

Convolutional Neural Networks and Image Processing

Course code: MLC_CNIP

Our workshop is for people who are looking for hands-on experience with deep neural networks for image processing, but they didn't have any real opportunity to do so yet. Through experiments, we will explore how and why such models work, the intuition behind its functionality, and gradually, through simple examples, we will come to the models commonly used in industry. We will focus on possible use cases for neural net's internal semantic image representation and how to visualize neural net behavior in the most effective way.

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

The prices are without VAT.

Course terms

Date	Duration	Course price	Type	Course language	Location
08.10.2026	1	4 990 Kč	Presence	CZ/SK	Machine Learning College
08.10.2026	1	4 990 Kč	Online	CZ/SK	ML College - Online

The prices are without VAT.

Who is the course for

Our workshop is for people who are looking for hands-on experience with deep neural networks for image processing, but they didn't have any real opportunity to do so yet.

Required skills

- basic knowledge of programming in Python
- high school level of mathematics
- Basics of machine learning on the level of our course Introduction to machine Learning

Course outline

- VGG 16 and ResNet
- Transfer learning and fine-tuning
- Image classification
- Batch normalization and data augmentation
- U-net and Image segmentation
- GANs and superresolution
- Neural network explainability
- Adversarial patch

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