

Moscow. Russia / Worldwide

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Work Experience __

Sber Moscow, Russia

SENIOR NLP DATA SCIENTIST

Aug. 2021 - Now

- Deputy Team Lead for 5 data scientists: currently processing team management, stakeholder communication, performance evaluation, candidate interviews
- Led model development efforts to build auto payment system based on contract recognition and payment documents evaluation. System
 processes > 5000 documents monthly
- Built ASR pipelines for CIS languages using Whisper/Wav2Vec/Nemo models: every model gets <0.2 WER score
- Together with heads of related teams introduced the process of project management in short and long-term distance to balance the work-load of the team and prevent delays on key projects: in 2022 all KPIs were met successfully
- Mentored 3 team members: supervised junior specialists in building and deploying NLP models; practiced regular code review and feedback loops
- · Collaborated with management and production teams to create 4 demo services of AI products for potential clients

Sber Moscow, Russia

DATA SCIENTIST

Aug. 2020 - Aug. 2021

- Build and deployed an ensemble of NER models for contract recognition system to process 80% of documents automatically
- Worked on comprehensive reviews system from internal clients (sentiment analysis, topic modeling, custom classification models) to improve >90% business processes with AI
- Improved process of documents's report generation with summarization model as a first step saving from 5-10 minutes per document

Visiology Moscow, Russia

JUNIOR DATA SCIENTIST Sep. 2019 - Jun. 2020

- · Virtual assistant ViTalk team: improved assistant's functionality to work with relative dates written by user
- · Worked on speech2text algorithm that allows user to control BI dashboards by voice

Skills_

Scientific Areas DL, NLP (NER, Summarization, Text Generation), Speech (ASR)

Deep Learning and Data Analysis PyTorch, Sklearn, Numpy, Pandas, Transformers, NLTK, Spacy, Vosk, Nemo **Data Science workflow** Data Augmentation, Wandb, Docker, Flask, Streamlit, AWS, SQL(basic)

Languages Russian (native), English (advanced), French (basic), German (basic)

Projects

InstructionNER: Generative NER

github

HTTPS://GITHUB.COM/OVBYSTROVA/INSTRUCTIONNER

July., 2022

- · Unofficial implementation of InstructionNER paper
- Tuned T5 model to extract entities from input text with instruction prompt

Neural Fake News Detector and text GANs

June, 2020

HSF

HTTPS://GITHUB.COM/OVBYSTROVA/DPL

- Used GPT-2 model to generate short texts with different sampling types
- Built several (BiLSTM with different embeddigs, BERT models) binary classifiers to detect fake texts
- Compared accuracy of classifiers based on sampling type
- Trained language models as GANs with explored classifiers

Education

National Research University Higher School of Economics

Moscow, Russia

M.S. IN COMPUTATIONAL LINGUISTICS / NLP

Sep. 2020 - June. 2022

- GPA: 8.14
- Bachelor Thesis: "Neural Fake News Detector as a New Evaluation Metric for Text GANs".
- Master Thesis: "NLP Augmentation Techniques for Russian Language".
- · Assisted on "Introduction to Data Analysis", "Introduction to Deep Learning" courses, Faculty of Computer Science

January 5, 2023 CV



Unreasonable Effectiveness of Rule-Based Heuristics in Solving Russian SuperGLUE Tasks

Dialogue conference, Moscow

June 2021

- COWRITER
- https://arxiv.org/abs/2105.01192
- Implemented baseline solutions for RSG tasks: majority, random choice and random balanced choice
- Created heuristics for RUSSE, PARus, RuCoS tasks