

Appendix S4

Summary of the primary model.

| Layer (type) | Output Shape | Param # | Connected to |
|-----------------------------|---------------------|---------|--------------|
| ===== | ===== | ===== | ===== |
| ===== | ===== | ===== | ===== |
| TENSOR_input (InputLayer) | [(None, 221, 351, 0 | | |
| <hr/> | | | |
| conv2d_1 (Conv2D) | (None, 221, 1, 4) | 1408 | |
| TENSOR_input[0][0] | | | |
| <hr/> | | | |
| flatten_1 (Flatten) | (None, 884) | 0 | |
| conv2d_1[0][0] | | | |
| <hr/> | | | |
| VEKTOR_input (InputLayer) | [(None, 37)] | 0 | |
| <hr/> | | | |
| concatenate_1 (Concatenate) | (None, 921) | 0 | |
| flatten_1[0][0] | | | |
| VEKTOR_input[0][0] | | | |
| <hr/> | | | |
| dropout_1 (Dropout) | (None, 921) | 0 | |
| concatenate_1[0][0] | | | |
| <hr/> | | | |
| dense_5 (Dense) | (None, 512) | 472064 | |
| dropout_1[0][0] | | | |

dense_4 (Dense) (None, 256) 131328
dense_5[0][0]

dense_3 (Dense) (None, 128) 32896
dense_4[0][0]

main_output (Dense) (None, 1) 129
dense_3[0][0]

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Total params: 637,825
Trainable params: 637,825
Non-trainable params: 0
