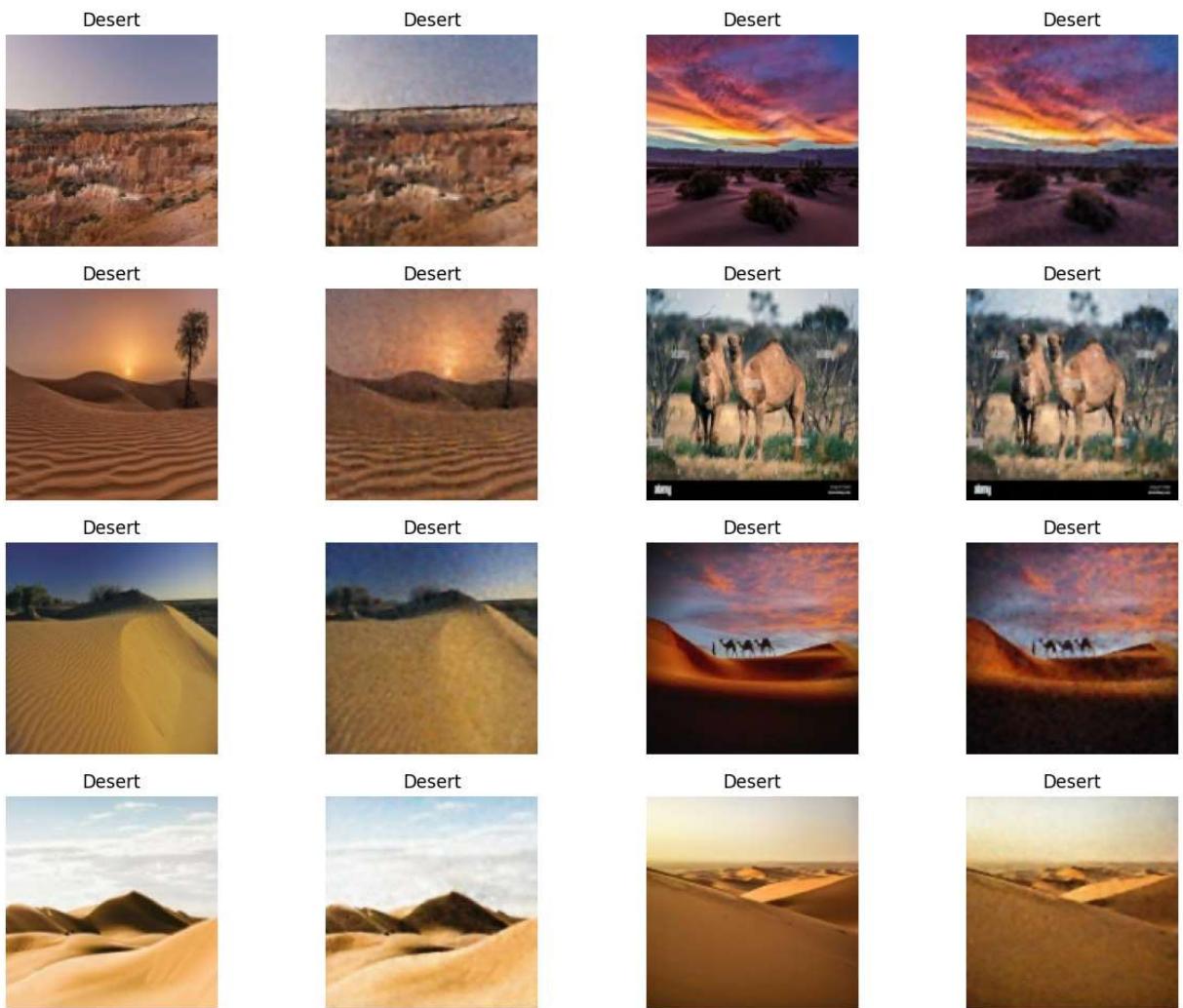
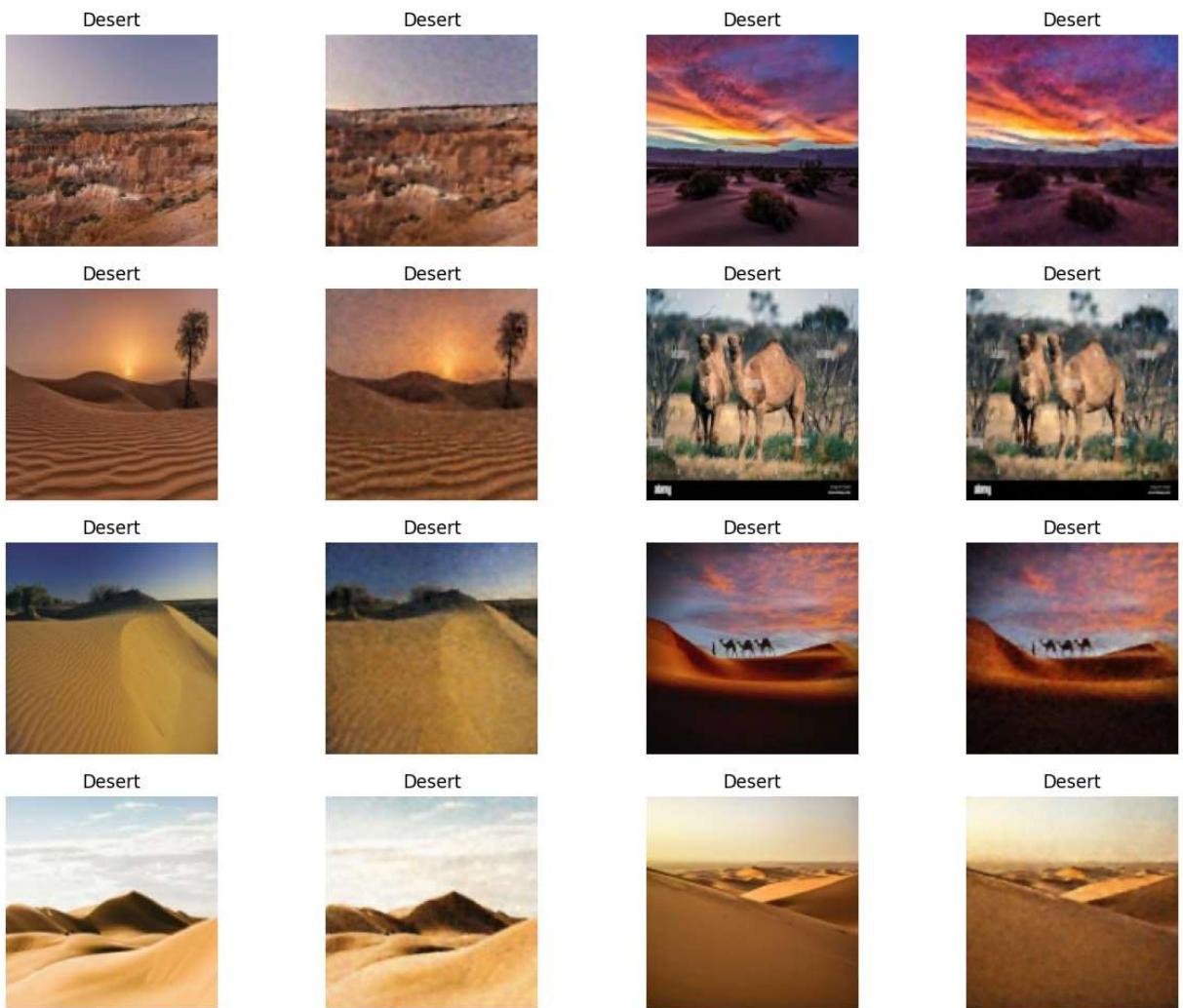


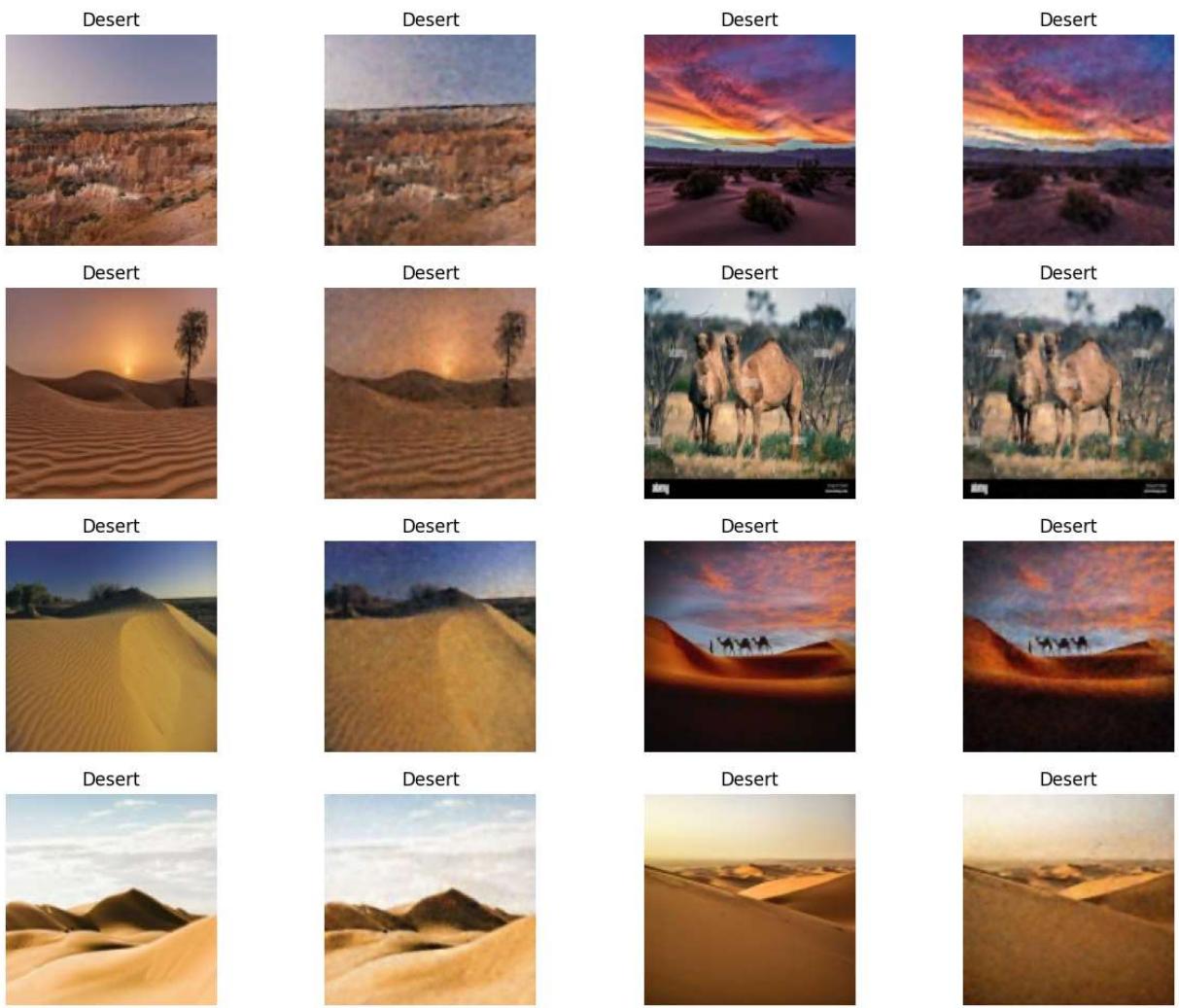
```
120/120 [=====] - 19s 159ms/step - loss: 152.0831 - reconstruction_error: 2.1695 - regularization_error: 86.9983 - val_loss: 861.0742 - val_reconstruction_error: 25.9057 - val_regularization_error: 83.9027
Epoch 502/1000
120/120 [=====] - 17s 142ms/step - loss: 149.8176 - reconstruction_error: 2.1087 - regularization_error: 86.5562 - val_loss: 852.4455 - val_reconstruction_error: 25.7615 - val_regularization_error: 79.6006
Epoch 503/1000
120/120 [=====] - 15s 127ms/step - loss: 150.5212 - reconstruction_error: 2.1322 - regularization_error: 86.5543 - val_loss: 856.5881 - val_reconstruction_error: 25.7686 - val_regularization_error: 83.5306
Epoch 504/1000
120/120 [=====] - 14s 117ms/step - loss: 157.9375 - reconstruction_error: 2.3454 - regularization_error: 87.5765 - val_loss: 872.5315 - val_reconstruction_error: 26.2895 - val_regularization_error: 83.8455
Epoch 505/1000
