

Automatic generated report CNET0010.

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Date of submission: October 11, 2022.

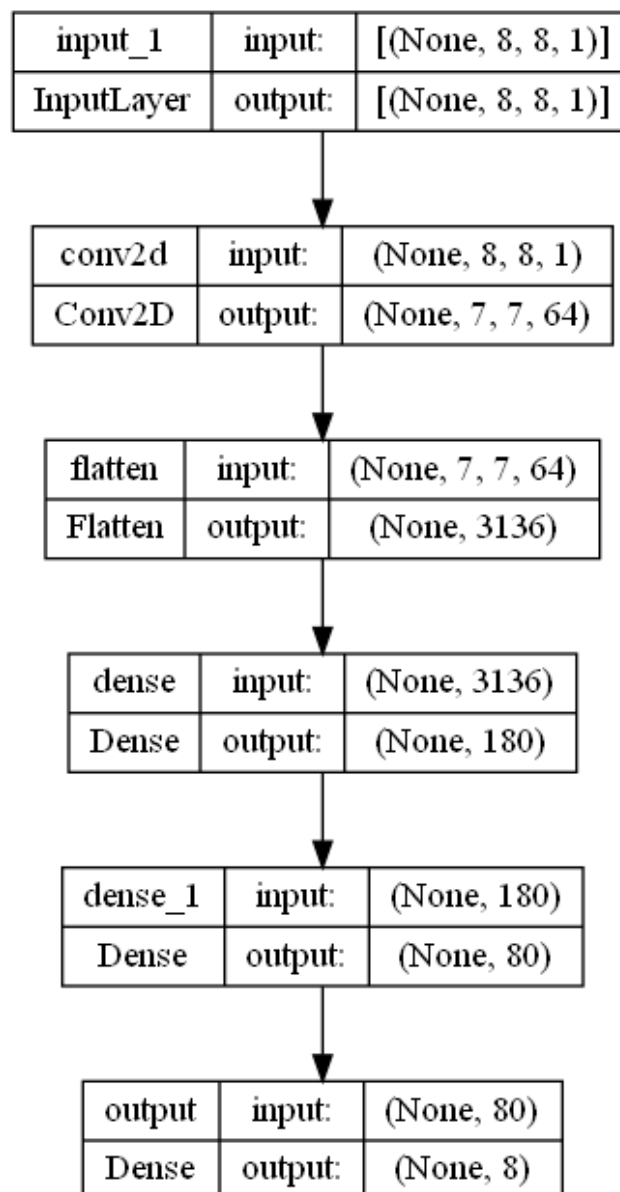


Fig. 1: Model visualization

1 Model

The model has been compiled successfully with the following parameters:

Layer	Shape	Attributes
Conv2D	(64, 2)	
Flatten	(None,)	
Dense	(180,)	
Dense	(80,)	

Tab. 1: Model architecture and attributes.

Model summary		
Model: "model"		
Layer type	Output Shape	Param #
input_1 InputLayer	[None, 8, 8, 1]	0
conv2d Conv2D	None, 7, 7, 64	320
flatten Flatten	None, 3136	0
dense Dense	None, 180	564660
dense_1 Dense	None, 80	14480
output Dense	None, 8	648
Total params: 580,108		
Trainable params: 580,108		
Non-trainable params: 0		
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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 **test dusan** was generated with *hypertrain*. The training - validation - test distribution is 'train': 50, 'validation': 25, 'test': 25 and the total size of the database is $(1024, 512, 512)$.

3 Performance

The obtained learning curve is shown below. With **maxloss**: 0.1075, and **minloss**: 0.0626.

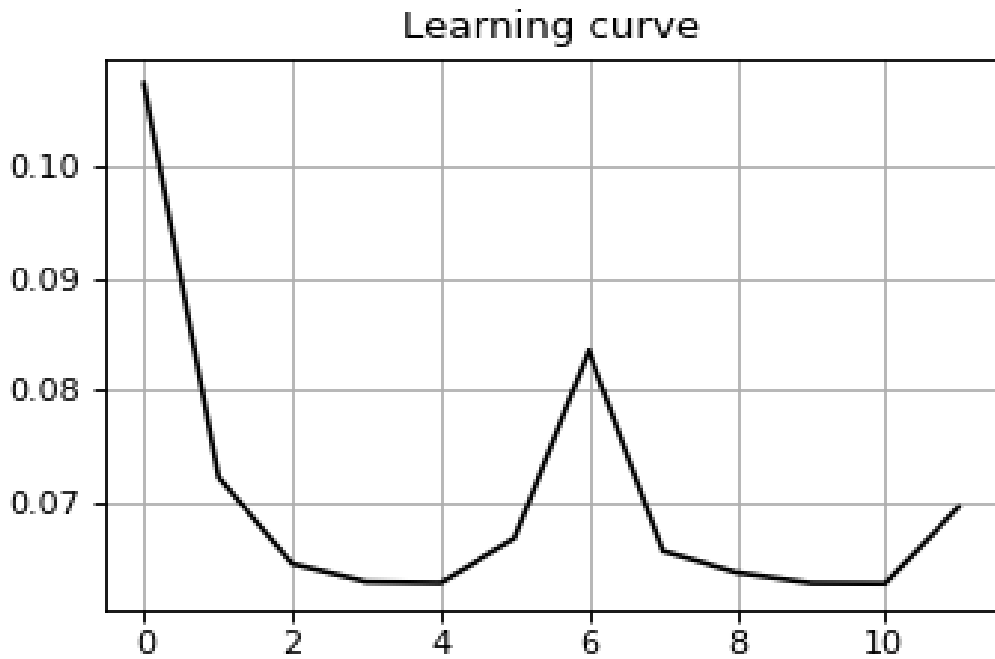


Fig. 2: Learning curve with the introduced database.