Vladislav Malkov

Data Scientist/Machine learning engineer

Contacts

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Work experience

Jun 2023 – present

Tinkoff Bank, Data Scientist developer. Moscow, Russia.

- Development of NLP deep learning models for dialog processing.
- Development of a model for classifying the presence of refusal to interact with the bank in a dialog.
- Fine-tuning and Prompt engineering of large language models for generating dialogues and replicas in the collection banking domain.
- Developed a model for checking that the script is followed by a call center operator. Conducted a statistical analysis of the impact of this metric and various additional features of the dialog on the financial effect of the collection domain.
- Conducting experiments on the design of smart dialog embedding.

Aug 2022 - Jun 2023

PJSC Sberbank, Data Scientist developer. Moscow, Russia.

- Working with a large array of data (analysis, structuring, processing) using Pyspark, Python, Hadoop, Apache Spark, SQL
  Development of algorithms for tracking fraudulent transactions.
- Developed a showcase of the relationships of the main banking entities (employee, client, device, account).
- Developed an algorithm for tracking abnormal transfers to employee cards.
- Developed an algorithm for tracking card theft by bank employees.

July 2022 – Dec 2023

Higher School of Economics University, Data Science researcher at the International Bioinformatics Laboratory. Moscow, Russia.

- Research of the possibility of using and interpreting neural networks to solve the problem of recognizing secondary DNA structures.
- Developer and author of the patent «Unified library of software and analytical tools (framework) aimed at predicting the location of genomic functional elements by deep learning methods based on omix molecular biology data».

Apr 2022 – July 2022

Higher School of Economics University, teacher assistant in Introduction to Data Science. Moscow, Russia.

- Prepare seminars materials and home works, check students' works, answer both theoretical and practical machine learning, programming questions, which help students more efficiently assimilate information.

Education

2019 – 2023 **Bachelor degree**, Higher School of Economics. Moscow, Russia.
- Faculty of Computer Science, Applied Mathematics and Informatics.

Skills

- **Machine learning**
  Catboost, Xgboost, Numpy, Matplotlib, Sklearn, Seaborn
- **Deep learning**
  Pytorch, Transformers, PEFT, LoRa
  CNN, RNN
- **Work with data**
  Pyspark, SQL, Pandas
- **Recommender system**
  User2User, LFM, ALS
- **NLP**
  Transformers, Gensim Word2Vec
- **Programming**
  Python, C/C++
- **Backend**
  Flask
- **Technical English**

Languages

- **Russian**
  Native speaker
- **English**
  Intermediate

Interests

- **Sport**
  Swimming