



Universität Regensburg

FAKULTÄT FÜR BIOLOGIE
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CERTIFICATE OF ATTENDANCE

This is to certify that

ALEXANDER GLÖTZL

hat successfully participated in Blockkurs 139024

„Machine Learning and Deep Learning with R“

The course consisted of **5 full days (40h)** of lectures, exercises and group work and was held
July 3rd – 7th 2023.

Topics covered in the course include:

Data cleaning and preparation; overview of ML tasks (Regression and classification, supervised, unsupervised, reinforcement), standard algorithms: SVM, RF, KNN, BRT, NNs; the ML pipeline, including feature selection, hyperparameter tuning, training under (nested) (cross)validation, predictions, deep learning for regression and classification (DNNs, CNNs), xAI, advanced algorithms (RNN, GAN, VAE, reinforcement-learning)

Regensburg, 11. Juli 23
Prof. Dr. Florian Hartig