Danil Kizeev

Keywords

python, optimization, machine learning, data science, statistics, numpy, pandas, PostgreSQL, ClickHouse, scipy, transformers, pytorch, C++, Rust, NLP, Docker.

Experience

2021 Apr –
2021 Jun
Data Science intern, *Lead by lead DS @ Hyprr*, Saint-Petersburg
Solved case of automatic categorization of users posts in social network. Scraped, labeled the data. Used NLP for CV domain.

2022 Sep –
2023 Mar
Game developer @ Hive, Perm, Russia
Applying genetic and differential evolution algorithms to build an efficient matchmaker for multiplayer in online mobile games; making visualizations via egui and macroquad; building data collection pipelines; rust language. Making player and debug cameras; building raycasting.

2023 Oct –
AI Engineer @ Exponenta, Moscow, Russia
Working with repricer on marketplaces. Implementing optimal prices models using contextual multi-armed bandits (CMAB). Implementing models of competitors using boostings and neural networks (CLIP, siamese, XGB). Creating framework for data labelling using python-telegram-bot (PTB). Creating models of trend, seasonality, demand using time-series models (Prophet, XGB, xARIMAx, linear) and neural networks (BiLSTM, Transformers). Applying to production with customer. Lifting using Docker+Flask for MVP's

Education

University

2017 – 2018
Cybersecurity department, Bachelor, *Tver State University, Russia*

Sep 2018 –
Jun 2021
Applied mathematics and computer science, Bachelor, *Saint-Petersburg State University, Russia*

Sep 2023 –
Jun 2025
Data Analytics, Master, *Saint-Petersburg National Research University of Information Technologies, Mechanics and Optics, Russia*

MOOCs, CSC, YSDA

Apr 2018 -
Jun 2018
Algorithms: theory and practice. Methods.,
https://stepik.org/course/217

Sep 2018 -
Nov 2018
Basics of programming and vectorization with R,
https://stepik.org/course/497

Sep 2019 -
Jan 2020
Elements of financial mathematics,
https://intuit.ru/verifydiplomas/101301190

Jun 2020 -
Jun 2021
Machine Learning Course,
https://mlcourse.ai

Feb 2022 –
May 2022
Mathematical statistics @ CSC

Sep 2022
NLP course @ YSDA

Sep 2022
Deep CV & Graphics course @ YSDA

Projects

Study projects/pet projects

Mindmaps for everything	https://github.com/breadfan/mindmaps-for-everything **Smart diagrams for math-related objects** Created mindmaps for better understanding ("Zettelkasten" inspiration) and keeping in mind tech-related objects. There are statistics, NLP, optimization and deep learning using pytorch now. Maps are available in **rus** and **eng** languages.
Lyric music recommender	https://github.com/breadfan/lyrics-based-songs-recommender **Using doc2vec and BERT embeddings for recommendation based on songs lyrics.** Created models with doc2vec and DistilBERT, created UMAP reduced embeddings for 2-d and 3-d visualisations (Plotly). Generated bot using «telegram» library.
Automatic posts categorization	https://github.com/breadfan/Bachelor-Thesis **Applying BERT for automatic posts categorization in social network.** Using BERT, BERTopic and word2vec + TF-IDF for labeled images/video categorization. Upgraded quality of models from BERT to word2vec. Having categories need to make mapping from labels amount of posts to that categories for making simple recommendations.
Accelerated MDM-method	https://github.com/breadfan/Accelerated_MDM_method **Researching acceleration of an MDM-method** As a course work for third year two methods were implemented: MDM and accelerated MDM methods with visualization for 2- and 3-dim. Cases for running time comparison.

Technical Skills

Languages	Python, Rust, plpgsql, C/C++
VCS	Git
OS	Windows, Linux (Ubuntu)

On the Internet

GitHub	https://github.com/breadfan
StackOverflow	https://stackoverflow.com/users/9850300/taciturno
LinkedIn	https://www.linkedin.com/in/rocauc
LeetCode	https://leetcode.com/breadfan/
Telegram	https://t.me/rocauc