Yury Belyakov

Contact Information

Location:	Moscow, Russia	Telegram:	@scoeur
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Education

July 2021 September 2017	Bachelor in Applied Mathematics, **Saint Petersburg University**, St. Petersburg

Work Experience

July 2022 May 2022	**NLP Engineer at PREPAIRE, Dubai** Developed a search engine for drugs, targets (target proteins) and diseases. It uses different medical databases (PubMed, Biorxiv, Medrxiv, Chemrxiv) to determine how similar the search query is to each of listed items (drugs, targets and diseases) based on: literature overlapping; semantic similarity (trained a FastText model over a 10GB corpus of drug-discovery related white papers); knowledge graph similarity (created a Neo4j graph database and used node vectorization techniques to get node similarity). Trained a T5 model for clinical trial results extraction.
May 2022 March 2021	**NLP Engineer at Gazprom Neft - Digital Solutions, St. Petersburg** Development of a Text2SQL dialogue system, that allows employees to query databases of their colleagues using natural language. Built a Natural Language Understanding system powered by RASA and PyTorch. Created a semantic search and fuzzy matching service. Developed a russian triplet extraction system. Created a MLOps pipeline powered by MLFlow for NLU model versioning and development.
November 2020 October 2019	**NLP Engineer at Wave.Video, Boston** Developed an automatic Text to Video Presentation application. The application includes various NLP tasks, such as: text summarization, text similarity and zero-shot text classification

Other projects

- Developed a hotline operator's assistant. It recognizes client's speech and searches their questions over a database of questions-answers to find the most relevant matches and presents them to the operator. Implemented as a macOS desktop application.

Technical Skills

Programming Languages:	Python
Machine Learning:	PyTorch, Transformers, scikit-learn, RASA, DeepPavlov
NLP Frameworks:	PyMorphy2, Spacy, NLTK
ML Prototyping:	FastAPI, Streamlit
MLOps:	MLFlow, Weights & Biases
Desktop:	PyQt
Other:	Git, Linux, Bash, SQL, openCypher, Docker, CI/CD

Languages

Russian:	Mother tongue
English:	Fluent