

ELIZABETH ARYSLANOVA

MACHINE LEARNING ENGINEER

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SUMMARY

Freelance machine learning engineer with a master's degree in optics and a background in mathematical modeling. With 15 years of dedicated mathematics teaching experience and a successful track record in online course production and consulting on 20+ projects.

EDUCATION

POSTGRADUATE DEGREE (Unfinished)

Mathematical Modeling,
Numerical Methods and
Software Solutions
ITMO University
2014 - 2018

MASTER OF ENGINEERING AND TECHNOLOGY

Photonics and Optical
Information Technology
ITMO University
2012 - 2014

BACHELOR OF ENGINEERING AND TECHNOLOGY

Photonics and Optical
Information Technology
ITMO University
2008 - 2012

SKILLS

Programming & Frameworks

Python, PyTorch, Librosa,
NumPy, SciPy, Matplotlib,
HTML, CSS

Software

Logic Pro X, Wolfram
Mathematica, Final Cut,
DaVinci Resolve, Affinity
Photo, Affinity Designer,

Other

Capturing visuals,
Public speaking, Teaching,
Simplifying complexity,
Soldering, Audio recording

LANGUAGES

English, Russian - Native
German - Intermediate

EXPERIENCE

MACHINE LEARNING ENGINEER

Freelance

Remote | Feb 2024 - Present

- Worked on 5 audio plugins.
- Implemented Convolutional Neural Networks (CNNs) and Temporal Convolutional Networks (TCNs) for audio-related machine learning models.
- Prototyped DSP algorithms in Python.

MATHEMATICS SCIENCE TUTOR

Self Employed

Remote | Jan 2020 - Present

St. Petersburg, Russia | Feb 2009 - Jan 2020

- Teaching mathematics, physics, and computer science to over 70 people ranging from 1st-grade pupils to master degree students from Russia, Israel, Germany, and the UK.
- Created and produced a [YouTube channel](#) about school mathematics (in Russian) that has over 120 videos, over 50k subscribers, and over 4M views.

RESEARCH ENGINEER

ITMO University

St. Petersburg, Russia | Mar 2011 - Jun 2017

- Mathematical modeling in physical electrochemistry.
- Oversaw grant administration for multiple projects, particularly in the field of quantum technologies.
- Taught a Bachelor's level course in Numerical methods in programming.
- Over [13 publications](#) in international journals.
- Over 20 conference presentations.

PROFESSIONAL DEVELOPMENT

Neural Networks and Deep Learning

DeepLearning.AI
June 2023 - [coursera.org](#)
Grade: 97.5 %
[Certificate link](#)

Winner of
YouTube NextUp 2021
YouTube, Google
Mar 2021 - [Channel link](#)
[Announcement link](#)

Specialist Certificate in
General Music Studies
Berklee Online
Dec 2014 - [online.berklee.edu](#)
Voice Technique, Music
Foundations, Jazz Singing