

Simon Mokrov | Data Scientist

Amsterdam, the Netherlands

CONTACTS

✉ mokrovsimon@gmail.com	☎ +31 (06) 579-875-47	🌐 linkedin.com/in/sem-wett
✉ simon.mokrov@outlook.com	☎ +31 (06) 579 875 47	📧 sem_wett
🐙 github.com/semwett0301	🔗 gitlab.com/semen.mokrov	🗣️ English Russian Dutch (A1)

ABOUT ME

Data Scientist with a robust foundation of **3+ years in software engineering**, bringing extensive experience in building scalable, high-performance systems across the full stack. Skilled in programming, data modeling, and statistical analysis, with hands-on expertise in Python, machine learning workflows, and visualization.

Professional background spans enterprise retail, EdTech, and banking software, where I delivered impactful features, optimized performance, and enhanced system scalability. Holding a Master's in Digital Driven Business (AUAS, Amsterdam), I specialized in data-driven development, machine learning, and applied statistics.

APPLIED PROJECTS

- Machine Learning Pipelines** — Performed full-cycle ML workflows including exploratory data analysis (EDA), feature selection and engineering, and model development using Decision Trees, Random Forest, Linear Regression, ElasticNet, and XGBoost. Applied cross-validation and hyperparameter tuning to improve generalization and performance.
- Deep Learning** — Developed and trained Multilayer Perceptron (MLP) and Recurrent Neural Network (RNN) models as part of AI systems coursework.
- Statistical Analysis & Clustering** — Conducted statistical EDA, applied feature engineering, and implemented clustering algorithms (KMeans, DBSCAN, HDBSCAN) to uncover data structure. Performed hypothesis testing and statistical validation to ensure robustness.
- Recommender Systems** — Built multiple recommendation engines (SVD++, item-based and user-based collaborative filtering, SLIM) and evaluated them across five key metric categories (accuracy, diversity, novelty, serendipity, coverage). Deployed systems with custom backend and frontend components.
- Causal Inference** — Designed and applied multi-level regression linear models to extract causal insights from large-scale scraped datasets, identifying key factors influencing observed outcomes.
- Web Scraping & Data Engineering** — Collected and stored a large-scale dataset (over 1M movie records) using Scrapy and Selenium.

RESEARCH PROJECTS

MultiEval: Bias-Mitigated, Cost-Efficient LLM-as-a-Judge Framework In submission (2025)

Co-authored with a Senior Researcher from **Amazon Research**, this forthcoming paper presents **MultiEval**, a novel evaluation framework addressing core limitations of LLM-as-a-Judge systems—namely *position bias*, *length bias*, and *high computational cost*.

The framework integrates two modular components:

Calibrated Judge: mitigates position bias using randomized prompt swapping and leverages a cascade of fine-tuned and high-capacity LLMs for cost reduction.

Calibrated Scorer: applies a post-hoc logistic regression model to correct for length bias in pairwise comparison results.

MultiEval was evaluated on **Vicuna** and **AlpacaEval** datasets, showing improved fairness, reduced verbosity-related discrepancies, and lower evaluation costs compared to existing frameworks. This work contributes a **scalable and bias-resistant evaluation pipeline** for future LLM benchmarking research.

SKILLS

Data Science & ML: Python, SQL, Pandas, NumPy, SciPy, scikit-learn, XGBoost, CatBoost, Decision Trees, Random Forest, ElasticNet, PyTorch, MLP, RNNs, Transformers, KMeans, DBSCAN, HDBSCAN, SVD++, User/Item-based CF, SLIM

Data Engineering & MLOps: ETL pipelines, MLflow, Docker, Git, CI/CD, AWS/GCP

Visualization: Matplotlib, Seaborn, Plotly, Tableau

Software Engineering: JavaScript, TypeScript, Java, Kotlin, C, React, Redux (TanStack/RTK), Vue.js, Next.js, NestJS, Spring Boot, FastAPI, gRPC, Kafka, RabbitMQ, PostgreSQL, MongoDB, Redis