120/120 [=====] - 14s 119ms/step - loss: 152.9003 - reconstruction_error: 2.1935 - regularization_error: 87.0957 - val_loss: 858.1487 - val_reconstruction_error: 25.9005 - val_regularization_error: 81.1333
Epoch 506/1000
120/120 [=====] - 17s 139ms/step - loss: 150.8658 - reconstruction_error: 2.1290 - regularization_error: 86.9957 - val_loss: 852.0419 - val_reconstruction_error: 25.6320 - val_regularization_error: 83.0829
Epoch 507/1000
120/120 [=====] - 15s 126ms/step - loss: 151.3645 - reconstruction_error: 2.1466 - regularization_error: 86.9660 - val_loss: 853.7318 - val_reconstruction_error: 25.7496 - val_regularization_error: 81.2436
Epoch 508/1000
120/120 [=====] - 18s 151ms/step - loss: 151.0960 - reconstruction_error: 2.1360 - regularization_error: 87.0147 - val_loss: 870.7025 - val_reconstruction_error: 26.3391 - val_regularization_error: 80.5297
Epoch 509/1000
120/120 [=====] - 15s 125ms/step - loss: 151.1226 - reconstruction_error: 2.1456 - regularization_error: 86.7535 - val_loss: 853.1937 - val_reconstruction_error: 25.6979 - val_regularization_error: 82.2566
Epoch 510/1000
