

Time Series II

Course code: MLC_TISEA

The course is intended for people who want to deepen their knowledge and experience in the field of time series analysis. This is a follow-up course of Time Series, which focuses mainly on other time series domains and their specifics. We will particularly study sound data with a combination of recurrent and convolutional neural networks and the sentiment analysis task on textual data.

Affiliate	Duration	Course price	ITB
Praha	1	4 990 Kč	0
Bratislava	1	210 €	0

The prices are without VAT.

Course terms

Date	Duration	Course price	Type	Course language	Location
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The prices are without VAT.

Who is the course for

The course is intended for people who want to deepen their knowledge and experience in the field of time series analysis.

Required skills

- basic knowledge of programming in Python
- high school level of mathematics
- Knowledge of machine learning on the level of our course Time Series

Course outline

- Advanced feature preprocessing
- Classification/pattern detection in sound data
- Short-time Fourier transformation
- CNN for sound classification: spectrogram as an image
- LSTM & CNN combination
- Example: Speech detection using neural networks
- Time series prediction from textual features
- Data preprocessing
- Sentence & word tokenization
- Model-based vs. dictionary-based word embeddings
- Of-the-shelf pre-trained word-embeddings models
- Pre-training with auxiliary classification tasks
- Model combination & fine-tune training
- Example: Time series predictions using sentiment analysis of news data

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



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