

# Get Started with Intel and NVIDIA Artificial Intelligence Technologies

(PRACE Training Course)

**11<sup>th</sup> - 12<sup>th</sup> November 2019**

**VSB - Technical University of Ostrava  
IT4Innovations**

**Lecturers:** Georg Zitzlsberger - IT4Innovations, Stephen Blair-Chappell - Bayncore

The course is for anyone interested in Machine/Deep Learning (ML/DL) training, optimization and deployment on the latest Intel (i.e. CPUs, iGPUs, FPGAs, NPUs) and NVIDIA architectures (i.e. GPUs). To avoid redundancies, the course is balanced by giving a general introduction on day 1 and highlighting differences between the architectures on day 2. Participants will be given working examples for DL and ML that they can use as a starting point for their own projects. Furthermore, the training includes a hands-on to get started with AI on IT4Innovation's clusters NVIDIA DGX-2 and Barbora.

## Monday 11<sup>th</sup> November 2019

08:30 - 09:00	Registration/Presentation
09:00 - 09:30	Introduction
09:30 - 10:30	Intel Architectures for AI
10:30 - 10:45	Coffee break
10:45 - 13:00	Deep Learning Training on Intel Architecture with Tensorflow
13:00 - 14:00	Lunch
14:00 - 15:30	Efficient Model Deployment using Intel OpenVINO Toolkit
15:30 - 15:45	Coffee break
15:45 - 17:00	Machine Learning on Intel Architecture with scikit-learn
17:00 - 17:30	Q&A

## Tuesday 12<sup>th</sup> November 2019

09:00 - 09:30	Introduction
09:30 - 10:30	Nvidia GPU Architecture for AI
10:35 - 10:45	Coffee break
10:45 - 13:00	Deep Learning Training on Nvidia GPUs with Tensorflow
13:00 - 14:00	Lunch
14:00 - 15:30	Model Optimization and Deployment using Nvidia TensorRT
15:30 - 15:45	Coffee break
15:45 - 17:00	Get Started with Nvidia V100 on IT4Innovations' clusters
17:00 - 17:30	Q&A



More information & registration:  
[events.it4i.cz/event/37/](https://events.it4i.cz/event/37/)



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