

# Polina Ivanilova

## Machine Learning Engineer

Passionate ML Engineer with a strong background in theoretical concepts and practical application of Machine Learning. Experienced in leveraging various frameworks and libraries to develop innovative solutions.

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🌐 LinkedIn Profile

🐙 GitHub Profile

## EXPERIENCE

### •ML Engineer

May 2023 - present

EVdirect

Toronto, Canada

- Developed a Django-based data analysis application.
- Utilized Pandas and Pyplot libraries for extensive data analysis to identify key factors influencing company expenses.
- Developed Time Series Forecasting models using: PyTorch LSTM, Sktime, Hierarchical models for accurate predictions.

### •University Research Assistant

Jan. 2020 - Dec. 2020

MIPT Laboratory

Moscow, Russia

- Compiled and conducted a patent research report.
- Achieved familiarity with methods for research design, implementation, and analysis.

## EDUCATION

### •Moscow Institute of Physics and Technology (MIPT)

Sep. 2018 - June 2022

B.Sc. in Computer Science and Applied Mathematics

Moscow, Russia

## MACHINE LEARNING PROJECTS

### •Detecting Hate tweets

Jan 2023

NLP project

- Developed a project utilizing TensorFlow, Keras, and NLTK to detect hate speech in tweets.
- Implemented the model using a labeled dataset, enabling effective identification of tweets containing hate speech versus those that do not.

### •Spam Classifier

Jan 2023

NLP project

- This project aims to create a spam classifier using NLP techniques.
- The dataset used for this project contains a collection of SMS messages labeled as spam or not spam.
- A problem solved in two ways: using length and punctuation and message text processing.
- Tools & technologies used: Scikit-learn, XGBoost, SpaCy, Re

## MACHINE LEARNING COURSES

### •Natural Language Processing Specialization I

Jan. 2023 - Feb. 2023

## PUBLICATIONS

### •“Newton’s Aerodynamic Problem” (RUS) S. Gorelov, P. Ivanilova (MIPT)

2022

## SKILLS

**Languages:** English (Full Professional Proficiency), Russian (Native)

**Programming Languages:** Python, C++, SQL

**Frameworks:** Django, Tensorflow, Keras, PyTorch, Sktime, SciKit Learn, Numpy, Pandas, Pyplot, Seaborn, OpenCV, SpaCy, NLTK

**Tools:** Visual Studio Code, Git, Jupyter Notebook

**Soft Skills:** Communication, Adaptability, Teamwork, Conflict Management, Organizational