DANIIL VOLGIN

danwallgun@yandex.ru ♦ ② t.me/danwallgun ♦ ♀ Moscow, Russia linkedin.com/in/danwallgun ♦ ♀ github.com/DanWallgun

EXPERIENCE

Machine Learning Engineer, Speech Recognition

Yandex, Virtual Assistant & Smart Speakers, alice.yandex.ru

Aug 2022 - Present Moscow, Russia

- Iteratively improved recognition quality by significant percentages by conducting extensive research/experiments
- Improved recognition quality by implementing personalized speech recognition to integrate music listening data
- Maintained a low level of user bug reports regarding incorrect recognition
 - Iteratively fine-tuned models using crowdsourced data
 - Implemented technique for efficient fine-tuning on new domains
 - Established a duty system within the team for analyzing bug reports
 - Developed a monitoring system to evaluate the performance of new models regarding reported issues
- Led transition to new training framework by implementing initial version, assigning tasks to team, code reviewing
- Consolidated models for several device domains into one without compromising quality simplifying release cycles
- Accelerated model training by 15% by profiling our training framework, identifying bottlenecks
- Conducted classes on speech recognition as a part of the speech source at the Yandex School of Data Analysis
- Supervised new team members
- Attended Interspeech 2023 conference to stay updated on industry trends and advancements

Software Engineer, Web-Backend

Yandex, home services platform

Feb 2021 - Feb 2022

Moscow. Russia

- Implemented backend for website's content administration and deployment
- Implemented part of the backend for order processing

EDUCATION

Bachelor of Computer Science, Higher School of Economics

2019 - 2023

- Applied Mathematics and Informatics
- Machine Learning and Applications

AWARDS

Codeforces.	lan	k
Coucidi ccs,		ΓZ

ICPC semi-finals (Northern Eurasia), 103th place out of 276	2023
ICPC quarterfinal (Moscow Regional), Third Award	2020
Google Code Jam Round 2, Participant	2020

SKILLS

Languages C++, Python, Go

Data Science numpy, sklearn, PyTorch

Technologies Algorithms, SQL, Git, Unix, Docker, Android

Markup Latex

LANGUAGES

Russian Native

English Upper-Intermediate

DETAILED ML ENGINEER EXPERIENCE

Machine Learning Engineer

Yandex, Virtual Assistant & Smart Speakers, alice.yandex.ru

Aug 2022 - Present Moscow, Russia

- Iteratively improved speech recognition quality
 - Curated in-house dissatisfaction analysis to determine improvement directions
 - Conducted extensive research and experiments on model training
 - Achieved up to tens of percent improvements in some target domains
- Implemented contextualized speech recognition
 - Personalized speech recognition by integrating user music listening data
 - Implemented rapid fixes system for a small set of selected phrases, enhancing their recognition accuracy
- Responsible for maintaining a low level of user bug reports on incorrect recognition
 - Iteratively fine-tuned models using crowdsourced data
 - Implemented efficient fine-tuning technique that allows adapting new domains without compromising quality on main one
 - Established a duty system within the team for analyzing bug reports
 - Developed a monitoring system to evaluate the performance of new models in addressing reported issues
- Responsible for the training framework upgrade
 - Implementing the initial version of the new framework
 - Led the transition by coordinating subtasks assignments
 - Reviewed code of implementations of assigned subtasks
- Consolidated recognition models for several device domains into one
 - Trained one model for various domains without compromising quality on all of them
 - Simplified improvement and release cycles in these domains
- Accelerated speech recognition model by 15%
 - Implemented speed benchmark
 - Conducted profiling of our training framework and determined bottleneck
- Conducted classes on speech recognition as part of the speech source at the Yandex School of Data Analysis
- Supervised new team members
- Attended Interspeech 2023 conference to stay updated on industry trends and advancements