

**ONLINE**

# SUMMER CAMP

in Machine Learning **2021**

## WHEN?

July 19 - 30, 2021

## ECTS?

Yes! 3 ECTS + ITMO Official Certificate

## FEES?

22,000 RUB (~ 245€)

## APPLICATION DEADLINE?

July 8, 2021

## APPLICATION DOCUMENTS?

- Copy of your current passport
- CV
- send to Ms. Ekaterina Rassolenko at [e.rassolenko@itmo.ru](mailto:e.rassolenko@itmo.ru)

## REQUIREMENTS?

- Python programming language
- English B1 and higher

## REQUIRED PROGRAMS?

- IDE for Python, C++ or Java, PyCharm, NumPy, SciPy, Scikit-Learn, Zoom



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in Machine Learning 2021

# SCHEDULE

July 19 - 30, 2021

<b>JULY 19</b> <b>MONDAY</b>	<b>Introduction to Machine Learning</b>	<b>11:00 – 13:00</b>	Lecture
		<b>13:00 – 15:00</b>	Practice
<b>JULY 20</b> <b>TUESDAY</b>	<b>Basic Models</b>	<b>11:00 – 13:00</b>	Lecture
		<b>13:00 – 15:00</b>	Practice
<b>JULY 21</b> <b>WEDNESDAY</b>	<b>Linear Models. Support Vector Machine</b>	<b>11:00 – 13:00</b>	Lecture
		<b>13:00 – 15:00</b>	Practice
<b>JULY 22</b> <b>THURSDAY</b>	<b>Probabilistic Classifiers. Trees and Ensembles</b>	<b>11:00 – 13:00</b>	Lecture
		<b>13:00 – 15:00</b>	Practice
<b>JULY 23</b> <b>FRIDAY</b>	<b>Model Selection and Optimization</b>	<b>11:00 – 13:00</b>	Lecture
		<b>13:00 – 15:00</b>	Practice
<b>JULY 26</b> <b>MONDAY</b>	<b>Clustering</b>	<b>11:00 – 13:00</b>	Lecture
		<b>13:00 – 15:00</b>	Practice
<b>JULY 27</b> <b>TUESDAY</b>	<b>Introduction to Neural Networks. Neural Networks and Optimization</b>	<b>11:00 – 13:00</b>	Lecture
		<b>13:00 – 15:00</b>	Practice
<b>JULY 28</b> <b>WEDNESDAY</b>	<b>Convolutional Neural Networks. Recurrent Neural Networks</b>	<b>11:00 – 13:00</b>	Lecture
		<b>13:00 – 15:00</b>	Practice
<b>JULY 29</b> <b>THURSDAY</b>	<b>Dimensionality Reduction</b>	<b>11:00 – 13:00</b>	Lecture
		<b>13:00 – 15:00</b>	Practice
<b>JULY 30</b> <b>FRIDAY</b>	<b>Noise Filtering and Missing Values Completion</b>	<b>11:00 – 13:00</b>	Lecture
		<b>13:00 – 15:00</b>	Practice

All classes are scheduled according to Moscow time (GMT +3).

