

# Adil Arshidinov, Python Developer, CV/ML Engineer

📍 Russia, Belgorod

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## Experience (3 years 7 months)

### Healthcare Ministry, Department of Digital Innovation and Information Technology

Python Developer *September 2021 — January 2024 (2 years 5 months)*

Worked in a team of 5 specialists (excluding me): CTO, Backend developer, DevOps/System Engineer, System Administrator, QA. As a Team Lead, I interacted with 4 teams: my own, VEBMIS system technical support, developers from [Botkin AI](#) and [IRA-Labs](#).

The Innovation Department was engaged in software development for the needs of the regional and national Ministry of Health system; integration, support and monitoring in the region; implementation of AI technologies.

- Created telegram bots for most state hospitals and clinics in the region, reducing the load on the information center and hotline by 15%.
- Automated the collection and execution of requests for VEBMIS system technical support, increasing the productivity of technical support engineers by 50%.
- Led the creation of a pipeline for sending data from medical equipment via API to the Ministry of Health servers (for storage) and to the Botkin AI/IRA-Labs services for inference, receiving callbacks from both.
- Led the creation of an internal-use service for monitoring and configuring IoMT.
- As a result of the implementation of AI services, 83% of visits to obtain results from doctors using smart equipment were eliminated, which increased their productivity by 21%.

Stack: Python, JavaScript, HTML, CSS, Bash, SQL, ORM, SQLAlchemy, SQLite, PostgreSQL, FastAPI, Celery, Redis, Nginx, Docker, Docker-compose, Postman, Git, asyncio, aiohttp, REST, API.

### X-Faces

Python Developer *February 2024 — Present Time (1 year 2 month)*

Worked in a team of 8 people (excluding me): Project Manager, Team Lead, Backend developer, 2 Frontend developers, 2 QA, analyst. A total of 4 teams worked on the product.

Created a user recognition system based on documents, selfies and liveness for partners from Romania + widgets for partner resources.

- Led the development of a weather widget. It is in the top 10 in Romania for queries in specific cities (**Appendix 1**).
- Optimized work with the database through indexing and JOIN queries, accelerating queries from an average of 102ms to 40ms (+ 39%) (**Appendix 2**).
- Implemented a user tracker and multi-account detection with subsequent notification of partners, which allowed us to identify fraudsters and save an average of 4735\$ per month.
- Introduced the use of DVC for working with datasets for CV models, which allowed avoiding the costs of storing datasets on the server and potential performance degradation.
- Implemented user recognition by bank cards, which potentially increased partners' MRR by \$34,387.
- Completely reworked the datasets for training the CV model: corrected errors/typos, brought them to a single format. Wrote validator scripts and formatters for this. Result: increased accuracy of the CV model by 3.2% (**Appendix 3**).
- Implemented Luhn's algorithm for validating the CNP number of ID documents (Romania, European Union) and bank cards (VISA, MASTERCARD, DISCOVER, REVOLUT, GEORGE).

Stack: Python, JavaScript, SQL, Bash, Supabase ORM, Supabase, Flask, Celery, RabbitMQ, Postman, Git, REST, API.

## Summary

I am constantly improving, applying best practices, writing documentation, and doing deployment.

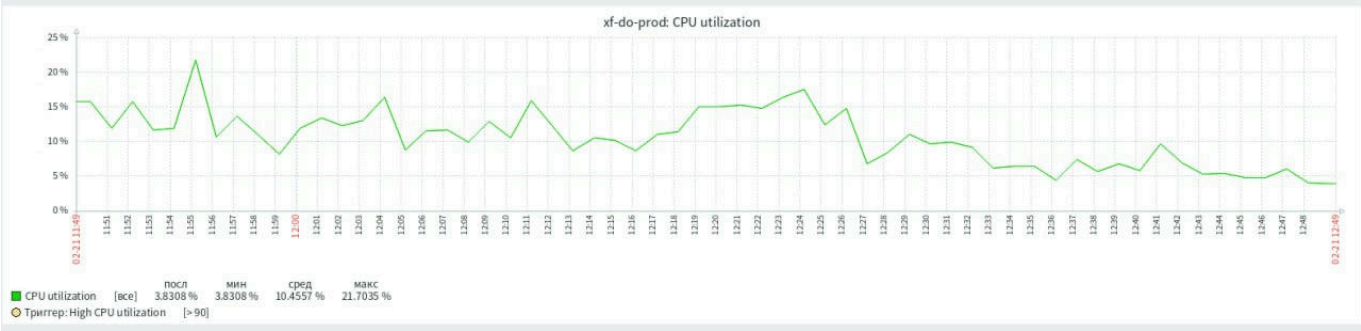
**Languages (CEFR):**  
Russian (C2), English (C2), Deutsch (A2), Spanish (A1).

**Stack**  
Python, SQL, HTML, CSS, JavaScript, Bootstrap, Node.js, bash, Supabase, Selenium, FastAPI, Flask, Nginx, Celery, Redis, RabbitMQ, Docker, Git, DVC, Sentry.  
fastai, sklearn.

