**Lebiadzevich Artsem**

Current Position: Machine Learning Engineer

**Summary of Qualifications:**

Developer with 2 years of experience in building Machine Learning projects. I specialize in developing enterprise applications using recommendation systems (RecSys), classical machine learning (ML), reinforcement learning (RL), and computer vision (CV).

I have extensive experience in creating architecture, designing, developing and maintaining applications, worked with various frameworks. In working on projects, I write documentation, cover code with tests (TDD/BDD). I have worked with infrastructure deployment and configuration (server, OS, project environment, etc.).

I often coordinate and guide the development team on projects. I was always involved in every new question I was asked about, and my aim was to figure

out the comprehensive answer. That's how I started to learn computer science & programming

and after a while I realized that my future career would be in this field. Once the goal was

chosen, I started a huge dive into IT. And now I can be sure I'm on the right path, ready to take

on new challenges!

**Technical Skills:**

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| --- | --- |
| Languages | *Python* |
| Technologies/APIs/  Methodologies | *Primary: Scikit-learn, PyTorch, Keras, TensorFlow, XGBoost, CatBoost, Pandas, NumPy,* *Matplotlib, Plotly*  *Secondary: A/B testing, LightGBM, SciPy, REST, CI/CD, Google Cloud API, Docker*  *Additionally: SCRUM, Agile, Kanban* |
| Databases | *PostgreSQL, Microsoft SQL Server, MongoBD* |
| O/S | *Primary: Linux, Ubuntu*  *Secondary: Windows* |
| Tools, application  platforms and  other | *PyCharm, Jupyter Notebook, Google Colab, Anaconda, Microsoft Office, GitHub, GitLab, Bitbucket, Circle CI, GitHub Actions, Postman,* |
| Foreign languages | *English Written&Spoken – Intermediate,*  *Deutsch Written&Spoken – Elementary,*  *Belarusian, Russian – Native* |

**Involved / participated in projects:**

● **EPAM**

○ Period: June 2022 - August 2022

○ Industry: Information Technology and Services

○ Technologies: Python, SQL, Machine Learning algorithms, Data Visualization tools, Computer Science, Methodologies, Google Cloud API

○ Participation:

Completed a Data Science internship at EPAM, focused on developing skills through online courses and mentorship.

Accessed a dedicated resource with courses covering various Data Science topics.

Engaged in self-paced learning, completing assignments and projects.

Worked closely with a mentor for guidance, feedback, and additional learning resources.

Collaborated with other interns or colleagues for knowledge sharing and discussions.

Demonstrated a proactive attitude towards continuous learning and improvement in Data Science.

● **Stripe RecSys**

○ Period: August 2022 - May 2023

○ Industry: E-commerce, FinTech

○ Project Description: Developed an AI-powered recommendation system using cutting-edge machine learning algorithms to deliver personalized product recommendations to Stripe users. The system aimed to enhance the shopping experience and boost conversion rates.

○ Team: 2 Data scientists, 2 Full-stack developers, Project Manager

○ Technologies: Python, TensorFlow, PyTorch, scikit-learn, FastAPI, PostgreSQL, Docker, GitHub

○ Project role(s): Machine Learning Engineer

○ Participation/Responsibilities:

Led the development of the recommendation system, working closely with the data science team.

Utilized machine learning libraries such as TensorFlow, PyTorch, and scikit-learn to train and deploy recommendation models.

Collaborated with full-stack developers to integrate the recommendation system into the FastAPI web service.

Designed and implemented data extraction and processing pipelines from the Stripe API.

Developed and fine-tuned machine learning algorithms for generating accurate and personalized product recommendations.

Worked on the integration of the recommendation system with the PostgreSQL database for efficient data storage and retrieval.

Utilized Docker for containerization and deployment of the web service.

Ensured version control and collaboration through GitHub for seamless teamwork.

Participated in regular team meetings, providing updates on the progress and discussing challenges and solutions.

Assisted the Project Manager in project planning, resource allocation, and coordination among team members.

