Polina Ivanilova

ML Engineer
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Canadian Citizenship

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GitHub Profile
LinkedIn Profile

TECHNICAL SKILLS AND INTERESTS

Languages	: Python, C++, SQL
Technologies	: Tensorflow, Keras, PyTorch, SciKit Learn, Numpy, Pandas, OpenCV, SpaCy, NLTK
Tools	: Maya, Visual Studio Code, Git, Jupyter Notebook
Soft Skills	: Communication, Adaptability, Teamwork, Conflict management, Organizational
Areas of Interest	: Movies, Dancing, DnD

EDUCATION

- **MIPT — Moscow Institute of Physics and Technology Moscow** *Sep. 2018 - June*
  2022 B.Sc. in Computer Science and Applied Mathematics Moscow, Russia

EXPERIENCE

- **MIPT Laboratory** *Jan. 2020 - Aug. 2020*
  University research assistant Moscow, Russia
  - Compiled and conducted a patent research report
  - Familiarity with methods for research design, implementation, and analysis
- **Secondary school No. 10** *Nov. 2020 - Feb. 2021*
  School Math Teacher Moscow, Russia
  - Provided group tutoring (up to 25 students)
  - Maintained students' progress and attendance reports
- **Self Employed** *Sep. 2018 - Oct. 2022*
  Math Tutor Moscow, Russia
  - Provided tutoring in small groups and individual sessions
  - Monitored student performance and provided feedback for improvements

MACHINE LEARNING PROJECTS

- **3D Motion Capture** *Mar 2023*
  CV project
  - This project aims to to extract animation from a video shot by a normal webcam.
  - Tools & technologies used: OpenCV
- **Detecting Hate tweets** *Jan 2023*
  NLP project
  - This project aims to detect hate speech in tweets using ML and NLP techniques.
  - The dataset used for this project contains a collection of tweets labeled as hate speech or not.
  - Tools & technologies used: TensorFlow, Keras, NLTK
- **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 ham.
  - 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

- **Advanced Computer Vision with TensorFlow** *Mar. 2023*
- **Natural Language Processing specialization I** *Jan. 2023 - Feb. 2023*

PUBLICATIONS

- **"Newton's aerodynamic problem" (RUS)** S. Gorelov, P. Ivanilova (MIPT) *2022*

VOLUNTEER EXPERIENCE

- **Hawthorn School for Girls** *Nov. 2022 - Feb.2023*

Math Teacher North York, Ontario

  - Help students with math problems

ADDITIONAL ACTIVITIES

- **Manager of the swimming club in the University** *May 2020 - June 2022*
- **Participant in the psychological club** *Sep. 2019 - May 2022*
  - Training on psychological assistance by the University.
  - After volunteering as a mental health peer counseling consultant.