**Appendix**

ЗАПРОСЫ	СТРАНИЦЫ	СТРАНЫ	УСТРОЙСТВА	ВИД В ПОИСКЕ
популярные страницы				
			Клики	Показы
			Позиция	
tps://meteo-vremea.ro/cities			0	495,8
tps://meteo-vremea.ro/radauti			0	27,5
tps://meteo-vremea.ro/balesti			0	18,0
tps://meteo-vremea.ro/botosani			0	19,0
tps://meteo-vremea.ro/ernavoda			0	19,0
tps://meteo-vremea.ro/dragã/10-day			0	19,0
tps://meteo-vremea.ro/ernavoda/10-day			0	11,0
tps://meteo-vremea.ro/baile herculane			0	129,0
tps://meteo-vremea.ro/curtea de arges/10-day			0	135,0
tps://meteo-vremea.ro/roman			0	157,0

№1

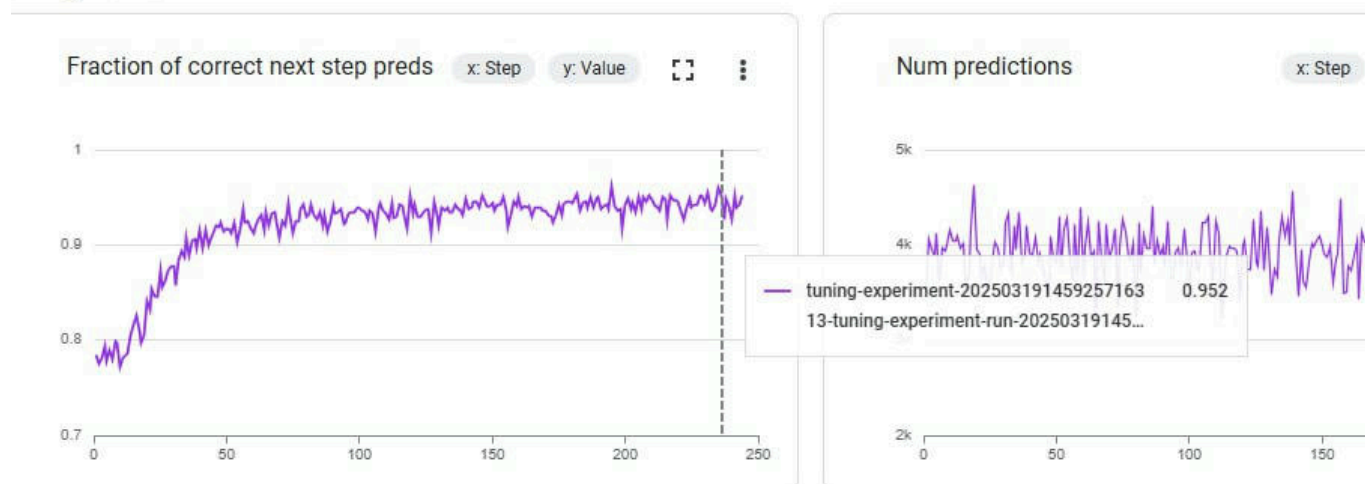


№2

## Tuning progress

Succeeded

## Training metrics

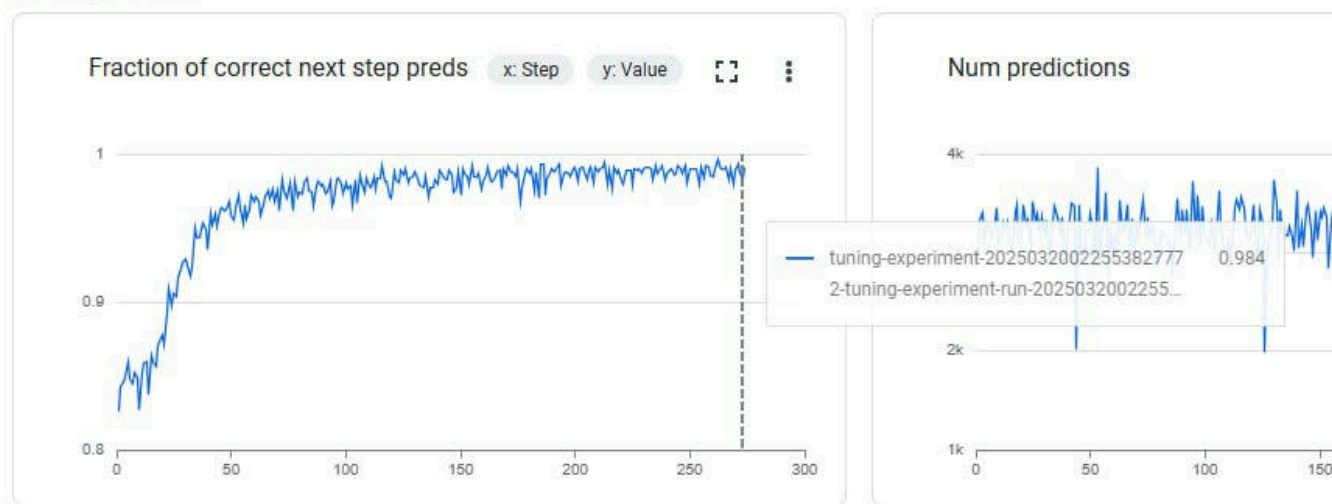


Nº3 CV model accuracy before: 95.2%

## Tuning progress

59% completed

## Training metrics



Nº4 CV model accuracy after: 98.4%