Minko Bogdan

Data scientist | ML Engineer

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Motivated specialist with a strong interest in developing expertise in Data Science and ML technologies.
My core competencies include data preprocessing and exploratory data analysis, conducting experiments to build ML models, and integrating them into projects while considering business requirements. I am skilled in analyzing and implementing necessary business requirements within a project framework.

Key Skills

Languages: Python	**Data Visualization:** Seaborn, Matplotlib	**Classic ML:** Scikit-learn
Data processing: SQL, Pandas, NumPy,	**LLM-Engineering:** Langchain, Pydantic AI, OpenAI	**Deep Learning:** Pytorch, Transformers
Web-Frameworks: FastAPI	**Containerization:** Docker	**Others:** Linux, Git, Github, Gitlab

Experience

ML-Engineer   **October 2024 - present**
Raft Digital Solutions
Department: Raft Security (AI Security Lab)

Key Achievements:
- Developed user-LLM level dialogue filtering for an internal product, leading the full ML pipeline development cycle—from hypothesis formulation to model tuning and integration into the project.
- Improved the classifier's F1-score for user request classification by 14% compared to the baseline.
- Initiated and developed a Russian-language benchmark for evaluating ML pipelines, leveraging synthetic data and text augmentation via LLM to expand coverage of various scenarios.
- Designed and integrated a token counting service and implemented an alerting system using Prometheus.
- Built Grafana dashboards to monitor key business metrics, aggregating data from filtering and token counting services.
- Supervised the implementation of custom policies for the project, providing expert guidance on LLM engineering tasks.
- Improved Developer Experience by introducing the UV package manager, reducing project build times by 30%+ and unifying the virtual environment.
- Conducted load testing of LLM services to assess their stability under peak loads.

Public Speaking & Publications:
- Contributor to OWASP LLM Top 10
- Speaker at the internal Smart Friday conference at Raft
- Presented the project at a case lecture at ITMO University
- Authored multiple publications on Habr

Projects

Data scientist   **February 2023 - May 2024**
"Predicting Pump Failure Based on Indirect Indicators"
Platform: Tyumen Industrial University

- Analyzed field data and tested hypotheses for predictive analysis of oil pump failure.
- Engaged with domain experts to identify business requirements for developing an ML solution.
- Developed an ML model to detect abnormal pump behavior during well operation, achieving a failure prediction horizon of up to 30 days.

Public Speaking & Publications:
- III Place Diploma in the Scientific Development Competition "Best Innovative Project" named after PhD in Technical Sciences V. I. Muravlenko.
- II Place Diploma at the XI International Scientific and Practical Conference-Competition "New Information Technologies in the Oil and Gas Industry and Education."
- VAK Publication: Minko B.S. "ELECTRIC CENTRIFUGAL PUMP UNIT PREDICTION FAILURE BASED ON INDIRECT INDICATORS", Problems of Gathering Treatment and Transportation of Oil and Oil Products, 2024, Vol. 12, No. 19.
- Received 2 Certificates of State Registration for computer software.
- Speaker at ODS.ai event: "ML in Manufacturing | Data Fest 2024" (online format).
- Published an article on Habr.

Education

Bachelor's Degree in Technical Physics
Tyumen State University
School of Natural Sciences
Graduation Year: 2024

Master's Degree in Artificial Intelligence
ITMO University
Institute of Applied Computer Science
Graduation Year: 2026

LANGUAGES

Russian: native
English: B2
German: B2/C1

ACHIEVEMENTS

Certificates & Diplomas: link