

SERGEEV DANIIL

NLP-engineer
Moscow

ABOUT ME

ML-engineer with more than 1 year of experience. I participate in hackathons on AI, trying to improve myself. I am interested in NLP.

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EDUCATION

NUST MISIS, Institute of Computer Science, Bachelor in Applied Math	Moscow, 2023-2027
Deep Learning School from MIPT - Course about DL, CV, NLP	2023-2024
Yandex School of Data Analysis - Course about NLP	2024
Tinkoff Education ML/DL	2021 - 2022

SKILLS

Computer Languages	Python, C++
Fields	NLP, Computer Vision, Classical ML
Hard skills	Pandas, NumPy, PyTorch, Lightning, Scikit-learn, OpenCV, Transformers, Gensim, NLTK
Tools	Git, Windows

EXPERIENCE

Tatneft Techstorm Hackathon: A bot assistant for finding information, NLP August, 2024
3 place, ML-engineer

In the hackathon, we were required to create an assistant bot based on artificial intelligence for Tatneft. In the future, this bot should be connected to an internal knowledge base, but at the same time be able to collect data from the Internet. We tried a lot of RAG techniques but in final solution used RAG Fusion and serper as Google API. We have also collected own data as a base of knowledge. Also we used Vosk as a voice-to-text model. As a result, the model that was working in Telegram showed pretty good results.

IT PURPLE HACK: Forecasting the outflow of a salary client, Classical ML March, 2024
3 place, DS, ML-engineer

We selected the important features, since there were initially 1070 of them, and then we started feature engineering. The key to the solution was that we took the embeddings from the autoencoder, split them into clusters and added this as a feature. Finally, blending of catboost classifiers with stratification by target.

Talent-Match: comparison of resumes and vacancies, NLP February, 2024
2 place, ML-engineer

We parsed HeadHunter and collected a large dataset to take keywords for improvements. In the solution, we used distil-roBerta to receive embeddings and a Siamese neural network with 2 branches. We made a good model, a core that gave Recall=0.8.

AI Energy Hackathon: Photo detection system for power lines defects, CV
3 place, ML-engineer

December, 2023

Developed a solution based on the YOLOv8, which turned out to be the best. We trained and tried several detection models, but choose SAHI technology for inference. We were given very little data, but thanks to Roboflow we marked up and collected a big database of images in the size of 1800 pieces. As a result, the model showed pretty good results, detecting breakdowns at a great distance.