Automatic generated report CNET0046.

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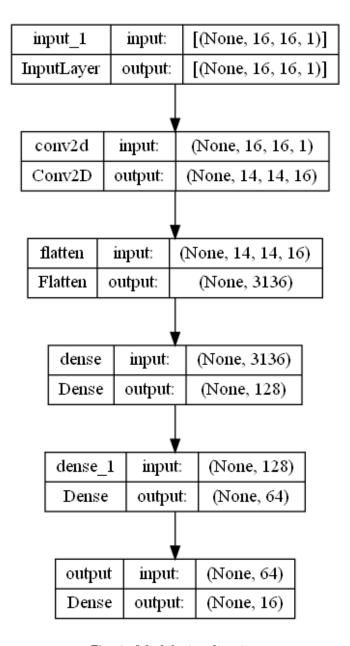


Fig. 1: Model visualization

1 Model

The model has been compiled successfully with the following parameters:

Layer	Shape	Attributes
Conv2D	(16, 3)	
Flatten	(None,)	
Dense	(128,)	
Dense	(64,)	

Tab. 1: Model architecture and attributes.

Model summary		
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Model: "model_0"

Layer type	Output Shape	Param #
input_1 InputLayer	[None, 16, 16, 1]	0
conv2d Conv2D	None, 14, 14, 16	160
flatten Flatten	None, 3136	0
dense Dense	None, 128	401536
dense_1 Dense	None, 64	8256
output Dense	None, 16	1040

Total params: 410,992 Trainable params: 410,992 Non-trainable params: 0

1.1 Compiler

- Problem specifications. The input shape mesh is (16, 16, 1), while the output shape is (16).
- 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 **test wk** was generated with BaseNetDatabase~(BND). The training -validation - test distribution is (60, 20, 20) and the total size of the database is 256.

3 Performance

The obtained learning curve is shown below. With maxloss: 0.078, and minloss: 0.0.

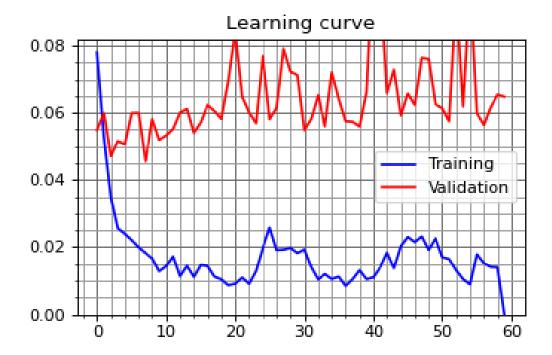


Fig. 2: Learning curve with the introduced database.