120/120 [=====] - 16s 129ms/step - loss: 152.9072 - reconstruction_error: 2.1983 - regularization_error: 86.9580 - val_loss: 862.5178 - val_reconstruction_error: 26.0284 - val_regularization_error: 81.6672
Epoch 511/1000
120/120 [=====] - ETA: 0s - loss: 153.5447 - reconstruction_error: 2.2141 - regularization_error: 87.1209
[2023-12-03 00:06:34.519382]: Reconstructing images for epoch 511 ...
```



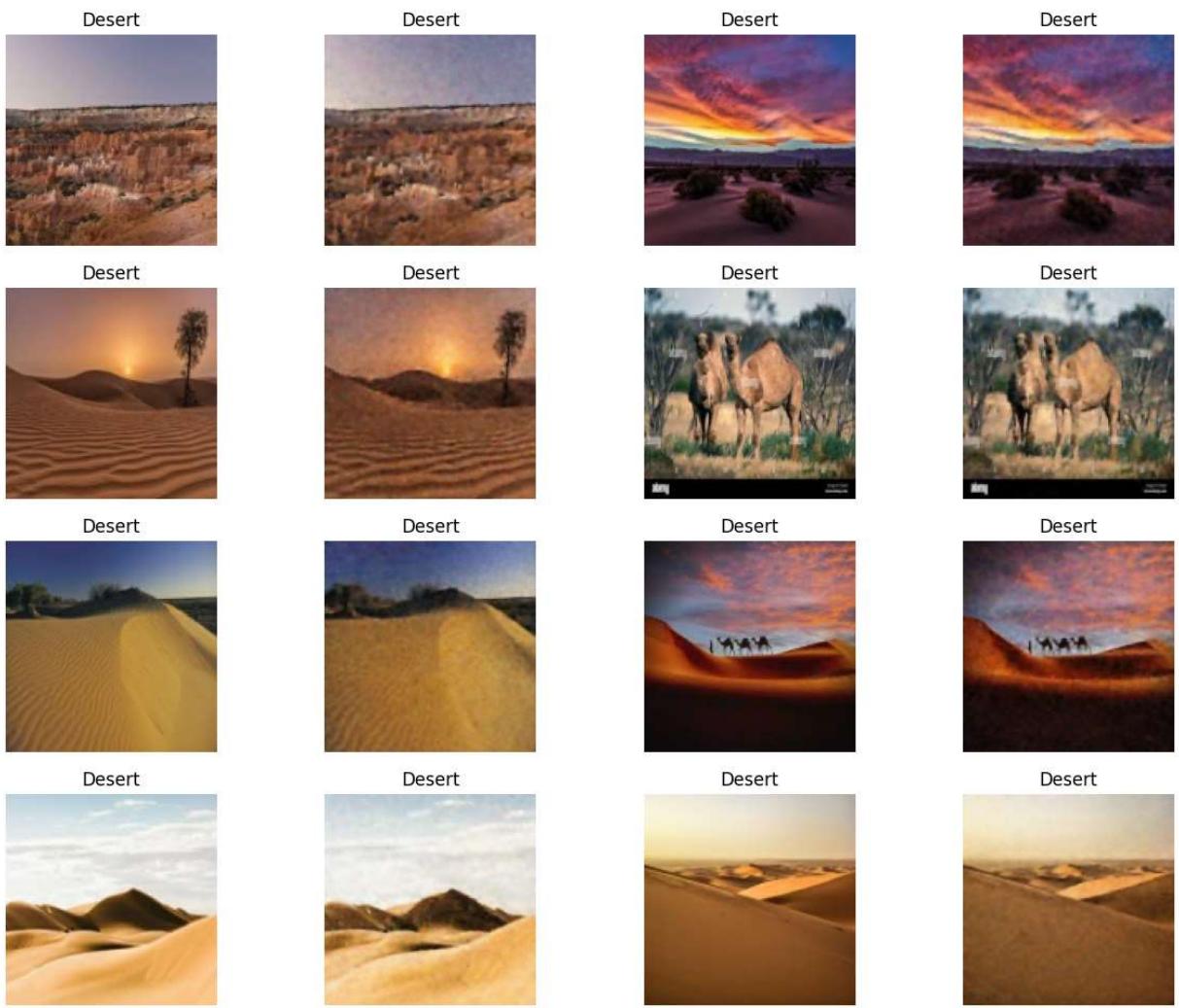
```
120/120 [=====] - 18s 150ms/step - loss: 153.5447 - reconstruction_error: 2.2141 - regularization_error: 87.1209 - val_loss: 869.9493 - val_reconstruction_error: 26.2538 - val_regularization_error: 82.3344
Epoch 512/1000
120/120 [=====] - 15s 128ms/step - loss: 151.1864 - reconstruction_error: 2.1310 - regularization_error: 87.2578 - val_loss: 854.4192 - val_reconstruction_error: 25.7220 - val_regularization_error: 82.7605
Epoch 513/1000
120/120 [=====] - 15s 123ms/step - loss: 149.6523 - reconstruction_error: 2.1094 - regularization_error: 86.3692 - val_loss: 855.3153 - val_reconstruction_error: 25.7449 - val_regularization_error: 82.9694
