

## Open Machine Learning Course [mlcourse.ai](https://mlcourse.ai) by OpenDataScience

**Level:** Beginner

**Language:** Python

**Cost:** Free

**Outline:** [mlcourse.ai](https://mlcourse.ai) is an open Machine Learning course by [OpenDataScience](https://opendata-science.com/). The course is designed to perfectly balance theory and practice. You can take part in several Kaggle in-class competitions held during the course. The next (and final) session launches on September 2, 2019.

### Prerequisites before taking the course?

Prerequisites are some knowledge about Python language, working knowledge of Jupyter Notebooks, basic knowledge of linear algebra and statistics.

### Time commitment?

The course period was from 01 Oct till 21 Dec, so roughly 3 months. There are around 10 lectures on different topics and on an average 1 week for each lecture. There are assignments for each lecture and this needs to be completed by every weekend. Apart from usual lectures, there are few Kaggle competitions in which we need to take part in and beat some baseline scores, there are 2 projects which run in parallel for 3 months.

### What data science content is in the course?

- Use of Pandas, Matplotlib, Seaborn, Plotly in machine learning
- Decision Trees, Random Forest, Gradient Boosting
- KNN algorithm
- Linear and Logistic Regression
- Feature selection and engineering
- Unsupervised learning
- Dimensionality reduction techniques
- Time-series analysis

### Who would the course be suitable for?

For a beginner who has already some basic knowledge about machine learning basics and want to expand the horizons into practical applications of machine learning.

### What worked well in the course?

- Lots of important and useful techniques which can be used in daily works in the areas of machine learning
- This course balances theory and practical applications well
- An opportunity to interact and compete with a very large group of machine learning enthusiasts and practitioners
- Strict timelines and a sense of competition in all assignments, projects etc.

### What could be improved in the course?

This course is very popular in Russia and nearly all contributors of this course are Russian so language can sometimes be an issue. However, they tried their best to convey the lectures in English. Inclusion of topics such as Support Vector Machines and Artificial Neural Networks could be helpful.