Boris Tolstokulakov

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Experience

CORTANISCO LTD, Sr. ML Engineer/Data Scientist (29.08.2023 - Present)

- **Led the end-to-end development of a cold-start recommendation system,** which significantly reduced churn and increased user engagement by providing relevant content for new users(exact figures under NDA)
- **Designed and prototyped** a system for traffic splitting and experimentation frameworks for the entire recommendation system(**millions** of users), impacting all A/B tests and improving accuracy in experimentation and decision-making.
- **Led the end-to-end development of a business rules application service** that automated recommendation adjustments, eliminating manual processes and reducing development time, while identifying critical issues in business requests.
- **Built a hierarchy of metrics**, developed new metrics and dashboards to evaluate the effectiveness and diversity of recommendations, ensuring continuous improvement and maintaining high user engagement.

EVRAZ, Data Scientist (2020 – 28.08.2023)

- **Spearheaded AI projects** in an Agile environment, with a primary focus on classical ML, data analysis, and hypothesis testing, contributing to advanced decision-making capabilities.
- **Developed and deployed computer vision models** to detect individuals in danger zones, significantly enhancing workplace safety through real-time monitoring and intervention.
- **Designed and implemented a chemistry recommendation system** by integrating business rules with ML models, streamlining and optimizing business operations. This project was carried out in collaboration with cross-functional teams to ensure seamless integration and operational efficiency.
- **Contributed to the development of a DS library** for the division, incorporating classical ML packages, internal metrics, and MLflow for tracking, which improved productivity and enabled faster completion of tasks for team members.

Education

Novosibirsk State University

- Faculty of Mechanics and Mathematics | Major: Mathematics and Computer Science
- Diploma Research Project: Built a hybrid model for brain tumor classification, integrating a CNN, prototype layer, and soft decision tree for enhanced interpretability and accuracy.

Specialized Educational Scientific Center NSU

Skills

- Programming Languages: Python
- Machine Learning Libraries: Scikit-learn, LightGBM, XGBoost, PyTorch, CatBoost
- Data Analysis Libraries: Pandas, Numpy
- Visualization Tools: Matplotlib, Plotly, Seaborn
- Version Control: MS Azure, Git
- Other Tools:FastAPI, A/B Testing, Azure Boards, AutoML, PySpark, Docker, MLflow, CLearML, HuggingFace

Activities

- UC Berkeley, Deepmind: Large Language Model Agents
- Hugging face: Deep Reinforcement Learning
- Hard ML: Ranging and Matching; Advanced A/B testing
- ODS.AI: DLCOURSE.AI, MLCOURSE.AI