

# Certificate of Completion

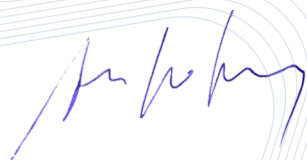


This is to certify that

**JOSEBA EGIA**

has successfully completed the training

**Machine Learning in Industry 4.0  
Online Training**



A handwritten signature in blue ink, appearing to read "J. Hunschofsky".

Ing. Mag. Johannes Hunschofsky, CSE  
Managing Director EIT Manufacturing East GmbH



A handwritten signature in black ink, appearing to read "S. Harrison".

Simeon Harrison  
EuroCC Austria, trainer for Machine Learning  
and High-Performance Computing

## COURSE DESCRIPTION:

Machine Learning in Industry 4.0 is an interactive online training designed for professionals and people interested in the basic theory of machine learning and deep learning, as well as the practical application with solving regression or classification problems. Developed by EuroCC Austria, Vienna Scientific Cluster and Know Center in collaboration with EIT Manufacturing CLC East, the 5-day programme is designed with industry and manufacturing applications in mind.

COURSE PROGRAMME:	
BLOCK 1:	<ul style="list-style-type: none"><li>• Theory, basic ideas of Machine Learning (ML) &amp; ML landscape</li><li>• Introduction of Data Science Libraries in Python</li></ul>
BLOCK 2:	<ul style="list-style-type: none"><li>• Linear, Polynomial and Lasso Regression</li><li>• Support Vector Machines</li><li>• Decision Trees</li><li>• Random Forests</li><li>• Theory and basic ideas of Neural Networks (NN) &amp; Deep Learning (DL)</li><li>• Quick tour of TensorFlow and Keras</li><li>• Fully connected NN</li><li>• Solving regression and classification problems</li><li>• Convolutional Neural Networks (CNNs)</li><li>• Max-Pooling and Dropout</li><li>• Manufacturing/industry-related examples</li><li>• Transfer learning on CNNs</li></ul>
BLOCK 3:	<ul style="list-style-type: none"><li>• Wrap up, repetition &amp; outlook</li><li>• High-Performance Computing (HPC)</li><li>• Training a NN on an HPC cluster</li><li>• Means and methods of improving performance</li></ul>