● **Qualitet Systems**

○ Period: May 2023 - Present

○ Industry: Oil and gas industry

○ Project Description: Development of machine learning models for the Virtual Flow Meter project in the oil and gas industry.

○ Team: 3 Machine Learning Engineer

○ Technologies: Scikit-Learn, TensorFlow, Keras, PyTorch, Pandas, NumPy, SciPy, Matplotlib, Python, R, C++, C#, Psycopg2, PostgreSQL, Flask, Google Cloud API, Git, Linux, Docker, Tkinter, Unittest

○ Project role(s): Machine Learning Engineer

○ Participation/Responsibilities:

Application of machine learning algorithms and libraries to predict the component composition of the fluid flowing in the pipes at the well (prediction calculations due to obtaining a large amount of data from physical sensors, implementation of a fluid tomograph).Utilizing data science tools like Pandas, NumPy, SciPy, and Matplotlib for data analysis, visualization, and pre-processing.

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Managing data storage and retrieval using database management systems such as PostgreSQL, ensuring efficient and secure data handling.

Developing backend web applications using Flask to improve system response times and enhance user experience.

Creating interactive visualizations with Plotly to effectively communicate complex data to stakeholders, facilitating better decision-making processes.

Designing and implementing graphical user interfaces using Tkinter to enhance user interaction with the industrial automation systems.

Utilizing XML and JSON for data exchange, enabling seamless communication between different software components of the systems.

Managing cloud services using the Google Cloud API to ensure high availability and reliability of the applications.

Implementing unit tests using the Unittest library to ensure the quality and reliability of the developed software products.

**Education:**

Belarusian State University: 2021-2025

*Bachelor's Degree, Faculty of Applied Mathematics and Computer Science*

**Additional info:**

*Project: Reinforcement Learning-Powered Bitcoin Trading Bot (coursework)*

Description: Develop a trading bot for Bitcoin that utilizes reinforcement learning techniques to make autonomous trading decisions based on market conditions and maximize profits.

* Design and implement a reinforcement learning algorithm for training the trading bot.
* Create a model to represent the state of the Bitcoin market, including price, trading volume, and other relevant factors.
* Develop a real-time trading bot capable of making buying and selling decisions based on the trained model.

*Accomplishments:*

* 2023 Yandex Algorithms and Data Structures Training
* 2023 Yandex Machine Learning Training
* 2023 Course about Docker - Rotoro Cloud (Stepik)
* 2023 Deep Learning School - Moscow Institute of Physics and Technology, Data Science | Machine Learning
* 2023 Data Science – Netology
* 2023 Data Analytics - VK Education
* 2023 Data Analytics - Tinkoff Education
* 2022 Probability Theory and Mathematical Statistics - Computer Science Centre (Stepik)
* 2022 Algorithm and Data Structure - Belarusian State University
* 2022 Internship Data Engineer - EPAM Systems
* 2021 Python Course - Higher School of Economics (Coursera)
* Machine Learning, Computer Science books
* Learning Python, Mark Lutz
* Clean code, Robert Martin
* Code complete, Steve McConnell
* Grokking Deep Learning, Andrew Trask
* Probabilistic Machine Learning, Kevin Murphy
* PET-projects on Github
* Success in solving algorithmic problems in Maths and Computer Science Olympiads
* BSU English Speaking club, Chief Organizer
* Deutsch courses

*Soft skills:*

● Developed analytical thinking: I can quickly break down large problems into small ones, collect reliable information and evaluate it correctly, easily notice interrelationship between events, and can find appropriate solutions to problems and alternatives.

● Active and strategic approach to learning

● Comprehensive approach to problem-solving as well as the ability to manage complex problems, as well as the ability to deal with unexpected situations

● Leadership – not afraid to take responsibility for decisions. I can unite people into a team, distribute tasks, train new team members, etc.

● I can admit my mistakes

*Hobbies:*

● Active sports

● Guitar playing, classical music

● Curious about world and national history

● Foreign languages