (quantization, mixed precision, LoRa, gradient checkpointing, unsloth, ONNX, etc.), building custom architectures and training loops.

Technical stack

Python, Pytorch, Transformers, Accelerate, PEFT, TRL, LangChain, Datasets, Sklearn, Sentence Transformers. • Numpy, Pandas, Matplotlib, Seaborn • SQL, FAISS • Git, Docker, Linux

WORK EXPERIENCE

Recommendation letter

Recommendation letter from a Doctor of Physics and Mathematics and Director of the Physics and Mathematics Faculty.

AI Teacher

Successfully prepared participants for the "Сириус.ИИ" program at the "Академия Первых" institution.

EDUCATION AND COURSES:

Mathematics and Computer Science: 4th year, Applied Mathematics and Informatics

GPA

4.7 / 5

Perm State National Research University

- Professional development program on AI and Pytorch from the university.
- ODS course on Classical ML
- Deep Learning School from MIPT
- YSDA NLP course
- Stanford CS224N NLP course
- Hugging Face NLP course.
- Algorithms and ML training from Yandex.
- YSDA ML Book
- "Mathematics for Machine Learning" book

PROJECTS AND ARTICLES:

LLMs From Scratch

- GPT from scratch - built architecture and pre-trained a model from scratch.

Article and project on LLM optimization

- A large-scale review of SOTA methods for training LLMs, analyzing a large number of research articles
- Fine-tunning 40B model with FSDP+QLoRa

Project and article on predicting complications in peritonitis

- Several diplomas with first places from international conferences and patent
- Spoke at a scientific conference.

Article and project on monocular depth estimation

- Valued by several top developers and researchers
- Hugging Face plans to include the article in their CV course

ABOUT ME

- Words cannot express the genuine interest and passion I have for this field. Every day, I spend all my free time studying and practicing to achieve perfection, because I know that in the future, I will have to do something very important in the field of NLP.