Python - Introduction to Machine Learning

Course code: PYTHON_ML

The training provides the necessary introduction to the issue of machine learning in the Python programming language. During five days we will take over the issue of machine learning in practical cases with and without a teacher (supervised and unsupervised learning). The course takes the form of live coding and is therefore extremely intensive. We recommend the candidate to take the previous courses PYTHON_DATAAN and PYTHON_STATS.The course is intended for anyone who is interested in machine learning technology, has the ambition to become a data scientist (Data Sciencist) and address the issue of advanced analytics. Training can also be a good source of information for project managers and decision-makers who face the challenge of deploying machine learning for the analysis and interpretation of company data and thus gain additional added value to support business activities or. to support business managers.

Affiliate	Duration	Course price	ITB
Praha	5	28 500 Kč	50
Brno	5	28 500 Kč	50
Bratislava	5	1 140 €	50

The prices are without VAT.

Course terms

Date	Duration	Course price	Type	Course language	Location
10.11.2025	5	28 500 Kč	Online	CZ/SK	Online
10.11.2025	5	1 140 €	Online	CZ/SK	Online
02.03.2026	5	28 500 Kč	Presence	CZ/SK	GOPAS Praha
22.06.2026	5	28 500 Kč	Presence	CZ/SK	GOPAS Praha

The prices are without VAT.

Requirements per participant

- Knowledge of Python programming at the PYTHON_INTRO course level
- Knowledge of the basics of data analysis at the level of the course PYTHON_DATAAN
- Knowledge of the basics of statistical processing in Python at the level of the PYTHON_STATS course

Teaching methods

- Expert explanation with practical examples, exercises on computers.

Study materials

- Online presentation of the subject matter and exercises.

Course syllabus

- Introduction
- Data collection
- Data preparation
- What is machine learning
- Supervising learning
- Un-supervising learning
- Scikit-Learn module
- Hyperparameters and model validation
- Classifications
- Regression models

GOPAS Praha
Kodaňská 1441/46
101 00 Praha 10
Tel.: +420 234 064 900-3
info@gopas.cz

GOPAS Brno
Nové sady 996/25
602 00 Brno
Tel.: +420 542 422 111
info@gopas.cz

GOPAS Bratislava
Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 248 282 701-2
info@gopas.sk

- Decision trees
- Clustering - data clustering
- Deep learning
- Conclusion

GOPAS Praha
Kodaňská 1441/46
101 00 Praha 10
Tel.: +420 234 064 900-3
info@gopas.cz

GOPAS Brno
Nové sady 996/25
602 00 Brno
Tel.: +420 542 422 111
info@gopas.cz

GOPAS Bratislava
Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 248 282 701-2
info@gopas.sk