Automatic generated report CNET0022.

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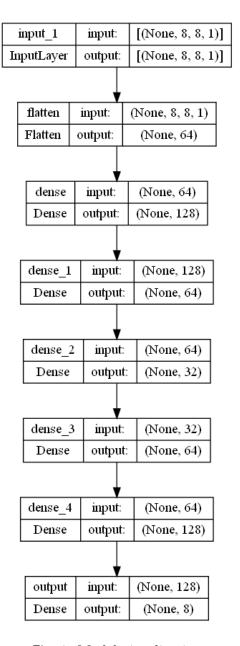


Fig. 1: Model visualization

1 Model

The model has been compiled successfully with the following parameters:

Layer	Shape	Attributes
Flatten	(None,)	
Dense	(128,)	
Dense	(64,)	
Dense	(32,)	
Dense	(64,)	
Dense	(128,)	

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, 128	8320
dense_1 Dense	None, 64	8256
dense_2 Dense	None, 32	2080
dense_3 Dense	None, 64	2112
dense_4 Dense	None, 128	8320
output Dense	None, 8	1032

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Total params: 30,120 Trainable params: 30,120 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 *hypertrain*. The training - validation - test distribution is 'train': 70, 'validation': 20, 'test': 10 and the total size of the database is (22938, 6554, 3276).

3 Performance

The obtained learning curve is shown below. With maxloss: 0.0073, and minloss: 0.0.

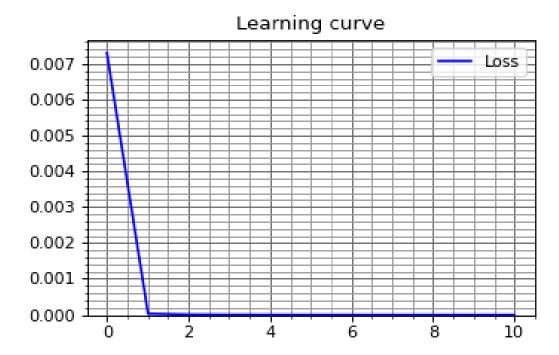


Fig. 2: Learning curve with the introduced database.