# Konstantin Chernyshev

April 06, 1999
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## Summary

- Passionate data scientist with the competence to solve real-life problems;
- Strong experience with ML, CV and NLP frameworks;
- Solid knowledge of system architecture, algorithms, data structures, DevOps and CI/CD;
- Experience in leading projects up to 4 developers and communication with clients;
- Tactful team player, thrive within a group environment. Pleasant personality;

## Qualifications

**PROGRAMMING LANGUAGES**

- Advanced experience with Python, C++ STL, SQL
- Experience of usage GoLang, CUDA, shell/bash, JavaScript, Java, C++ TBB, C, Assembler

**DATA SCIENCE SKILLS**

- Expertise in machine learning: classical ML, CV, NLP, Speech generation, Graph models
- Wide experience with main flameworks: PyTorch, albumentations, huggingface, Pytorch-Lightning, neptune.ai, sklearn, pandas
- Experience with xgboost, catboost, PyTorch geometric, Tensorflow, Keras, networkx

**DEVELOPMENT AND INFERENCE**

- Confident knowledge of git, docker/docker-compose, fastapi, postgres, gitlab-ci, github-actions, celery, sqlalchemy
- Experience with flask, redis, rabbitmq, timescaledb, postgis, triton, onnx/tensorrt

**OTHER**

- Experience with Unix-system, JetBrains IDE, Latex, markdown, html/css

**LANGUAGES**

- Russian (native)
- English: Advanced (C1); IELTS certificate 7.5
  Confident reading of technical docs and scientific papers
- German: beginner

# Experience

**apr 2021 - present**

### Research-Engineer, Project Manager
Artificial Intelligence Development Center "Gorky" (gorky.ai)
- Led projects of 2-4 developers, communicated with clients
- Improved teamwork (effective task manager and code review pipeline)
- Adopted Voice Conversion model for the Russian language, close to real speech

**jun 2021 - present**

### Python Course Manager, Lecturer
Yandex School of Data Analysis (yandexdataschool.com)
- Managed a team of lecturers of 9 people
- General planning of the course, scheduled topics, the reviewed of all lectures held
- Conducted lectures on specific topics: Packages and Modules, C-bindings
- Significantly improved assignments checking (e.g 6 times acceleration)

**jan 2021 - jun 2021**

### Python Course Assistant, Lecturer
Yandex School of Data Analysis (yandexdataschool.com)
- Helped with conducting, developed assignments, and improved checking system

**apr 2020 - apr 2021**

### Research-Engineer
Development strategy of the Nizhny Novgorod Region
(strategy.government-nnov.ru)
- Developed month accurate covid-19 prediction model, rough for several months
- Optimized development process. Significantly accelerated a new project launch.
- Developed a highly loaded "roads quality" model bases on smartphones data
- Architectural management of scanned documents analysis project.
  Developed a high accuracy model for finding tables, signatures and stamps.

**sep 2020 - jan 2021**

### Algorithms Course Assistant, Lecturer
Higher School of Economics, Nizhny Novgorod
- Conducted seminars on Algorithms and Data Structures course.
- Redesigned the course format. Added automatic assignments checking system

**apr 2019 - jan 2021**

### Research-Intern
Laboratory of Algorithms and Technologies for Networks Analysis
(nnov.hse.ru/en/latna)
- Solving "Compressed sensing" problem with l1 norm and l0 norm approximation.
  Developed near-SOTA recovery algorithm, converges faster than similar ones
- Developed abstractive summarization model using knowledge graphs
- Helped with the organization of the conferences of the LATNA.

**2019**

### Developer (website for edu summer camp)
Higher School of Economics (Pre-University Dep.), Nizhny Novgorod
- Designed architecture, project management and main development.
- Dockerized and configured for auto-deploy on a server (+CI, CD)

# Education

**2021 - (2023)**

### Master of Science
Higher School of Economics, Nizhny Novgorod
· Data Science

**2017 - 2021**

### Bachelor of Science with honours
Higher School of Economics, Nizhny Novgorod
· Applied Mathematics and Computer Science
· GPA: 9.1/10;  Rating: 8/100 (faculty) 1/27 (program)
· Thesis: *Incorporating Knowledge Graphs into Abstractive Document Summarization*

**2019 - 2021**

### Graduate student (Data Science)
Yandex School of Data Analysis (yandexdataschool.com)
· Master's degree-like 2-year educational diploma program
· Completed courses: Algorithms and data structures, Linear algebra, Probability Theory, Discrete analysis, Python, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Golang, Reinforcement Learning and CUDA

**2021**

### Completed courses
Nvidia Courses (courses.nvidia.com)
· Deep Learning Optimization and Deployment using TensorFlow and TensorRT
· AI Workflows for Intelligent Video Analytics with DeepStream using TF and TRT
· Fundamentals of Accelerated Computing with CUDA Python

**2018, 2019**

### Participant and Awardee
Intel Delta Courses (delta-course.org)
· Participated in educational intel courses Intel Delta 9, Intel Delta 11.
· Took first place in the Image Recognition final competition Delta 9 (kaggle.com/c/delta9/leaderboard)