

Dani El-Ayyass

Research Scientist

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Personal Info

AI Enthusiast with over 5 years of experience with strong Data Science and Machine Learning background. Being passionate about open-source, I develop projects on [GitHub](#).

Field of interests: NLP, RL, MLOps, Graphs, Distributed Systems

Skills

Languages: Python, SQL

ML/DL: NumPy, Scikit-Learn, PyTorch

Big Data: Hadoop, Hive, Spark

DevOps: Linux, Git, Docker, CI

Achievements

- Almost 500 stars on [GitHub](#)
- Published 10 packages to [PyPI](#) with 25k+ downloads
- Worldcoin "Honorable mentions" [project](#) at [ETHOnline 2022](#)
- Contributor to [PyTorch](#), [Scikit-Learn](#), [SciPy](#)
- Open Data Science **Best Contributor 2020**

Projects

- [QaNER](#) - unofficial implementation of QaNER paper (NER via Extractive QA)
- [RLlib](#) - Reinforcement Learning library
- [PyDFS](#) - Distributed File System written in Python
- [MUSE as Service](#) - REST API for sentence embeddings

Experience

- **NLP Team Lead, SberDevices** 2022-10 — present
 - Working on AGI, namely LLM, AI Alignment, Instruction Tuning, RLHF.
 - Developing GigaChat - ChatGPT-like model.
 - Managed a team of **12 people** responsible for the quality of music, video and e-com search on a Virtual Assistant "Salut"
 - Improved music search quality by **5% weighted P@1**
- **NLP Tech Lead, Sber AI Lab** 2021-05 — 2022-10
 - Built and deployed **15 models** to cover 100% department's bussiness processes with AI solutions
 - Developed en-ru and ru-en documents T5 translator with **BLEU > 45%**
- **Senior NLP Engineer, Tinkoff AI Lab** 2021-02 — 2021-05
 - Implemented BERT-based DSSM question answering model for Virtual Assistant "Oleg"
- **Middle NLP Engineer, MTS AI Lab** 2020-05 — 2021-02
 - Developed BiLSTM and BERT-based NER models for medical chat-bot
 - Improved models quality with pseudo-labeling by **10% F1 score**
- **Junior Data Scientist, Sberbank** 2018-07 — 2020-05
 - Improved a credit scoring model by **15% ROC-AUC**
 - Built models for clients clustering and satellite image detection ([paper](#))

Education

- **Lomonosov Moscow State University** 2019 - 2023
 - Master of Science in Applied Mathematics and Computer Science
 - **Diploma Thesis:** «Optical Character Recognition for Russian Handwritten Text using Deep Neural Networks»
 - Teaching Assistant at «Deep Learning» Course
- **Plekhanov Russian University of Economics** 2015 - 2019
 - Bachelor of Science in Applied Mathematics and Computer Science
 - **Diploma Thesis:** «Assessment of Credit Organizations Borrowers' Default Rate»