



Murat APISHEV

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[github](#) | [My page \(in russian\)](#)

## SUMMARY

I am an expert in data science, machine learning, natural language processing and software development. My skills include data analysis, training ML and DL models, designing and writing efficient code, team leading. Also I teach a lot and like to be a public speaker.

## EDUCATION

**MOSCOW STATE UNIVERSITY (CMC) / FRC IM OF THE RUSSIAN ACADEMY OF SCIENCES** 2017-2020

PH.D IN COMPUTER SCIENCE

•Effective Implementation of Topic Modeling Algorithms with Additive Regularization

**MOSCOW STATE UNIVERSITY (CMC)** 2015-2017

MASTER OF APPLIED MATHEMATICS AND COMPUTER SCIENCE

**MOSCOW STATE UNIVERSITY (CMC)** 2011-2015

BACHELOR OF APPLIED MATHEMATICS AND COMPUTER SCIENCE

## WORK EXPERIENCE AND PROJECTS

**TALKMART42** April 2020 - Now

DATA SCIENTIST (CO-FOUNDER)

- Prototype of voice control system for self-service checkout for retail company (*Python / NLP*)
- English neural QA-system for specific domain for advertising agency (*Python / NLP*)
- Advertisements classification system for advertising and media research company (*Python / NLP*)
- Voice games for Yandex Alice and Sber Salut (*Python*)
- Voice and visual business apps in Sber Salut (*Typescript / Python*)

**JUST AI** October 2021 - Now

NLP R&D TEAM LEADER

- NLP core of cloud text processing engine for internal products and external marketplace (*Team leading / Project management / NLP / Python*)

**ALFA BANK** August 2021 - October 2021

DATA SCIENTIST (LEAD)

- ML and DL models for chat-bot intent detection (*Python / NLP*)
- Project management of several NLP tasks with reporting to senior officials (*Team leading / Project management*)

**DIGITAL DECISIONS (AITHEA)** April 2019 - April 2020

NLP TEAM LEADER / DATA SCIENTIST (SENIOR)

- Spell checker for government organization (*C++ / Python / NLP*)
- English NER in application onboarding for B2C startup (*Project management*)
- Search and recommender system for English scientific articles (*Project management / Team leading*)
- Trend detection in Twitter and YouTube data for Instinct BBDO (*Python / NLP / Team leading*)
- Collecting NLP-data for Huawei voice assistant (*Python / NLP / Team leading*)
- Tickets ordering chatbot for B2C company (*NLP / Team leading / Project management*)

**YANDEX ZEN** September 2017 - April 2019

ML-ENGINEER (MIDDLE)

- System for evergreen content detection within Zen recsys (*Java / Python / SQL / ML*)
- System for one-day/yellow/black content classification within Zen recsys (*Java / Python / NLP*)
- Zen recsys channel catalog ranking system (*Java / SQL*)
- Zen recsys fresh content usage strategies algorithms (*Java / SQL*)

**YANDEX SEARCH** April 2016 - September 2017

SOFTWARE ENGINEER (JUNIOR)

- Yandex Search antirobot development (*C++*)

**COMPUTING CENTRE OF RUSSIAN ACADEMY OF SCIENCES**

July 2014 - April 2016

SOFTWARE ENGINEER

- BigARTM - open-source library for topic modeling (C++ / Python / NLP)
- Ethnic content exploration in social networks data (Python / NLP)

**COMPUTING CENTRE OF RUSSIAN ACADEMY OF SCIENCES**

July 2014 - April 2016

SOFTWARE ENGINEER

- BigARTM - open-source library for topic modeling (C++ / Python / NLP)
- Ethnic content exploration in social networks data (Python / NLP)
- Clustering and sentiment analysis of bank employees reviews (Python / NLP)

**FREELANCE**

DATA SCIENTIST

- Clustering and sentiment analysis of bank employees reviews (Python / NLP)
- Retail data analysis and parsing for scientific nutritional project (Python / NLP)

**MAIN TEACHING EXPERIENCE**

**MOSCOW INSTITUTE OF PHYSICS AND TECHNOLOGY**

2019-2021

LECTURER OF PYTHON COURSE

**HIGHER SCHOOL OF ECONOMICS**

2020

LECTURER OF NLP ONLINE COURSE

**MOSCOW INSTITUTE OF PHYSICS AND TECHNOLOGY / MOSCOW STATE UNIVERSITY**

2017-2020

LECTURER OF NLP COURSE (EARLIER - ASSISTANT)