Epoch 514/1000
120/120 [=====] - 18s 147ms/step - loss: 151.1267 - reconstruction_error: 2.1379 - regularization_error: 86.9894 - val_loss: 852.2990 - val_reconstruction_error: 25.7499 - val_regularization_error: 79.8033
Epoch 515/1000
120/120 [=====] - 17s 141ms/step - loss: 150.9067 - reconstruction_error: 2.1365 - regularization_error: 86.8117 - val_loss: 863.2894 - val_reconstruction_error: 26.1197 - val_regularization_error: 79.6976
Epoch 516/1000
120/120 [=====] - 15s 127ms/step - loss: 152.3313 - reconstruction_error: 2.1827 - regularization_error: 86.8496 - val_loss: 854.5003 - val_reconstruction_error: 25.7393 - val_regularization_error: 82.3202
Epoch 517/1000
120/120 [=====] - 15s 123ms/step - loss: 152.3240 - reconstruction_error: 2.1714 - regularization_error: 87.1829 - val_loss: 866.6182 - val_reconstruction_error: 26.2013 - val_regularization_error: 80.5792
Epoch 518/1000
120/120 [=====] - 16s 129ms/step - loss: 149.8178 - reconstruction_error: 2.1087 - regularization_error: 86.5582 - val_loss: 863.2195 - val_reconstruction_error: 26.0856 - val_regularization_error: 80.6505