SOFTWARE DEVELOPING EXPERIENCE (> 3 YEARS)

- Frontend Developer** March 2024 – Present
X5 Tech — Largest retail in Russia
Developed and supported subscription services ("Package", "Abonement") in a corporate, cross-functional environment.
Tech stack: React, TanStack Query, pnpm, Axios, Chart.js, Python & FastAPI (reading)

- Increased customer retention by 12% through frontend improvements.
 - Reduced release time-to-market by 15% within 6 months.
 - Accelerated delivery of planned features by 10% via Scrum practices.
 - Reduced production issues by 18% after refactoring codebase.
2. **Backend Developer** July 2024 – Feb 2025
ITMO University – *Banking software for Gazprombank*
 Enhanced internal systems for bank guarantees, optimizing backend workflows and enterprise data processing.
Tech stack: Java, Kotlin, Spring Boot, Gradle, PostgreSQL, Kafka, SOAP, Docker
- Reduced average response latency by 12% via endpoint refactoring.
 - Improved PostgreSQL query execution by up to 20%.
 - Cut report build time from 90s to 60s.
 - Lowered server load by 20% after migrating to Kafka.
3. **Full Stack Developer** Nov 2023 – Apr 2024
Tune IT – *EdTech solutions*
 Developed and maintained the Skillfactory educational platform and the Polytech introduction system for abiturients, focusing on scalability, usability, and performance.
Tech stack: React, TypeScript, RTK Query, SCSS, Styled Components, Spring Cloud, Java, Kotlin
- Resolved 30+ product issues, improving stability.
 - Reduced design-to-development cycle by 25% with custom UI components.
 - Cut service latency by 13% through modularization with Spring Cloud.
4. **Full Stack Developer** Mar 2023 – Nov 2023
MagicGophers – *Social apps for VK (largest social network in Russia)*
 Built VK mini-apps for third-party clients, combining frontend and backend development.
Tech stack: React, VK UI, VK Bridge, VK Router, VK API, NestJS, PostgreSQL, Redis
- Delivered apps adopted by 10,000+ VK users.
 - Increased conversion rates by up to 20% via UI/UX improvements.
 - Reduced bug reports by 30% within 6 months.
 - Optimized DB queries, reducing latency by 25%.
5. **Frontend Developer** July 2022 – Mar 2023
ITMO University – *EdTech (remote exam monitoring)*
 Redesigned frontend for ITMOproctor, improving scalability and user experience.
Tech stack: React, Redux, Vue.js, JavaScript, WebRTC, WebSockets, Axios
- Reduced time-to-market for new features by 20% through modular architecture.
 - Decreased load times by 10% with optimized routing, state, and sockets.
 - Enabled secure streaming for 5,000+ concurrent exams using WebRTC.

EDUCATION

Master (MSc) <i>Amsterdam, the Netherlands</i> Major: Digital Driven Business Coursework: <ul style="list-style-type: none"> - Statistical testing - Machine learning - Clustering - Deep learning - Scrapy & Selenium - RecSys - Causal inference - MLR models - Research skills 	AUAS (HvA)	Bachelor (BSc) <i>Saint-Petersburg, Russia</i> Major: Software Engineering (System and Applied Software) Coursework: <ul style="list-style-type: none"> - Machine Learning Fundamentals - Artificial Intelligence Systems - Cloud Infrastructure - Linear algebra - Probability theory - Statistics - Calculus - Computer Vision - Algorithms and Data Structures - Databases and Data Management - Operating Systems and Low-level Programming 	ITMO University
Bachelor (BSc – Exchange semester) <i>Istanbul, Turkey</i> Major: Computer Science (exchange) Coursework: <ul style="list-style-type: none"> - Testing and analyzis - Parallel Computing - Advanced Databases - Computer Networks 	Ozyegin University		