

Model: "sequential_5"

Layer (type)	Output Shape	Param #
simple_rnn (SimpleRNN)	(None, 50)	2600
dense_10 (Dense)	(None, 1)	51

=====
Total params: 2,651
Trainable params: 2,651
Non-trainable params: 0

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Epoch 1/50
22/22 [=====] - 1s 10ms/step - loss: 8.4713 - val_loss: 5.9610
Epoch 2/50
22/22 [=====] - 0s 3ms/step - loss: 4.8006 - val_loss: 1.6961
Epoch 3/50
22/22 [=====] - 0s 3ms/step - loss: 1.1376 - val_loss: 0.3626
Epoch 4/50
22/22 [=====] - 0s 3ms/step - loss: 0.2809 - val_loss: 0.3652
Epoch 5/50
22/22 [=====] - 0s 3ms/step - loss: 0.1990 - val_loss: 0.1136
Epoch 6/50
22/22 [=====] - 0s 3ms/step - loss: 0.1284 - val_loss: 0.0832
Epoch 7/50
22/22 [=====] - 0s 3ms/step - loss: 0.0860 - val_loss: 0.0759
Epoch 8/50
22/22 [=====] - 0s 3ms/step - loss: 0.0820 - val_loss: 0.1984
Epoch 9/50
22/22 [=====] - 0s 3ms/step - loss: 0.0655 - val_loss: 0.0463
Epoch 10/50
22/22 [=====] - 0s 3ms/step - loss: 0.0456 - val_loss: 0.0474
Epoch 11/50
22/22 [=====] - 0s 3ms/step - loss: 0.0418 - val_loss: 0.0599
Epoch 12/50
22/22 [=====] - 0s 3ms/step - loss: 0.0448 - val_loss: 0.0380
Epoch 13/50
22/22 [=====] - 0s 3ms/step - loss: 0.0363 - val_loss: 0.0367
Epoch 14/50
22/22 [=====] - 0s 3ms/step - loss: 0.0343 - val_loss: 0.0324
Epoch 15/50
22/22 [=====] - 0s 3ms/step - loss: 0.0385 - val_loss: 0.0477
Epoch 16/50
22/22 [=====] - 0s 3ms/step - loss: 0.0311 - val_loss: 0.0311
Epoch 17/50
22/22 [=====] - 0s 3ms/step - loss: 0.0274 - val_loss: 0.0564
Epoch 18/50
22/22 [=====] - 0s 3ms/step - loss: 0.0354 - val_loss: 0.0298
Epoch 19/50
22/22 [=====] - 0s 3ms/step - loss: 0.0348 - val_loss: 0.0395
Epoch 20/50
22/22 [=====] - 0s 3ms/step - loss: 0.0268 - val_loss: 0.0294
Epoch 21/50
22/22 [=====] - 0s 3ms/step - loss: 0.0245 - val_loss: 0.0400
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Epoch 22/50
22/22 [=====] - 0s 3ms/step - loss: 0.0278 - val_loss: 0.0284
Epoch 23/50
22/22 [=====] - 0s 3ms/step - loss: 0.0289 - val_loss: 0.0306
Epoch 24/50
22/22 [=====] - 0s 3ms/step - loss: 0.0252 - val_loss: 0.0652
Epoch 25/50
22/22 [=====] - 0s 3ms/step - loss: 0.0296 - val_loss: 0.0413
Epoch 26/50
22/22 [=====] - 0s 3ms/step - loss: 0.0276 - val_loss: 0.0303
Epoch 27/50
22/22 [=====] - 0s 3ms/step - loss: 0.0247 - val_loss: 0.0342
Epoch 28/50
22/22 [=====] - 0s 3ms/step - loss: 0.0274 - val_loss: 0.0582
Epoch 29/50
22/22 [=====] - 0s 3ms/step - loss: 0.0268 - val_loss: 0.0272
Epoch 30/50
22/22 [=====] - 0s 3ms/step - loss: 0.0232 - val_loss: 0.0304
Epoch 31/50
22/22 [=====] - 0s 3ms/step - loss: 0.0197 - val_loss: 0.0304
Epoch 32/50
22/22 [=====] - 0s 3ms/step - loss: 0.0239 - val_loss: 0.0263
Epoch 33/50
22/22 [=====] - 0s 3ms/step - loss: 0.0194 - val_loss: 0.0269
Epoch 34/50
22/22 [=====] - 0s 3ms/step - loss: 0.0200 - val_loss: 0.0264
Epoch 35/50
22/22 [=====] - 0s 3ms/step - loss: 0.0202 - val_loss: 0.0302
Epoch 36/50
22/22 [=====] - 0s 3ms/step - loss: 0.0180 - val_loss: 0.0275
Epoch 37/50
22/22 [=====] - 0s 3ms/step - loss: 0.0195 - val_loss: 0.0287
Epoch 38/50
22/22 [=====] - 0s 3ms/step - loss: 0.0215 - val_loss: 0.0266
Epoch 39/50
22/22 [=====] - 0s 3ms/step - loss: 0.0195 - val_loss: 0.0237
Epoch 40/50
22/22 [=====] - 0s 3ms/step - loss: 0.0278 - val_loss: 0.0275
Epoch 41/50
22/22 [=====] - 0s 3ms/step - loss: 0.0218 - val_loss: 0.0255
Epoch 42/50
22/22 [=====] - 0s 3ms/step - loss: 0.0218 - val_loss: 0.0289
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Epoch 43/50
22/22 [=====] - 0s 3ms/step - loss: 0.0246 - val_loss: 0.0259
Epoch 44/50
22/22 [=====] - 0s 3ms/step - loss: 0.0156 - val_loss: 0.0232
Epoch 45/50
22/22 [=====] - 0s 3ms/step - loss: 0.0158 - val_loss: 0.0303
Epoch 46/50
22/22 [=====] - 0s 3ms/step - loss: 0.0234 - val_loss: 0.0266
Epoch 47/50
22/22 [=====] - 0s 3ms/step - loss: 0.0216 - val_loss: 0.0560
Epoch 48/50
22/22 [=====] - 0s 3ms/step - loss: 0.0198 - val_loss: 0.0245
Epoch 49/50
22/22 [=====] - 0s 3ms/step - loss: 0.0153 - val_loss: 0.0433
Epoch 50/50
22/22 [=====] - 0s 3ms/step - loss: 0.0178 - val_loss: 0.0294
7/7 [=====] - 0s 1ms/step - loss: 0.0355
Test Loss: 0.0355
7/7 [=====] - 0s 1ms/step
Test Accuracy (R^2): 0.9962
1/1 [=====] - 0s 15ms/step
Predictions for new data:
[[ 1.7365594 ]
 [ 0.2775093 ]
 [-2.2043355 ]
 [-0.60429496]
 [-3.8232155 ]]
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