

# Minichev Sergey

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## PERSONAL INFO

AI-enthusiast with over 4 years of programming, experienced at classical machine learning tasks and more sophisticated modern deep learning approaches, passionate about mathematics, AI and Web3 based products.

**Looking for Data Analysis, Machine Learning and Data Science positions.**

## EXPERIENCE

### Tatradev LLC

Moscow, Russia

#### • Machine Learning Engineer

October 2021 - (Present)

Machine Learning Deep Learning PyTorch MLops Time-Series NLP Computer Vision Backend

- **Recommendation Engine Development** Led the creation and implementation of a personalized recommendation engine using machine learning techniques. Achieved a significant **10%** increase in conversions by providing tailored product and service offerings to customers.
- **Demand Forecasting Model** Designed and implemented demand forecasting models to optimize inventory and reduce warehousing costs. Successfully reduced warehousing expenses by **3%** through accurate demand predictions and improved inventory management.
- **Sentiment Analysis Integration** Integrated advanced sentiment analysis algorithms into the customer feedback monitoring system. Facilitated timely identification of issues and reduced customer churn by **6.5%** by addressing concerns proactively.
- **Fraud Detection Model** Developed robust anomaly detection models for fraud prevention in financial transactions. Achieved a **10%** reduction in financial losses due to fraud by accurately detecting and blocking fraudulent transactions.
- **Automated Text Summarization** Applied Natural Language Processing (NLP) techniques for automated text summarization. Improved information retrieval efficiency by **20%** through automated summarization of large volumes of text.
- **Model Deployment and Productionization** Successfully deployed machine learning models into production using containerization with Docker and Kubernetes. Ensured scalability and achieved **99.99%** uptime, supporting high-throughput requests in the production environment.

### Tatradev LLC

Moscow, Russia

#### • Backend Developer

June 2020 - October 2021

Python FastAPI Flask Django HTTP RESTful API PostgreSQL SQLAlchemy RabbitMQ Redis Celery Flower

- Developed a RESTful API using Python and the Flask framework, resulting in **20%** reduction in response time and improved customer interaction.
- Integrated and deployed a Content Management System (CMS) for content management on client websites, increasing content update efficiency by **30%**.
- Successfully developed and deployed **5 microservices** to provide individual functional blocks of an application, enabling greater modularity and ease of maintenance.
- Utilized Docker containerization, reducing application deployment time by **40%** and simplifying the deployment process.
- Optimized database queries, improving system performance and scalability, resulting in **60%** reduction in query response time during peak loads.
- Integrated applications with cloud services like AWS and Microsoft Azure, ensuring **99.99%** uptime and high reliability.
- Implemented parallel requests processing, leading to **50%** increase in server-side solution efficiency and handling higher user loads seamlessly.

## EDUCATION

#### • Moscow Polytech University

Moscow, Russia

Bachelor Degree in Computer Science

Sept. 2021 - Aug. 2025

- **Department:** Faculty of Computer Science, Computer Science and Engineering Laboratory
- **GPA:** 4.5/5

#### • IUM and Steklov Mathematical Institute

Moscow, Russia

Mathematics

Sept. 2021 - Aug. 2022

- **Core Subjects:** Mathematical analysis, Higher Algebra, Geometries, Math of Machine Learning, Stochastic Processes

## PROGRAMMING SKILLS

- **Languages:** Python, C/C++, CUDA, Golang, Bash.
- **Tools:** Git, Docker, Kubernetes, CI/CD, Linux.
- **Big Data:** Hadoop, Spark, Apache Kafka, HDFS, Apache Cassandra, Apache Hive, Amazon S3
- **Frameworks:** PyTorch, Scikit-learn, Pandas, Numpy, SciPy
- **Core:** Calculus, Linear Algebra, Probability Theory, Statistics, Algorithms, Data Structures, Machine Learning, Deep Learning.