Epoch 519/1000
120/120 [=====] - 16s 135ms/step - loss: 151.1679 - reconstruction_error: 2.1407 - regularization_error: 86.9464 - val_loss: 857.2413 - val_reconstruction_error: 25.8002 - val_regularization_error: 83.2350
Epoch 520/1000
120/120 [=====] - 18s 153ms/step - loss: 151.7709 - reconstruction_error: 2.1668 - regularization_error: 86.7678 - val_loss: 870.7550 - val_reconstruction_error: 26.2657 - val_regularization_error: 82.7833
Epoch 521/1000
120/120 [=====] - ETA: 0s - loss: 150.6377 - reconstruction_error: 2.1376 - regularization_error: 86.5095
[2023-12-03 00:09:21.931506]: Reconstructing images for epoch 521 ...
```



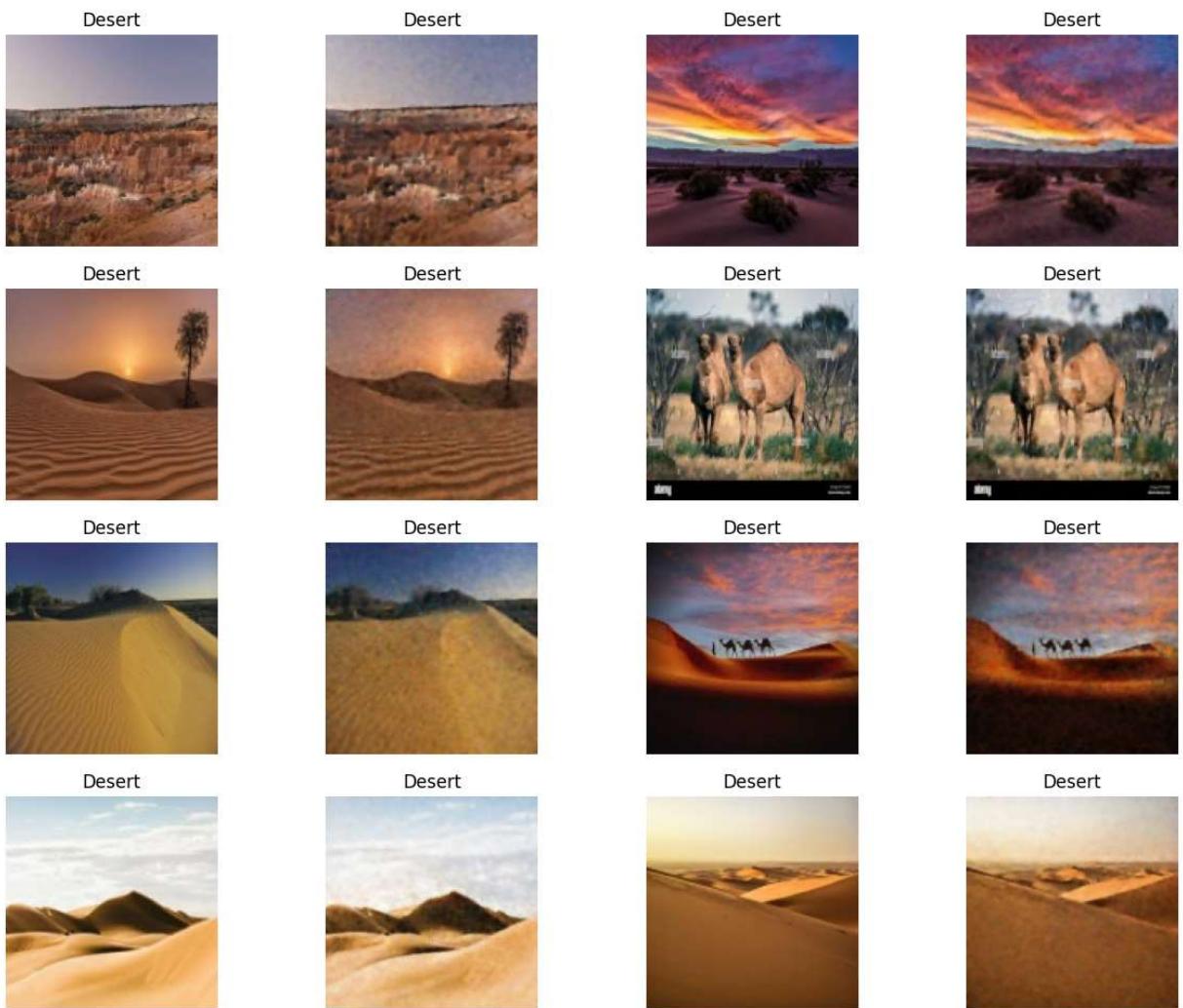
```
120/120 [=====] - 20s 169ms/step - loss: 150.6377 - reconstruction_error: 2.1376 - regularization_error: 86.5095 - val_loss: 857.9302 - val_reconstruction_error: 25.8498 - val_regularization_error: 82.4368
Epoch 522/1000
