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PROFESSIONAL SUMMARY

Ambitious data scientist with 1.5 year experience of building statistical and ML models to make data-driven decision making for business needs. While working on recommender systems and other projects, developed teamwork, problem-solving and communication skills through interaction with colleagues from other departments. Pursuing a Master's degree in Data Science at the University of Vienna and expanding technical knowledge by reading articles, books and attending conferences.

WORKING EXPERIENCE

01/2024 – 10/2024
Moscow, Russia

Junior data scientist M.Video

M.Video - Russia's leading e-commerce and consumer electronics retailer with more than 1200 stores across the country.

Key Achievements:

- Developed a item-item type recommendation system for predicting accessories to the main product. Based on A/B test, the implemented method increased the conversion rate of viewing the main product to viewing the accessory card by 13.4%, to adding to cart by 10%, to buying by 7%.
- Developed a user-good type recommendation system for recommending product category. This method is used in personal recommendations of the company, as well as for personal mailings of offers via email. The developed model allowed to increase the conversion to purchase on retrospective data by 25% in comparison with the factorisation methods used before.
- Developed tools to track suggested recommendations as well as recommendation metrics. This dashboard allowed us to catch errors in the model's performance and correct them.

Technologies used: Python, PostgreSQL, Amazon S3, Airflow, Docker, GitLab, Kubernetes, CI/CD.

06/2023 – 01/2024
Moscow, Russia

Intern data scientist M.Video

Key Achievements:

- Built a mathematical model to predict the number of candidates at each stage of recruitment. Developed an interface for HR managers to schedule salesperson hiring. The use of the tool by the company's HR department to plan a month ahead allowed for more efficient allocation of department resources and online tracking of the hiring plan.
- Developed an autoregressive model to improve the allocation of net sales plans at the shop level. Reduced the average percentage error compared to manual planning by an average of 5.7%, and the standard deviation decreased by 4.4%. The standard deviation of the difference between actual sales and plan was improved by 20 %. The model resulted in more efficient use of labour in the shops.
- Developed a dashboard to track the dependence of NPS on various factors. The developed tool allows you to see the dependencies of 7 metrics, including NPS on more than 30 factors. Customer experience managers use it to adjust shop operations, which helps to increase the company's profits through loyal customers.

Technologies used: Python, PostgreSQL, Amazon S3, Airflow, Docker, GitLab, Kubernetes, CI/CD.

EDUCATION

10/2024 – current
Vienna, Austria

Master Data Science
University of Vienna

09/2020 – 08/2024
Moscow, Russia

Bachelor Applied Mathematics and Computer Science
Moscow Power Engineering Institute (MPEI)

PROJECTS

01/2023 – 07/2023
Moscow, Russia

Deep Learning School

Academic Load: 180 hours

I engaged in a peer-to-peer system where students exchanged their work, providing opportunities for social interaction and promoting thorough code review practices. The primary topics covered classical machine learning algorithms, an introduction to deep learning, as well as computer vision problems.

Additionally, I gained practical experience by participating in several Kaggle competitions. These competitions involved various real-world tasks, such as churn prediction, image classification, and segmentation.

I chose generative AI as my final project. First, I researched CycleGAN models and pix2pix models by reading the articles that introduced them. Then I implemented these models using the PyTorch Python library.

02/2023 – 03/2023
Moscow, Russia

Salary prediction based on vacancy description

This project is from the Higher School of Economics NLP bootcamp. The goal was to predict salary from vacancy descriptions using machine learning. I tried various approaches, including text preprocessing with Python's NTKL and Spacy libraries, and training many models, such as CatBoost, XGBoost, random forests, and PyTorch neural networks. The BERT embedding model from transformers library yielded exceptional results after fine-tuning. Also, there was a Kaggle competition, in which I got 6th place.

SKILLS

Technical skills: Python, SQL, Airflow, Amazon S3, Kubernetes, Git, CI/CD, Statistics, Machine Learning Recommender Systems, Computer Vision

Personal skills: Communication, Attention to Details, Problem solving, Self-management.

Languages: Russian - native, English - C1 (7.5 IELTS), German - A1