Automatic generated report CNET0013.

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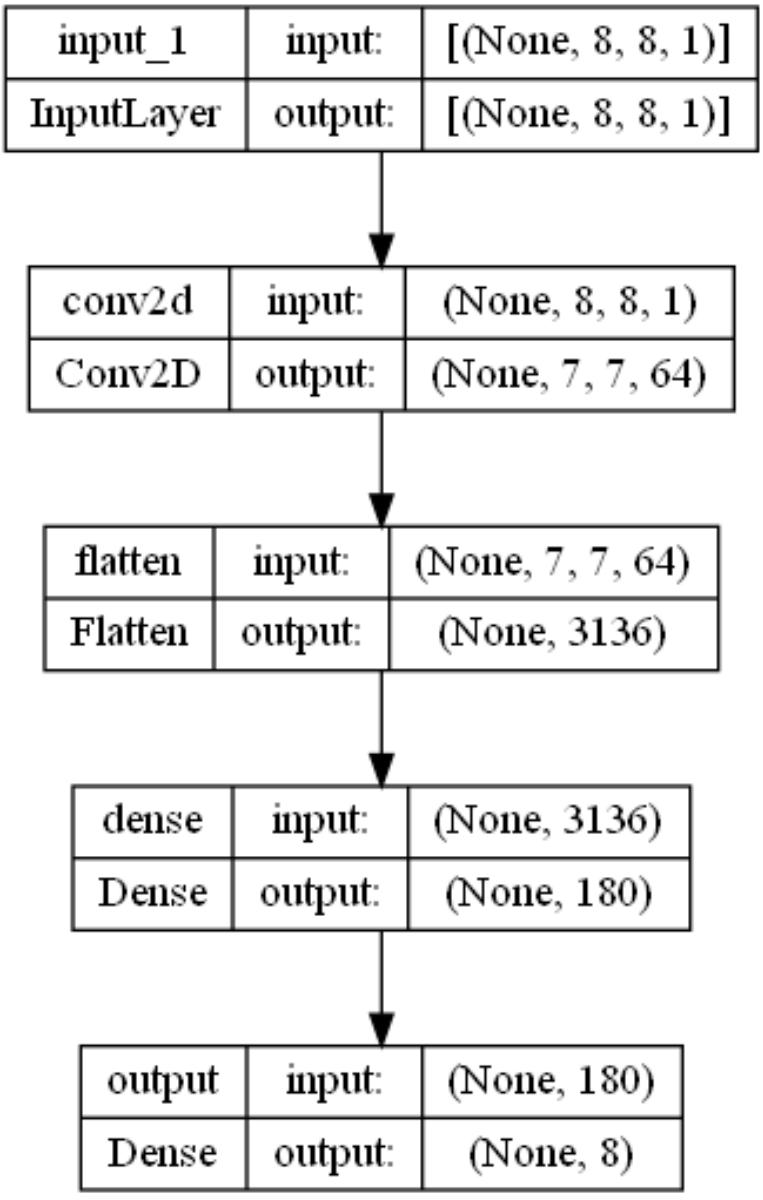

Fig. 1: Model visualization

1 Model

The model has been compiled successfully with the following parameters:

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

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

 output Dense              None, 8                   1448

=================================================================
Total params: 566,428
Trainable params: 566,428
Non-trainable params: 0
_________________________________________________________________
Model: "model"
_________________________________________________________________
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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**: 0.0898, and **minloss**: 0.0626.

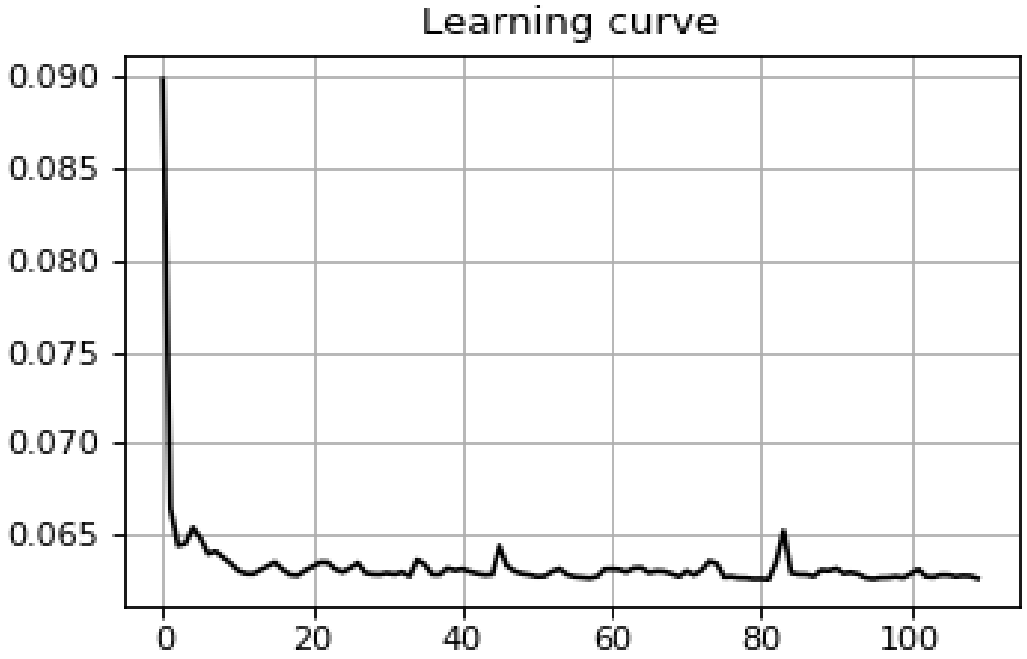

Fig. 2: Learning curve with the introduced database.