120/120 [=====] - 17s 139ms/step - loss: 152.1869 - reconstruction_error: 2.1805 - regularization_error: 86.7729 - val_loss: 856.8420 - val_reconstruction_error: 25.8227 - val_regularization_error: 82.1622
Epoch 523/1000
120/120 [=====] - 18s 151ms/step - loss: 149.7104 - reconstruction_error: 2.0980 - regularization_error: 86.7698 - val_loss: 859.0865 - val_reconstruction_error: 26.0008 - val_regularization_error: 79.0636
Epoch 524/1000
120/120 [=====] - 15s 125ms/step - loss: 149.9670 - reconstruction_error: 2.1166 - regularization_error: 86.4703 - val_loss: 854.2369 - val_reconstruction_error: 25.7676 - val_regularization_error: 81.2095
Epoch 525/1000
120/120 [=====] - 15s 122ms/step - loss: 151.2756 - reconstruction_error: 2.1457 - regularization_error: 86.9037 - val_loss: 857.1876 - val_reconstruction_error: 25.8713 - val_regularization_error: 81.0472
Epoch 526/1000
120/120 [=====] - 18s 145ms/step - loss: 149.8135 - reconstruction_error: 2.1048 - regularization_error: 86.6707 - val_loss: 856.9456 - val_reconstruction_error: 25.8818 - val_regularization_error: 80.4908
Epoch 527/1000