**YANDEX SCHOOL OF DATA ANALYSIS**

2016-2019

ASSISTANT IN ML COURSE

**HIGHER SCHOOL OF ECONOMICS**

2017-2018

ASSISTANT IN NLP COURSE

**SKILLS, MODELS, APPROACHES**

<b>PROGRAMMING LANGUAGES</b>	<b>Experienced:</b> Python 2/3   C++11 <b>Familiar:</b> Java   JavaScript   SQL
<b>SOFTWARE DEVELOPMENT</b>	Algs and Data Structures   OOP Patterns   Multi-Threaded Programming   MapReduce
<b>GENERAL ML AND DS</b>	Log/Linear Regression   kNN   RF   GB   PCA   t-SNE   K-means   GMM   DBSCAN   SMOTE   Time-Series Exp. Smoothing   ARIMA   A/B Tests   Stat. Hypothesis Testing
<b>NON-DEEP NLP</b>	Text Preprocessing   Regexes   TF-IDF   Word2vec   GloVe   FastText   LDA   ARTM
<b>DEEP NLP</b>	FFNN   CNN   GAN   RNN (BiLSTM)   Seq-to-seq (Attention)   Transformer   BERT   RoBERTa   ALBERT   ERNIE   DistilBERT   XLM   GPT-2   XLNet   T5   BART
<b>TECHNICAL SKILLS</b>	Linux Terminal (Ubuntu)   VC (Git, SVN)   Unit Testing   CI   LaTeX
<b>SOFT/MANAGEMENT SKILLS</b>	Teaching   Agile (Scrum, Kanban)   Waterfall   Fluent Speech (Russian)
<b>LANGUAGES</b>	Russian (Native)   English (Intermediate)

**TOOLS, LIBRARIES, FRAMEWORKS**

<b>SOFTWARE DEVELOPMENT</b>	<b>Experienced:</b> STL   Pyenv & Venv   Pipenv   Docker   Redis   Flask   Google Protobuf <b>Familiar:</b> Hadoop   PySpark   MPI   CUDA   Cython   Numba   Android SDK (Java)   QT   React   GDB   CMake   MongoDB   Travis CI   AWS
<b>GENERAL ML</b>	NumPy   Pandas   Sklearn   Matplotlib   SciPy   XGBoost   CatBoost   Vowpal Wabbit   Statsmodels   Faiss   ScaNN   Jupyter Notebook   Colab   Yandex Toloka   Doccano
<b>NON-DEEP NLP</b>	Re   Pymorphy2/Pymystem3   NLTK   SpaCy   FastText   Gensim   BigARTM   UDPipe
<b>DEEP NLP</b>	PyTorch   Huggingface   Sentence Transformers   Haystack   DrQA   EasyNMT
<b>VOICE ASSISTANTS, ASR/TTS</b>	Yandex SpeechKit   Vosk (Kaldi)   Yandex Dialogs   Google Actions   RHVoice
<b>MANAGEMENT/OTHERS</b>	Yandex Tracker   Emacs   MS Office   Google Docs   Overleaf   Beamer

## MAIN PUBLIC ACTIVITIES

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- Alice Urban Skills Hackathon, 2021 (with team, 3rd place)
- VirusHack Hackathon, 2020 (with team, 1st place)
- DataStart Conference, 2020 (two paired speeches, Instinct BBDO and Huawei)
- OpenTalks.AI Conference, 2020 (paired speech, Huawei)

## MAIN SCIENTIFIC PAPERS

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- Artemova E., **Apishev M.**, Sarkisyan V., Aksenov S., Kirjanov D., Serikov O. Teaching a Massive Open Online Course on Natural Language Processing. NAACL Workshop, 2021
- **Apishev M.**, Koltcov S., Koltsova O., Nikolenko S., Vorontsov K. Additive Regularization for Topic Modeling in Sociological Studies of User-Generated Texts. MICAI, 2016
- Frei O., **Apishev M.** Parallel Non-blocking Deterministic Algorithm for Online Topic Modeling. AIST, 2016
- Vorontsov K., Frei O., **Apishev M.**, Romov P., Suvorova M., Yanina A. Non-Bayesian Additive Regularization for Multimodal Topic Modeling of Large Collections. CIKM Workshop, 2015