



ALAR
Training Center



ONLINE SUMMER SCHOOL

BIG DATA: THEORY AND APPLICATION

Aug 02 - 13, 2021

WOULD YOU LIKE TO GO DEEPER INTO BIG DATA PROCESSING AND GET ACQUAINTED WITH THE STUDENTS FROM ALL OVER THE WORLD? JOIN THIS SUMMER SCHOOL!

ECTS credits: 4.0



POLYTECH

Peter the Great
St. Petersburg Polytechnic
University



COURSE DESCRIPTION

- Introduction to Data science
 - - Glossary of big data
 - - Types of data
 - - Structured data
 - - Unstructured data
 - - Data in natural language
 - - Machine data
- Working with big data
 - - Data collection
 - - Data preparation
 - - Data research
 - - Modeling and building models
- A system for collecting, processing and storing big data
 - - SQL databases
 - - NoSQL databases
 - - Tools for working with big data
 - - Highly loaded systems
 - - Big data processing in practice
- Machine Learning
 - - Data preprocessing
 - - Statistical data analysis
 - - Building models
 - - Neural networks
- Project work: Development of software for working with big data

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Cost:

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

Program dates: Aug 02 - 13, 2021

Registration deadline: 12 July 2021

Entrance requirements

- - Good command of English. All classes and extracurricular activities are conducted in English. Knowledge of the Russian language is not required;
 - - Applicants are expected to have at least 1 year of University level studies;
 - - Linear algebra: vectors, matrices, and their products, derivative;
 - - Probability theory: random events, mathematical expectation, variance;
 - - Basic programming knowledge: Python/R, SOLID, SQL, git, docker.
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Professors and lecturers

- Vyacheslav Potekhin, Associate Professor, PhD.
- Anton Alekseev, PhD, researcher
- Daniil Lyadsky, PhD, researcher
- Vladislav Efremov, PhD, researcher
- FESTO Group
- PTC, Inc

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