

# Sergey Popov

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As a Machine Learning Engineer with over 3 years of commercial experience, I specialize in optimizing machine learning models in high-load systems. I have a track record of success in building data pipelines, improving system performance, and conducting A/B tests that result in positive business outcomes.

## Work experience

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- Teza Technologies LLC** **Since Jul 2023**
  - Quantitative Developer* *5+ months*
  - Contributed to the optimization of high-frequency trading algorithms, with focus on transaction speed and accuracy.
  - Integrated machine learning techniques within trading strategies, improving market trend analysis and decision-making.
  - Supported the automation of key trading processes through machine learning tools, aiming to increase operational efficiency and reduce error rates.
  - Applied skills in Machine Learning and Algorithm Development, utilizing proficiency in C++ and Python, alongside frameworks like PyTorch, to enhance trading algorithms and processes.
- Dzen LLC (Formerly Yandex.Zen)** **Jan 2021 – Apr 2023**
  - Machine Learning Engineer* *2 years 3 months*
  - Launched and grew a novel recommendation item format from inception to 2M DAU through continual improvements in recommendation models and candidate selection.
  - Enhanced recommendations diversity by integrating user preferences data from a companion music streaming platform.
  - Boosted the CTR and Like rate by approximately 18% and 31% respectively within a span of 3 months through strategic feature engineering and model tuning.
  - Validated product hypotheses and evaluated the impact of changes by performing over 50 A/B tests.
  - Applied expert knowledge in Machine Learning, Data Analysis, and System Design along with proficiency in Java, Python, C++, SQL, Spring, Protobuf, ClickHouse, CatBoost to drive improvements and achieve business goals.
- Yandex.Zen (Yandex LLC)** **Sep 2020 – Dec 2020**
  - Machine Learning Intern* *4 months*
  - Developed a content-based video recommendation model that was subsequently integrated into production.
  - Deployed several ranking models into production, demonstrating positive impact through A/B testing.
  - Applied expertise in Machine Learning, Python, Java, SQL to advance company projects and initiatives.

## Education

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- Saint Petersburg State University** **Sep 2018 – Jul 2022**
  - Bachelor of Applied Mathematics and Computer Science* *4 years*
  - Relevant coursework:** Data Analysis, Data Processing, Object-Oriented Programming, Statistical Analysis, Discrete Modeling.

## Projects

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- Local Hack Day: Save the world – 1st place** **Apr 2020**
  - Forecasting the onset of epidemic waves* *Hackathon*
  - As part of a team, I set up infrastructure for testing out our web application, fetched data from several sources and performed preprocessing on it, as well as trained and tuned our LightGBM model.
  - Leveraged knowledge in Python, GNU/Linux, DevOps, MLOps.

## Achievements

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- Google Code-In 2016** **Jan 2017**
  - Grand Prize Winner* *Competition*
  - Awarded for contributions to open source products of the KDE ecosystem, including Plasma, Marble and KDevelop.
  - Leveraged knowledge in C++, Qt, GNU/Linux, Git.

## Skills

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- **Languages and Frameworks:** Python, Java, C++, R, SQL, Spring.
- **ML and Data Technologies:** Apache Spark (including MLlib), PyTorch, Docker, CatBoost, LightGBM, WandB.
- **Fluent in:** English, Russian.