

Yeldos Adetbekov

Lead Machine Learning Engineer

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Experience

Team Lead, Machine Learning & MLOps *QazCode LLP*

Jan 2023 - Present

- Developed in-house ML infrastructure using Metaflow alternative for Spark on kubernetes; implemented CI/CD pipelines, reducing deployment time by 50%.
- Built a text2SQL assistant integrated with JIRA, automating task generation and reducing TTM by 60% in adhoc tasks.
- Proposed real-time highload scalable scoring pipelines architecture with Kubernetes, BentoML, and Kafka.
- Led the Digital Team Lead project, implementing an LLM-based automated code reviewer, improving code review 4 times reducing bugs till 90%.
- Compressed user behavior patterns (internet traffic) into vector representations, reducing storage footprint by 70,000x using Tiny BERT architecture.

Senior Data Scientist *Beeline Kazakhstan*

Jan 2019 - Dec 2022

- Built vector representations of customers, devices, and base stations using autoencoders, enhancing business insights and enabling a 20% improvement in look-alike modeling for customer targeting.
- Streamlined data analytics workflows for ML development, promoting efficient and reproducible experiments
- Implemented real-time counterparty scoring, cutting decision-making time by 3-5 minutes
- Developed scorecards for external fintech clients, improving model GINI by 2-4 points
- Designed lead generation models, increasing communication effectiveness by 14 times (LIFT on 1st percentile).

Education

Master of Computer Science *al-Farabi Kazakh National University*

Sep 2021 - Jun 2023

Dissertation: Accelerating Learning with a Imaginary Pretrained Neural Network

Bachelor of Computer Science *al-Farabi Kazakh National University*

Sep 2015 - May 2019

Diploma work: Text Alignment using Siamese Neural Networks for Machine Translation

Yessenov Data Lab *Yessenov Foundation*

Jun 2018 - Aug 2018

"Data science" summer school scholarship. One of 20 nationwide recipients.

Academic Mobility Program *Higher Institute of Engineering of Lisbon*

Sep 2017 - Feb 2018

Studied Machine learning, Digital image processing (CV), Multimedia Authoring by the .

Engineering Summer School *St. Petersburg State University named after Peter the Great*

Jun 2016 - Jul 2016

Studied Reconfigurable Microelectronic Devices (Altera, Verilog)

Achievements and Awards

2017 IX Republican student subject olympiad on the specialty "Information Systems" - Diploma I

2017 Science scholarship of Shakhmardan Yessenov Foundation

2016 International Team Olympiad in solving business cases (Changellenge cup Kazakhstan. Leroy Merlin case)

2016 ACM ICPC Kazakhstan

2015 Republican Student Olympiad on informatics - Diploma II

2013 International V Eurasian Olympiad on informatics.

Technical Skills

- Python, PySpark, C/C++, SQL, Golang, Scala
- PyTorch, TensorFlow, Keras, LLama-index, Scikit-Learn, XGBoost, LightGBM, CatBoost
- Kubernetes, Docker, MLflow, DVC, Spark Streaming, BentoML, Metaflow, Airflow, Great Expectations
- HDFS, Kafka, Redis, S3, PostgreSQL, Clickhouse, Minio, MongoDB
- Gradio, Chainlit, Django, Flask, Vue.js, Nuxt.js
- Git, JIRA, GitLab, AWS, Google Cloud Platform
- Metabase, OpenMetadata, Power BI, Matplotlib, Seaborn

Interests and Links

- Lean DS, agile, culture and practices of coding
- Test Driven Development
- ITIL and governance
- RAG, Agentic models, recommendation systems
- Data Science, Machine Learning and Deep Learning
- Web Design and Development, UI/UX Design
- Component-based SPA Development

Personal Notion Page

GitHub Article