

MY CONTACTS

belyaevalex2007@gmail.com

Białystok

EDUCATION

School N61 Minsk

2013-2023

Average score 8.8/10

Technikum INFOTECH

2023-Now

Average score 5.84/6

COURSES

RS school course Machine learning

2022 - 2022 Place 30/1500

DeepLearning.AI TensorFlow Developer

2022 - 2022 4 courses

Machine Learning by Stanford University

2021 - 2021

Docker by Udemy

2023 - 2023

Neural Networks and Deep Learning

2025 - 2025

LANGUAGES

Polish **B2**

B1+ English

Belarusian **Native**

> Russian **Native**

A1+ Spanish

Belyaev Alexander

Python developer / Data Scientist / Al developer

ABOUT

29.05.2007 18 years

7 years programming in Python

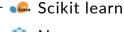
Python developer and AI/ML engineer with 7+ years of programming experience and a strong grounding in mathematics and logic. Laureate of national and international Olympiads, with proven analytical and problem-solving skills. Completed advanced ML training (incl. Stanford's Machine Learning) and placed in the top 2% of the EPAM program. Focused on building reliable, production- ready AI systems and continuously improving model quality and developer productivity.

SKILLS

EXPERIENCE

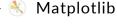
🤔 Python

















And More



Docker



SQL



FastApi



Git



Github



Html



Css



JavaScript (basic)



🗽🔗 LangChain



Chroma



C / C++ (basic)



Rust (basic)



Arduino



Espressif



Github Actions

Voise grammar checker

Telegram bot analyzes your voice messages through various APIs, detects pronunciation errors and sends them back in written form. This platform based on SAAS, I created it to test the algorithm for my startup's idea

Mesh Communication System — Embedded/IoT Engineer

Contributed to a device-to-device mesh communication system for consumer smart-home hardware (Raycon). Implemented the mesh layer with root/child topology, broadcast/unicast routing, and MAC addressing utilities. Designed a closed-by-default security model with short, time-boxed pairing windows: users explicitly enable pairing mode to enroll a new node into a local whitelist. Defined an extensible JSON messaging contract for inter-device communication and helper addressing/serialization. Focused on runtime reliability and responsiveness by arranging task placement and startup sequencing (core affinity, priorities, bounded delays), with clear state handling and timers throughout the pairing lifecycle. Tech: ESP-IDF (FreeRTOS), esp_mesh_lite, C, Wi-Fi (AP/STA), cJSON, NVS

Shelf-Aware Counting System

Built a shelf-aware counting system using two YOLO models: a lightweight people-tracker triggered the workflow on room entry-exit, then the main detector counted boxes/packs and mapped them to specific rack sections for precise pershelf totals. Maintained structured logs with timestamps and per-shelf diffs, and saved images with drawn bounding boxes for auditability. Aggregated datasets from multiple sources and normalized them to a single training format. Tech stack: Python, YOLO, OpenCV, NumPy, Pandas, asyncio, structured logging

Internal currency for technical schools

I am a project leader with a team of 10 people. Currency motivates the students. I lead the project, integrate modules and write code myself in my spare time. The site allows transfers between students and teachers, includes an order store, interactive and QR-search for users, and an admin panel for the technical school

WORK EXPERIENCE



Freelance

Sep 2023 - Jan 2023

Built chatbots for different messengers and to automate conversations and internal workflows. Integrated external AI services via API; handled request/response logic, validation, and admin commands.



Python dev. / Al developer

Nov 2024 - Present

Developed an AI training module and handled prompt engineering. Built an assistant improvement and finetuning system tailored individually for each client and each specific scenario.



ML Engeneer

Jan 2024 - June 2024

Implemented and debugged real-time computer-vision algorithms for object/motion detection. Develop Shelf-Aware Counting System project. Delivered working prototypes, unit tests, and concise technical notes.

Assistant with knowledge base

It's a site for communicating with an assistant that has a local knowledge base: using various methods, it searches for relevant text passages and, using the selected model, generates a response. When choosing Llama, everything works locally, without an Internet connection. Also it works as SAAS

Al-powered Educational Testing Platform

Platform built on a RAG architecture with semantic search that cuts test creation time by ~60×. It combines ChromaDB (HNSW) with OpenAl GPT-4/o3 and text-embedding-3-large, custom semantic chunking, Multi-Query Expansion, and HyDE for high-quality retrieval. The Django/Python backend ingests PDF/DOCX/PPTX via async pipelines (LangChain, Sentence Transformers, PyPDF) and maintains per-user isolated vector collections with hierarchical parent-child indexing, delivering sub-100 ms queries across millions of vectors

SMM bot

The bot streamlines social media work, generates ideas for posts and videos in all formats, helps devise a strategy, creates schedules, and reminds you about them

VOLONTEERING

European Solidarity Corps - Terzo Millennio

Jun 2025 - Aug 2025

Supported the planning and delivery of daily educational and recreational activities in an inclusive, intercultural setting; assisted logistics and coordination with the host organisation. Worked directly with Italian children aged 6–11 who did not speak English, adapting activities through visuals, demonstrations, basic Italian phrases, and non-verbal communication to ensure safety, participation, and engagement. Facilitated small-group tasks, prepared short instructions/recaps, and kept simple activity records (attendance, materials). Built teamwork, time management, and public-speaking skills in a multilingual environment (EN/PL/RU; basic IT).

Space for future volonteering:)

HARD SKILLS

Python, Django, FastAPI, Asyncio, REST APIs, JSON, Aiogram; Machine Learning, Deep Learning, NLP, Retrieval, RAG, Vector Search, Embeddings, Multi-Query Expansion (MQE), HyDE, ChromaDB (HNSW), LangChain, OpenAl API, Sentence Transformers, Model Evaluation, A/B testing; Pandas, NumPy, scikit-learn, TensorFlow, Matplotlib; SQL, PostgreSQL, ORM; Docker, Git, GitHub Actions, CI/CD; ESP-IDF, FreeRTOS, C, esp_mesh_lite, Wi-Fi (AP/STA), NVS, cJSON, core affinity, task scheduling, timers; Profiling, logging, monitoring

SOFT SKILLS

Analytical thinking, Complex problem solving, Ownership, Reliability, Stakeholder communication, Time management, Prioritization, Early-stage leadership, Mentoring & code review, Documentation, Attention to detail, Systems thinking, Adaptability & fast learning.

INTERESTS

Hardware prototyping & electronics (soldering, PCB), Edge-AI & embedded systems, IoT/mesh networking, Applied mathematics, Bioengineering & computational biology, Automotive systems, Quantitative finance/fintech, Strength training, Volunteering & community projects, Language learning, DIY.

LINKS



