Adil Arshidinov, Python Developer, CV/ML Engineer

 Russia, Belgorod   mortonmarrion@gmail.com   +79950168607   @The_One_Reborn

 The-One-Reborn-developer

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)**.

• Negotiated with partners from Romania and France on the specifics of the product being created.

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.
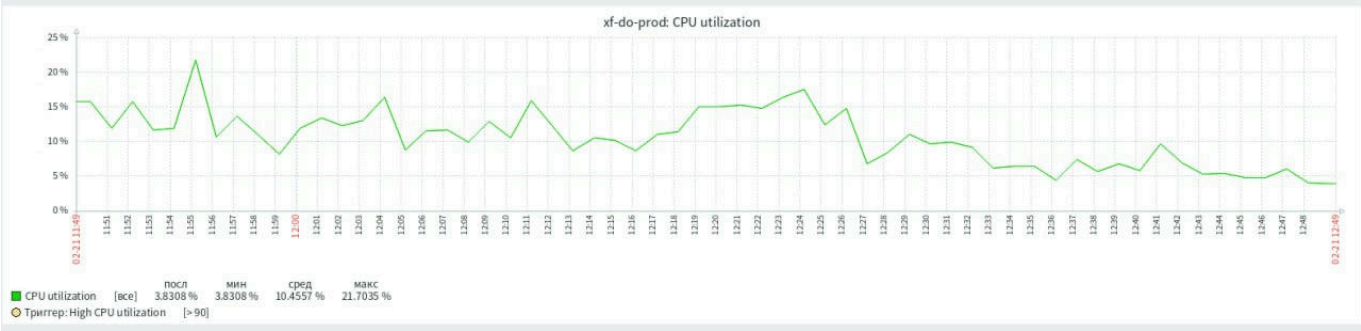
Languges (CEFR):

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.

fastai, sklearn.

Appendix

	ЗАПРОСЫ	СТРАНИЦЫ	СТРАНЫ	УСТРОЙСТВА	ВИД В ПОИСКЕ

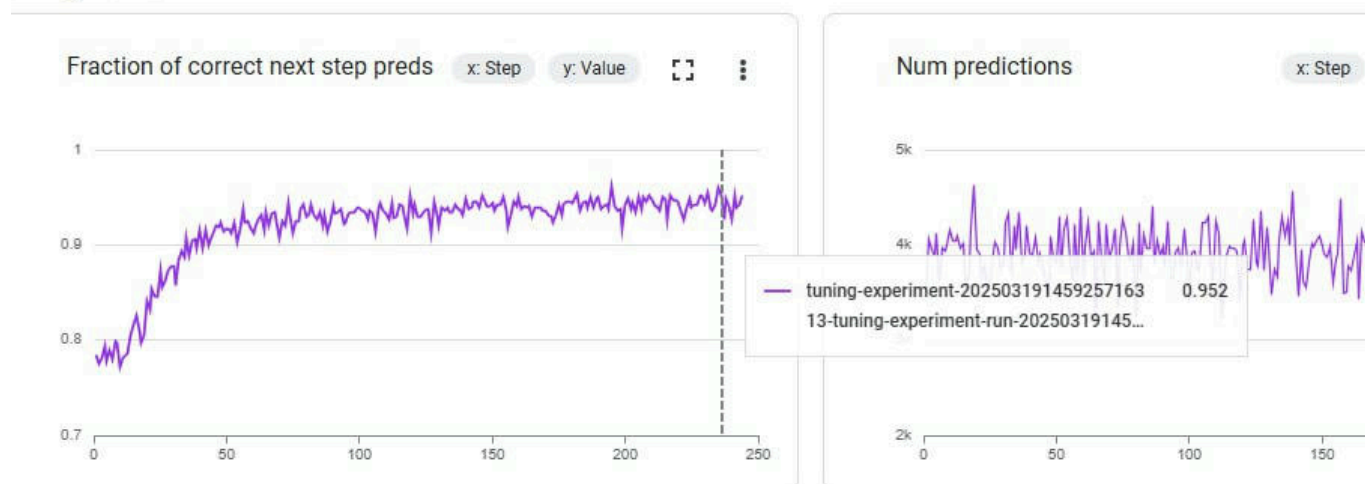| опулярные страницы	↓ Клики	Показы	Позиция
tps://meteo-vremea.ro/cities	0	4	95,8
tps://meteo-vremea.ro/radauti	0	2	7,5
tps://meteo-vremea.ro/bailesti	0	1	8,0
tps://meteo-vremea.ro/botosani	0	1	9,0
tps://meteo-vremea.ro/cernavoda	0	1	9,0
tps://meteo-vremea.ro/dragă/10-day	0	1	9,0
tps://meteo-vremea.ro/cernavoda/10-day	0	1	11,0
tps://meteo-vremea.ro/baile herculane	0	1	29,0
tps://meteo-vremea.ro/curtea de arges/10-day	0	1	35,0
tps://meteo-vremea.ro/roman	0	1	57,0

