Anton Voskresenskii

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LinkedIn

About Me

Machine Learning Engineer with 6+ years of experience, specializing in product-oriented data science and a proven track record of innovating and deploying ML solutions in large-scale companies

Technical Specialties: Expertise in time-series forecasting, geospatial analysis, signal processing, ML on telemetry and sensor data, AI applications in heavy industries, A/B testing, XAI

Work Experience

- **Saudi Aramco (oil&gas)** — Saudi Arabia, Onsite
  Machine Learning Team Lead (Full-time) — *June 2022 - Present*
  - Led ML product development, achieving a 140% improvement in prediction accuracy. The product supports daily decisions of 20+ engineers across the company, leading to increase in operational efficiency and a 80% reduction in downtime, lowering operational costs by approximately $360,000 annually
  - Developed and integrated a forecasting model into a company's existing product to optimize production planning accuracy. Downtime reduced by 5%, saving up to $1.1 million per year
  - Led a project that concluded using the more expensive material was not economically viable, saving $10.3 million in the first year by preventing unnecessary spending
  - Effectively grew a team from 0 to 5 data scientists, promoting a culture of innovation and results-oriented development
- **Biocad (biotech)** — Remote
  Machine Learning Engineer (Full-time) — *June 2021 - June 2022*
  - Developed and integrated a real-time ML model, that monitors O2 content and pH levels in SCADA system. Incorrect sensor control time reduced by 93%, waste minimized by 4.5%, yield boosted by 6%, saving around $405,000 annually
  - Increased recruitment ad click-through rate (CTR) by 36%, attracted 10% more qualified candidates, improved next round success rate by 25%, and reduced hiring costs by $70,000 annually by performing A/B testing
  - Designed and maintained an ETL pipeline for incremental data collection, improving data accuracy and availability
  - Conducted 50+ tech interviews and mentored 2 junior ML engineers, contributing to team growth and skill development
- **Gazprom Neft (oil&gas)** — Hybrid
  Data Scientist (Full-time) — *June 2018 - June 2021*
  - Developed a model that predicts pump failure dates using time-series data. As a result 83% unplanned outages avoided, saving an estimated $1.5 million annually
  - Developed ML model that reduced reserves uncertainty by over 50% and as a result a project's expected monetary value (EMV) became positive based on model predictions, saving up to $120 million in potential misallocated funds
  - Increased simulation model calibration quality by 150% and accelerated business process by 2 times through time-series clustering and geospatial zoning
  - Used proxy models to predict reserves, speeding up evaluation and sensitivity analysis by over 10 times and achieving a MAPE of less than 10%
  - Built and maintained an ETL pipeline for data of 1300+ wells that are used in daily updated dashboards
  - Mentored 3 junior ML engineers and led a DS course for 45+ data analysts and managers

Skills Summary

- **Languages**: Proficient in Python, R and SQL
- **Frameworks**: scikit-learn, CatBoost, LightGBM, XGBoost, NetworkX, PyTorch, Optuna, SciPy, Prophet, ETNA, Greykite, tsfresh, SHAP, sktime, NumPy, Pandas, Polars, GeoPandas, Shapely, Plotly, Streamlit, PyQt, Briefcase, pytest, unittest
- **Tools**: MLFlow, Docker, Airflow, GX, NiFi, Git, AWS, Spark, Hadoop, FastAPI, PostgreSQL, MongoDB, QGIS
- **Soft Skills**: Strong skills in Writing and Public Speaking. Fluent in English and Russian

Education

- **ITMO University** — Saint Petersburg, Russia
  PhD, Computational and Applied Mathematics — *2020 - December 2024*
- **Heriot-Watt University** — Edinburgh, UK
  MSc, Reservoir Evaluation and Management — *2017 - 2018*
- **Irkutsk State University** — Irkutsk, Russia
  BSc, Geology and Geochemistry of Fossil Fuels — *2013 - 2017*

Honors and Awards

- Keynote Speaker, Tinkoff Meetup, on time-series forecasting and physics-assisted ML, June 2023
- 1 out of 50+ teams at Subsurface AI Solutions GeoHack, designed a ML solution for 3D seismic trace analysis, November 2022
- 3 out of 45 teams at SPWLA Machine Learning Competition, developed a ML model to predict reservoir properties, February 2022
- Authored 12 scientific papers on feature selection and XAI, simulation model calibration, multivariate time-series forecasting, and expert knowledge extraction from ML models