

# 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 16 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,  
PyQt5, PySide6, 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 10 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 - May 2025

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