

# Anatoly Soldatov

ML Engineer

## Work Experience

09.2024 - 12.2024	Modern NER EL & RE ML Researcher	<ul style="list-style-type: none"><li>Reached <b>96%</b> accuracy on <b>NER</b> task via experiments using pretrained and <b>LoRA</b> fine-tuned <b>BERT</b>-based models</li><li>Researched and tried <b>ReLiK</b> model</li><li>Conducted training of <b>SPN4RE</b> on <b>NEREL</b> dataset achieving f1 score of <b>0.25</b></li></ul>
09.2024 - 12.2024	CV Project ML Engineer	<ul style="list-style-type: none"><li>Achieved <b>macro ROC-AUC</b> score of <b>99%</b> after training <b>VideoMAE</b> pipeline using <b>Transformers</b> library</li><li>Reduced <b>dataset size</b> <b>3</b> times via smart frame selection techniques without accuracy drop</li><li>Implemented demo application using <b>Gradio</b> that supports usage of <b>3</b> models interchangeably</li><li>Monitored <b>3</b> experiments via <b>ClearML</b> of learning models on datasets after different preprocessing</li></ul>
06.2024 - 09.2024	One-zero-eight ML Engineer	<ul style="list-style-type: none"><li>Set up a search pipeline using <b>MinIO</b>, <b>SentenceTransformers</b>, <b>LangChain</b> and <b>FAISS</b></li><li>Added functionality for validating <b>5</b> hyperparameters of the entire pipeline using <b>HitRate@k</b>, <b>MAP@k</b>, <b>MRR@k</b> metrics on manually annotated <b>60</b> rows</li></ul>
06.2023 - 09.2023	Follow My Reading ML Engineer	<ul style="list-style-type: none"><li>Added functionality for using <b>audio recognition models</b></li><li>Implemented a way to obtain information about request processing tasks in a <b>multi-threaded queue</b></li><li>Implemented the ability to <b>limit the number of API requests</b> by <b>10</b> per user per minute</li><li>Wrote a module with <b>30</b> functions for <b>testing endpoints</b> interacting with <b>ML models</b></li></ul>

## Education

2022 - 2026	Innopolis University Bachelor	Applied Artificial Intelligence
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## Languages

Fluent	Русский	C2
Proficient	English	C1
Basic	Türkçe	A2
	Español	A1

## Contacts

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## Technology Stack

ML	Pandas · Polars · PySpark	<div></div>
	Sklearn · Catboost · XGBoost	<div></div>
	PyTorch · Lightning	<div></div>
NLP	nltk · spaCy · Gensim	<div></div>
MLOps	Tensorboard · ClearML · WandB	<div></div>
	MLflow · Airflow	<div></div>
	Streamlit · FastAPI · Gradio	<div></div>
Langs.	Python	<div></div>
DB	PostgreSQL · MongoDB	<div></div>
	FAISS · Qdrant	<div></div>
Tools	Git · GitHub	<div></div>
	Linux	<div></div>
	Docker	<div></div>
	VSCode + Codeium	<div></div>