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№1

№2

Training metrics

Fraction of correct next step preds   x: Step   y: Value   []   ⋮

1

0.9

0.8

0.7

0   50   100   150   200   250

tuning-experiment-202503191459257163
13-tuning-experiment-run-20250319145...   0.952

Num predictions   x: Step

5k

4k

2k

0   50   100   150

№3 CV model accuracy before: 95.2%

Tuning progress

59% completed

Training metrics

Fraction of correct next step preds   x: Step   y: Value   []   ⋮

1

0.9

0.8

0   50   100   150   200   250   300

tuning-experiment-20250320022553827772-tuning-experiment-run-2025032002255...   0.984

Num predictions

4k

2k

1k

0   50   100   150
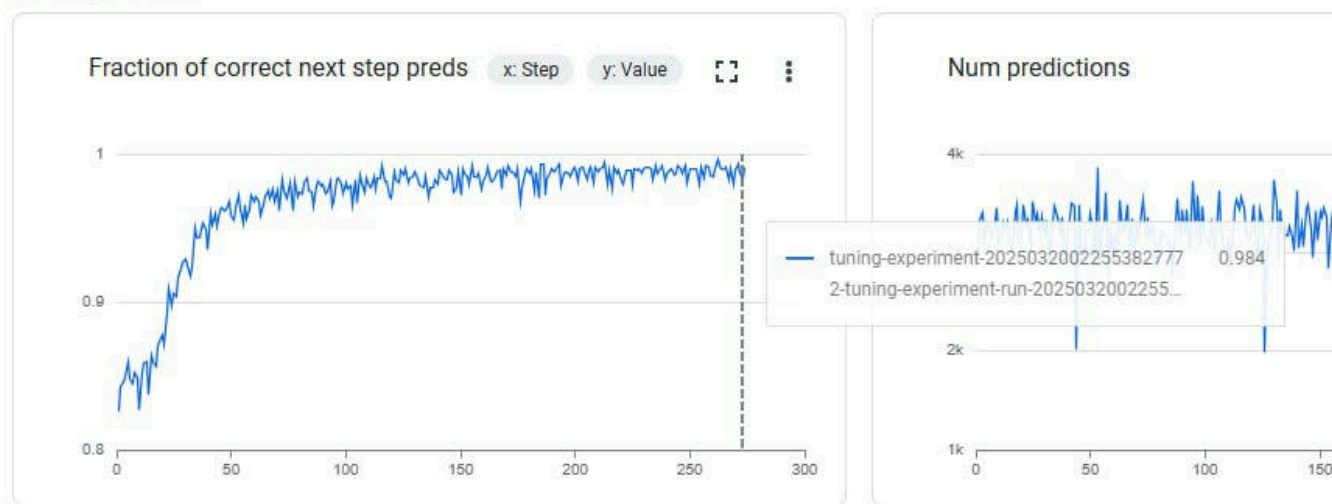
№4 CV model accuracy after: 98.4%