Stanislav Smirnov

Senior Data Scientist | Machine Learning Engineer

Contact Information

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Summary

Senior Data Scientist with **7+ years** of experience in data analysis, machine learning, and engineering. Proven track record of leading projects from concept to deployment, driving innovation, efficiency, and growth. Expertise in developing scalable data solutions, predictive modeling, and advanced analytics in E-commerce and Fintech sectors. Proficient in Python, SQL, AWS, and Azure, with a passion for turning complex data into actionable strategies that drive business success.

Technical Skills

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

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.
  - Developed robust **FastAPI endpoints** and containerized them with **Docker** for efficient deployment.

  - 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**.
  - **Automated Workflows:** Introduced automation with **AWS MWAA**, streamlining processes and enhancing scalability.
  - 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**, fostering a scalable and maintainable codebase.
  - Implemented workflow automation using **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*

- Developed a gesture recognition system 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.
  - Presented findings to the R&D department, facilitating integration of ML solutions into automotive applications.
- **Technologies Used:** Python, Keras, TensorFlow

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.
  - Analyzed calls and routes using SS7 trace at ISUP, TUP, MAP, and SCCP levels.
- Received an appreciation letter from the CEO of the Republic Bashkortostan branch of PJSC "MegaFon" for outstanding performance.
- **Technologies Used:** Siemens and Huawei Network Optimization Tools, MapInfo

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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**.
  - Published two research papers in reputable journals.

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

Languages

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

Additional Information

- **Volunteer:** Active member of the Bashkortostan branch of the Russian Union of Young Scientists.
- **Industry Focus:** Specializing in **E-commerce** and **Fintech**, helping businesses leverage data strategically for competitive advantage.

- **Passion & Goals:** Committed to continuous learning and applying cutting-edge technologies to solve complex problems; aiming to contribute to innovative teams, driving data-driven decision-making.

References available upon request.