

Automatic generated report CNET0047.

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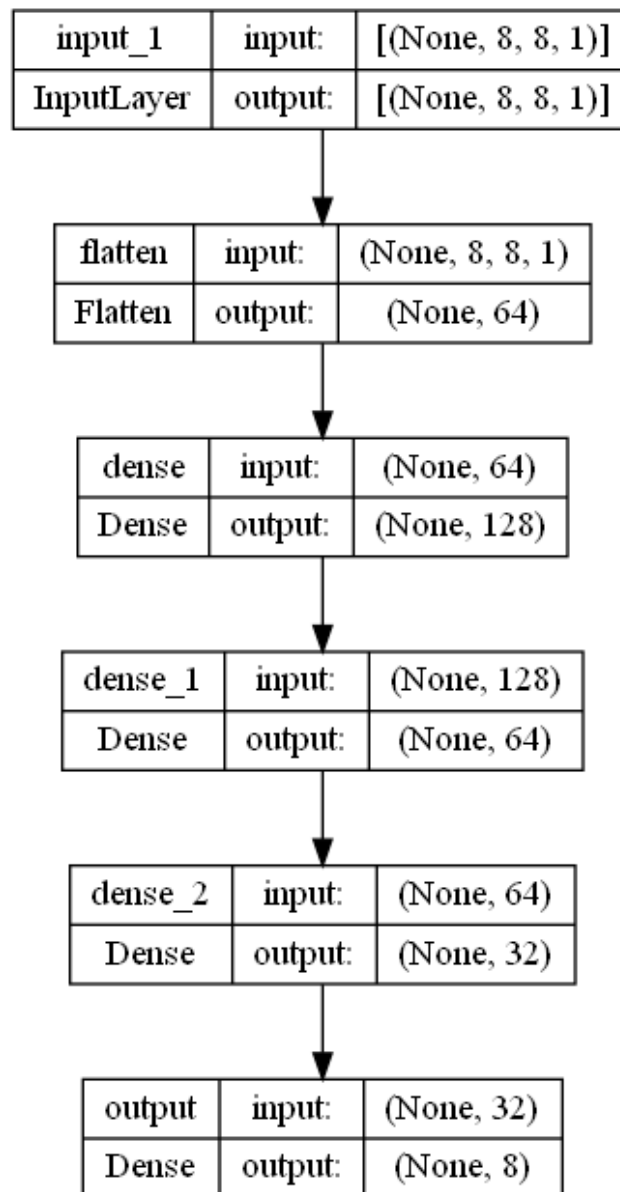


Fig. 1: Model visualization

1 Model

The model has been compiled successfully with the following parameters:

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

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
output Dense	None, 8	264
Total params: 18,920		
Trainable params: 18,920		
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 **wikipedia dataset** was generated with *BaseNetDatabase (BND)* . The training - validation - test distribution is $(0.6999036608863198, 0.15028901734104047,$

0.1498073217726397) and the total size of the database is 132864.

3 Performance

The obtained learning curve is shown below. With **maxloss**: 0.0276, and **minloss**: 0.0255.

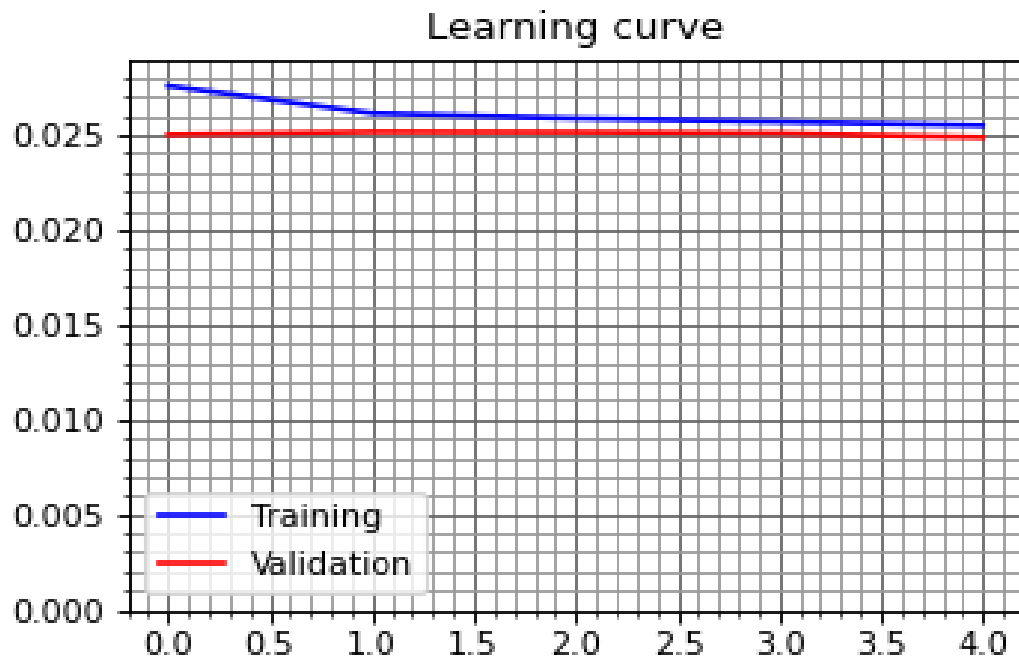


Fig. 2: Learning curve with the introduced database.