



David Podolskyi

Garching near Munich, 19 October 2021

Certificate of Attendance

David Podolskyi has attended the following 1 day online course on 19 October 2021, 10:00 – 16:00 CEST:

Building Transformer-Based Natural Language Processing Applications

In this online course, participants learn how to use Transformer-based natural language processing models for text classification tasks, such as categorising documents. They also learn how to leverage Transformer-based models for named-entity recognition (NER) tasks and how to analyse various model features, constraints, and characteristics to determine which model is best suited for a particular use case based on metrics, domain specificity, and available resources.

The lectures are interleaved with many hands-on sessions using Jupyter Notebooks. The exercises are done on a fully configured GPU-accelerated workstation in the cloud.

Topics covered include:

- Understand how text embeddings have rapidly evolved in NLP tasks such as Word2Vec, recurrent neural network (RNN)-based embeddings, and Transformers,
- See how Transformer architecture features, especially self-attention, are used to create language models without RNNs,
- Use self-supervision to improve the Transformer architecture in BERT, Megatron, and other variants for superior NLP results,
- Leverage pre-trained, modern NLP models to solve multiple tasks such as text classification, NER, and question answering,
- Manage inference challenges and deploy refined models for live applications.

The course is co-organised by LRZ and NVIDIA Deep Learning Institute (DLI).

Dr. Volker Weinberg
Head of Education and Training

