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Ilia Igashov

Education

- 2020 Université Grenoble Alpes Grenoble INP,
- Present Master of Science in Industrial and Applied Mathematics (2nd year).
- 2019 Moscow Institute of Physics and Technology,
- Present Master of Science in Informatics and Computer Engineering.
 - Thesis: Graph convolutional networks for protein quality assessment.
- 2015 2019 Moscow Institute of Physics and Technology,

Bachelor of Science in Applied Mathematics and Physics, GPA: 4.5/5.

Thesis: Application of multi-armed bandits in Yandex.Radio.

Experience

- Apr 2020 Head of Data Science, PeakData, Remote.
 - Present o NLP startup in healthcare domain aimed to gather and process information on medical topics.
- Nov 2019 Research Intern, Inria Rhône-Alpes, Nano-D Team, Grenoble, France.
- May 2020 Created methods VoroCNN and Spherical Graph Convolutional Network (S-GCN) for protein MQA problem.
- Sep 2018 Software Developer, Yandex. Music, Recommendation Team, Moscow, Russia.
- Oct 2019 Launched three smart playlists based on personal recommendation algorithms.
 - o Implemented Multi-Armed Bandits algorithm for optimal recommendation of radio stations for new users.
 - Created personal recommendations of podcasts and promotions.
- Feb 2018 Academic Intern, iPavlov AI, Moscow, Russia.
- May 2018 Practice in NLP project: NER system for Russian language.
- July 2017 Summer Intern, Intel, Nizhny Novgorod, Russia.
- Aug 2017 Implemented and integrated additional split criteria in Decision Tree algorithm for Intel DAAL.

Publications

- o <u>Ilia Igashov</u>, Nikita Pavlichenko, Sergei Grudinin. "Spherical convolutions on molecular graphs for protein model quality assessment". *Preprint*. 2020. arXiv: 2011.07980.
- <u>Ilia Igashov</u>, Kliment Olechnovič, Maria Kadukova, Česlovas Venclovas, Sergei Grudinin. "VoroCNN: Deep convolutional neural network built on 3D Voronoi tessellation of protein structures". *In revision at Bioinformatics*. 2020. bioRxiv doi: 2020.04.27.063586.

Projects & Activities

- Apr 2020 Critical Assessment of protein Structure Prediction, Participant.
- Aug 2020 3 variations of VoroCNN + Spherical Graph Convolutional Network (S-GCN) for CASP14.
 - o 2 variations of VoroCNN for CASP Commons, COVID-19.
- Feb 2020 Academic course "My first scientific paper" at MIPT, Mentor.
- May 2020 Supervised a MIPT student in research project on spherical convolutions for molecular graphs.
- Dec 2019 Tsukuba University UGA Computer Science Workshop, Grenoble, Speaker.
 - Report "Graph convolutional networks in Structural Bioinformatics".
- July 2019 Sberbank Machine Learning Course, Moscow, Lecturer.
- Aug 2019 Taught introductory Python and Machine Learning courses for Sberbank employees.
- Oct 2018 Vk Hackathon, Saint Petersburg, Participant.
 - o Created an Android application for recognition composers on wall posters (Moscow Philharmonia project).

Skills

Programming Python, C/C++, Java, SQL Frameworks PyTorch, TensorFlow, Keras

Utilities Git, Docker, Jupyter, Postgres, MySQL, MongoDB

Language English (TOEFL iBT: 106), French (A2), Russian (Native)