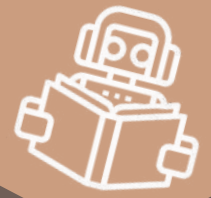




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ONLINE SUMMER SCHOOL

MACHINE LEARNING THEORY AND APPLICATION

July 19 – 30, 2021

LEARN MORE ABOUT MACHINE LEARNING, JOIN
THIS SUMMER SCHOOL!

ECTS credits: 4.0



POLYTECH

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BRIEF DESCRIPTION

The course introduces students to the theoretical foundations of machine learning and data science, as well as to the solution of real business problems with the help of computer vision, classification and regression algorithms. The optimal balance between theory and practice provides both a good foundation and the ability to apply knowledge in practice.

Cost:

US\$421 - includes registration, teaching costs, 4.0 ECTS credits Certificate, additional Russian Language virtual course by ALAR Training Center (33h) + Certificate

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Program dates: July 19 – 30, 2021

Registration deadline: 28 June 2021

Entrance requirements

- - Elementary knowledge of programming skills;
- - Knowledge of basics of matrix operations and differentiation;
- - Good command of English. All classes and extracurricular activities are carried out in English. Knowledge of the Russian language is not required;
- - Applicants are expected to have at least 1 year of University level studies.

Professors and lecturers

- Ogul Unal - PhD, Institute of Computer Science and Technology, SPbPU; M-com Search Engine Optimization specialist";
- Nikita Kudryashov - PhD, Institute of Computer Science and Technology, SPbPU; Gazprom-neft leading specialist.

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Course description

The following topics will be covered:

- - Introduction to Artificial intelligence and Machine Learning
- - Brief History review and state of the art
- - Supervised and unsupervised learning
- - Overfitting and underfitting
- - Regularization in ML
- - Model Validation techniques
- - Machine learning algorithms classification
- - Data processing techniques
- - Machine learning application workflow
- - Hyperparameters tuning tactiques;
- - Binary classification and logistic regression
- - Shallow Neural networks
- - Deep Neural networks
- - Convolutional Neural Networks Basics
- - Deep Sequential Neural Networks

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