Automatic generated report CNET0042.

Author: Palomo Alonso, Alberto

Date of submission: October 28, 2022.

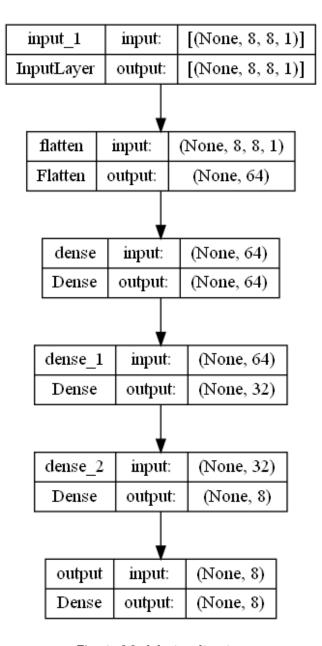


Fig. 1: Model visualization

1 Model

The model has been compiled successfully with the following parameters:

Layer	Shape	Attributes
Flatten	(None,)	
Dense	(64,)	
Dense	(32,)	
Dense	(8,)	

Tab. 1: Model architecture and attributes.

	Model summary	
_		

Model: "model_0"

Layer type	Output Shape	Param #
input_1 InputLayer	[None, 8, 8, 1]	0
flatten Flatten	None, 64	0
dense Dense	None, 64	4160
dense_1 Dense	None, 32	2080
dense_2 Dense	None, 8	264
output Dense	None, 8	72

Total params: 6,576 Trainable params: 6,576 Non-trainable params: 0

1.1 Compiler

- Problem specifications. The input shape mesh is (8, 8, 1), while the output shape is (8).
- Compiling options. The model makes use of the mean squared error loss function and the adam optimizer. The metrics taken into account are accuracy and loss.
- Devices. The model was trained with 1GPUs.

2 Database

The database 32k 8t 0w was generated with BaseNetDatabase (BND). The training -validation - test distribution is (70, 20, 10) and the total size of the database is 32768.

3 Performance

The obtained learning curve is shown below. With maxloss: 0.0263, and minloss: 0.0.

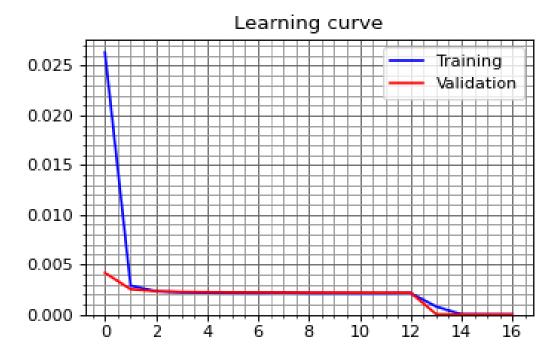


Fig. 2: Learning curve with the introduced database.