

Supplementary Material

1. Hyperparameter search tables

1.1. Neural Network

Parameter	Values
Batch Normalization	True, False
Dropout	0.1 , 0.25, 0.4
Learning Rate	0.001, 0.0001, 3e-4
Filters per CONV layer	[16,32], [32,64], [64,128]
Dense layer filters	64, 128, 256

Table 1: Hyperparameter grid searched during training of the 3D convolutional neural network described in the paper. All combinations were tested using the same training procedure. Final selected parameters are highlighted in bold.

1.2. RF

Parameter	Values
Criterion	gini, entropy
Max. features	auto , log2
Min. samples for leaf	2, 4, 8 , 20
Min. samples for split	0.5, 2 , 5, 10
N ^o estimators	100, 200

Table 2: Hyperparameter grid searched during training of the RF model. Parameters names are taken from the implementation in the scikit-learn library, and we refer the reader to the documentation of the library for extended information on the parameters. All combinations were tested using the same training procedure. Final selected parameters are highlighted in bold.

1.3. SVM

Parameter	Values
Kernel	linear, rbf , sigmoid
C	0.1,1, 10
gamma	scale, auto

Table 3: Hyperparameter grid searched during training of the SVM model. Parameters names are taken from the implementation in the scikit-learn library, and we refer the reader to the documentation of the library for extended information on the parameters. All combinations were tested using the same training procedure. Final selected parameters are highlighted in bold.