

1st Terascale School on Machine Learning

22 - 26 October 2018

DESY, Hamburg

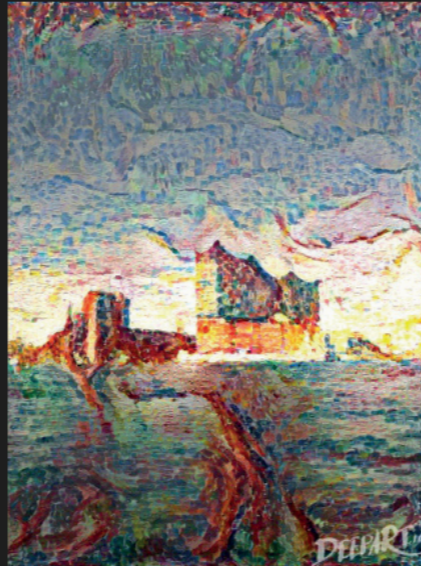
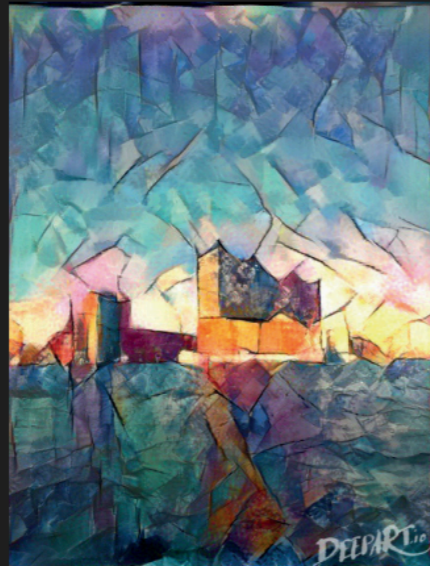
Lectures on machine learning:

- Introduction to ML
- Introduction to Deep Learning
- Advanced topics in Deep Learning
- Latest developments and new challenges in the field
- ML outside HEP

Tutorials:

- TMVA
- PyTorch
- Keras and Tensorflow

Thursday afternoon will be reserved for a ML challenge.



Speakers:

- Simone Frintrop
- Gregor Kasieczka
- Dirk Krücker
- Gilles Louppe
- Benjamin Nachman
- Fedor Ratnikov
- Andrey Ustyuzhanin

Tutorials:

- Lorenzo Moneta
 - Dirk Krücker
 - Adam Elwood & Christian Contreras Campana
- Challenge: Gregor Kasieczka

Education

- ~100 participants
- “Complete” Program:
 - Basics of ML, *Classic* techniques
 - Introduction to Deep Learning
 - Standard Architectures
 - Current developments
 - Most lectures by *HEP-practitioners*
- Several hands-on tutorials + challenge
 - AWS
 - Codalab
- Very successful (both our impression and generally very positive evaluation)