Ivan Nasonov
Data Scientist

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SUMMARY

Physics graduate with a Bachelor's degree from MSU, currently pursuing a Master's degree. Skilled in machine learning (RL, CV, TR, RNN) for solving control problems, image recognition, and sequence classification. Published 1 article in Automation and Remote Control journal, with 2 more in progress. Completed 7 ML projects, demonstrating strong practical experience. Collaborative team player with a 2nd place win in the All-Russian Hackathon for Telegram Bots.

EXPERIENCE

Institute of Control Sciences of Russian Academy of Sciences — Moscow, RU
- *Data Scientist, Engineer of lab. control based on incomplete data* — Oct. 2021 - Present
  `Python` `TensorFlow`
  - Leveraging machine learning (RL, CV, TR, RNN) for addressing control problems, image recognition, and sequence classification, with presentations at All-Russian conferences on control systems and mathematical theory of control.

GreenEco Investments — Moscow, RU
- *Data Analyst team* — May 2021 - Mar. 2022
  `Climate research`
  - Engaged in reducing emissions, decarbonization, and forest/peat bog expansion projects while collaborating with Joint Crediting Mechanism, VERRA, Gold Standard, and Climate Action Reserve, and performing carbon market analysis.

PROJECTS

- **Neural Network For Whale Detection** — Moscow, RU
  `Python` `TensorFlow` — Dec. 2022 - Mar. 2023

  Transfer learning of the Xception network was used for recognizing and classifying whale voices using spectrograms.

- **ROTI Maps Daily Prediction** — Moscow, RU
  `Python` `TensorFlow` — Sept. 2022 - Jan. 2023

  Using deep learning and Recurrent Neural Networks, daily prediction and synthesis of ROTI maps based on geomagnetic and solar indices were obtained.

ACHIEVEMENTS

- **Weeklython - II place [All-Russian Hackathon]** — Moscow, RU
  `Python` `SQLAlchemy` `Web UI` — Aug. 2022

  Developed Telegram bot for booking School Objects. The project contains CI/CD technology, Database project, IDEF0 diagram, UI/UX project in Figma.

- **Marusia Game Challenge - Prize-winning place [Hackathon VK]** — Moscow, RU
  `C++` — Aug. 2020

  Algorithmic solution finding in games for training the voice assistant Marusia of VK company.

PUBLICATIONS

- **Neural Network Algorithm for Intercepting Targets Moving Along Known Trajectories by a Dubins' Car**

EDUCATION

Lomonosov Moscow State University — Moscow, RU
- *Master's degree in Physics* — Sept. 2022 - Aug. 2024 (Present)

Lomonosov Moscow State University — Moscow, RU
- *Bachelor of Physics* — Sept. 2018 - Jul. 2022
  - **Thesis**: A neural network algorithm for intercepting targets moving along known trajectories by a Dubins' machine.

ADDITIONAL EDUCATION

- **School21 − peer-to-peer coding school fostering practical learning** — Moscow, RU
  Programming school — Apr. 2022 - Jun. 2024 (Present)

- **deeplearning.ai** — Coursera
  The Deep Learning Specialization — Mar. 2020 - May 2020
  - **Subjects**: Neural Networks and Deep Learning; Hyperparameter tuning, Regularization and Optimization; Convolutional Neural Networks; Sequence Models; Recurrent Neural Networks

PROGRAMMING SKILLS

- **Languages**: C, C++, Python, Bash
- **Technologies**: ML, DL, RL, CV, TR, SQL, Git, LaTeX, MPI for Python
- **Knowledge**: Algorithms, Data Structures, Parallel Programming