

Stanislav Smirnov

Senior Data Scientist | Machine Learning Engineer

Contact Information

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Summary

Senior Data Scientist with **7+ years** of experience leading data-driven projects from concept to deployment. Expertise in scalable machine learning solutions, predictive modeling, and advanced analytics in E-commerce and Fintech. Proficient in Python, SQL, AWS, and Azure.

Technical Skills

- **Programming Languages:** Python, PySpark, SQL
 - **Machine Learning & AI:** Classical ML (Regression, SVM, Decision Trees, Boosting etc), Deep Learning (CNNs, LSTMs), LLMs
 - **Cloud Platforms:** AWS, Azure
 - **Data Engineering:** Data Warehouse Design (including Data Vault 2.0), ETL Development
 - **Tools & Technologies:** Airflow, Git, FastAPI, Docker
 - **Methodologies:** Agile (Scrum), Test-Driven Development
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Professional Experience

Cleverbridge AG *Cologne, Germany | Hybrid*

Senior Data Scientist *April 2024 – Present*

- **Lead Engineer** for the **Dynamic Retries** project:
 - Designed and implemented a comprehensive MVP that enhanced transaction retry success rates by **25-50%**, significantly boosting client revenue.
 - Oversaw end-to-end project development, leading a cross-functional team to implement scalable solutions on **AWS**, ensuring reliability and performance.
 - Mentored junior data scientists and engineers, fostering a collaborative and knowledge-sharing environment.
- **Technologies Used:** AWS SageMaker suite, AWS MWAA, Python, Docker, FastAPI

Data Scientist *December 2021 – April 2024*

- Pioneered the development of **CleverAutomations**, significantly reducing customer churn and expanding market reach:
 - **Predictive Modeling:** Led the design and implementation of ML-driven frameworks using **Python** and **AWS SageMaker**.
 - Provided critical domain insights and engineered features that improved model effectiveness by **10-15%**.
 - Collaborated with stakeholders to align product development with business objectives.
- **Technologies Used:** Python, AWS SageMaker suite, AWS MWAA

Data Engineer *September 2019 – December 2021*

- **Designed and implemented** a scalable data warehouse on **Microsoft Azure**, enhancing analytics capabilities and streamlining reporting:
 - Engineered a robust data warehouse using **Data Vault 2.0** modeling, improving data integrity and scalability.
 - Developed and optimized **ETL pipelines** with **Azure Data Factory**, **Databricks**, and **T-SQL**, reducing data processing time by **20%**.

- Developed resilient **Python microservices**, containerized with **Docker** and scheduled via **Apache Airflow** enhancing operational efficiency.
 - **Technologies Used:** Python, Azure Data Factory, Databricks, T-SQL, Docker, Airflow
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KOSTAL Group *Dortmund, Germany*

Machine Learning Intern *May 2017 – July 2017*

- Trained a gesture recognition NN model using **Keras** and **TensorFlow**:
 - Achieved **80%** validation accuracy on top-5 gestures using static images with **CNN**.
 - Improved model robustness through data preprocessing and augmentation.
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MegaFon *Republic of Bashkortostan, Russia*

Network Optimization Engineer *May 2012 – March 2015*

- Led the **Network Optimization Team** of three engineers:
 - Reduced CS call drop rate in 2G network by **0.2%**.
 - Increased Inter-RAT handover success rate in UMTS network by **0.8%**, improving overall network performance.
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Education

Master of Science in Electrical Systems Engineering *University of Paderborn, Germany (2015 – 2018)*

- **Specialization:** Signal Processing
 - **Thesis:** “Enhancing Object Detection in Fine Art Paintings Using Deep Learning Techniques”
 - Developed a custom **CNN** model that improved detection accuracy by **18%** over existing methods.
 - **Research Assistant Positions:**
 - Worked on statistical image processing, modeling plasmonic nanoparticles in COMSOL, and programming Lie groups in GAP.
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Publications & Certifications

- **Publications:**
 - “Deep Learning for Object Detection in Fine Art Paintings”, IEEE Xplore, 2020.
 - “Nonlinear Dielectric Properties of Random Paraelectric-Dielectric Composites”, Acta Materialia, 2021.
 - **Certification:** AWS Certified Cloud Practitioner
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Languages

- **Russian:** Native | **English:** Fluent | **German:** Intermediate (B2 Level)
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Additional Information

- **Volunteer:** Active member of the Bashkortostan branch of the Russian Union of Young Scientists.
 - **Awards:** Appreciation letter from the CEO of the Republic Bashkortostan branch of PJSC “MegaFon” for outstanding performance.
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References available upon request.