

# Sergey Aksenov

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## Education

- 2017–2019 Master, applied mathematics and computer science, Moscow Institute of Physics and Technologies, Dolgoprudny, Russia..
- 2013–2017 Bachelor, applied mathematics and computer science, Moscow Institute of Physics and Technologies, Dolgoprudny, Russia..

## Professional experience

- January 2021– Data scientist, finance, DOM.RF Bank, Moscow, Russia.
- Developing credit scoring model for real estate companies.
  - Developing cash flow prediction model for mortgage-backed security.
- February 2018– Data scientist in NLP, Sberbank of Russia, Moscow, Russia.
- Developing algorithms and tools for information extraction from text using deep learning techniques.
  - Working on a project to automate routine actions in mail. Implementing tools for analysis of post messages. Developing algorithms for extracting information from post messages.
- June 2017 – Data scientist, Tochka Bank, Moscow, Russia.
- January 2018
- Applying machine learning for client scoring and anti-fraud..
  - Developed and implemented neural network with similar to DSSM architecture to estimate each client based on transaction history and client's topic profile (calculated using topic modeling algorithms).
- October 2016 – June 2017 Student Research Intern in NLP, Yandex, Moscow, Russia..
- Collected a diachronic corpora of russian texts.
  - Developed algorithms and program system for diachronic embeddings comparison.
- October 2016 – June 2017 Data scientist, Marketing Logic, Moscow, Russia..
- Developing machine learning algorithms for scoring geographical locations.
  - Implemented algorithm for real estate estimation based on its geographical features.

## Academic experience

### Publications

- LREC 2020 "A Joint Approach to Compound Splitting and Idiomatic Compound Detection". Irina Krotova, Sergey Aksenov, Ekaterina Artemova
- NAACL 2021 "Teaching a Massive Open Online Course on Natural Language Processing". Ekaterina Artemova, Murat Apishev, Denis Kirianov, Veronica Sarkisyan, Sergey Aksenov, Oleg Serikov

### Teaching experience

- September 2018– Visiting lecturer, Higher School of Economics, Moscow, Russia.
- Taught the course "Analysis of unstructured data".
  - Taught the course "Generative models and text analysis".
  - Taught the online course "Text analysis".
  - As a scientific advisor prepared two students for the graduation.

- March 2020   Lecturer, AI Academy, Moscow, Russia.  
    ◦ Taught the online course "Introduction to Python".
- January 2019   Visiting lecturer, Moscow Institute of Physics and Technologies, Dolgoprudny, Russia..  
– June 2020   ◦ Taught the course "Texts analysis".

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## Professional skills

### Good at

Languages   Python

Technologies   scikit-learn, scipy, numpy, pandas, nltk, pymorphy2, gensim, networkx, BigARTM, HuggingFace

### Have experience with

Languages   C/C++, C#, F#, Java, Scala, Swift, R

Technologies   PyTorch, keras, TensorFlow, theano, lasagne, boost, geopy, scikit-image, OpenCV, Hadoop, MPI, OpenMP, ALAP, Django, Flask, MySQL, SQLite, Git, SVN, bash,  $\LaTeX$ , LIME

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## Natural languages

Russian   Native

English   C1

German   A2

French   A2