120/120 [=====] - 16s 131ms/step - loss: 152.2710 - reconstruction_error: 2.1871 - regularization_error: 86.6594 - val_loss: 875.0707 - val_reconstruction_error: 26.4650 - val_regularization_error: 81.1202
Epoch 528/1000
120/120 [=====] - 19s 153ms/step - loss: 149.1031 - reconstruction_error: 2.0963 - regularization_error: 86.2149 - val_loss: 863.4844 - val_reconstruction_error: 26.0329 - val_regularization_error: 82.4963
Epoch 529/1000
120/120 [=====] - 15s 128ms/step - loss: 151.6884 - reconstruction_error: 2.1607 - regularization_error: 86.8663 - val_loss: 870.4305 - val_reconstruction_error: 26.3239 - val_regularization_error: 80.7136
Epoch 530/1000
120/120 [=====] - 15s 122ms/step - loss: 150.5878 - reconstruction_error: 2.1327 - regularization_error: 86.6064 - val_loss: 854.1169 - val_reconstruction_error: 25.7675 - val_regularization_error: 81.0917
Epoch 531/1000
120/120 [=====] - ETA: 0s - loss: 152.8060 - reconstruction_error: 2.1906 - regularization_error: 87.0878
[2023-12-03 00:12:07.255307]: Reconstructing images for epoch 531 ...
```



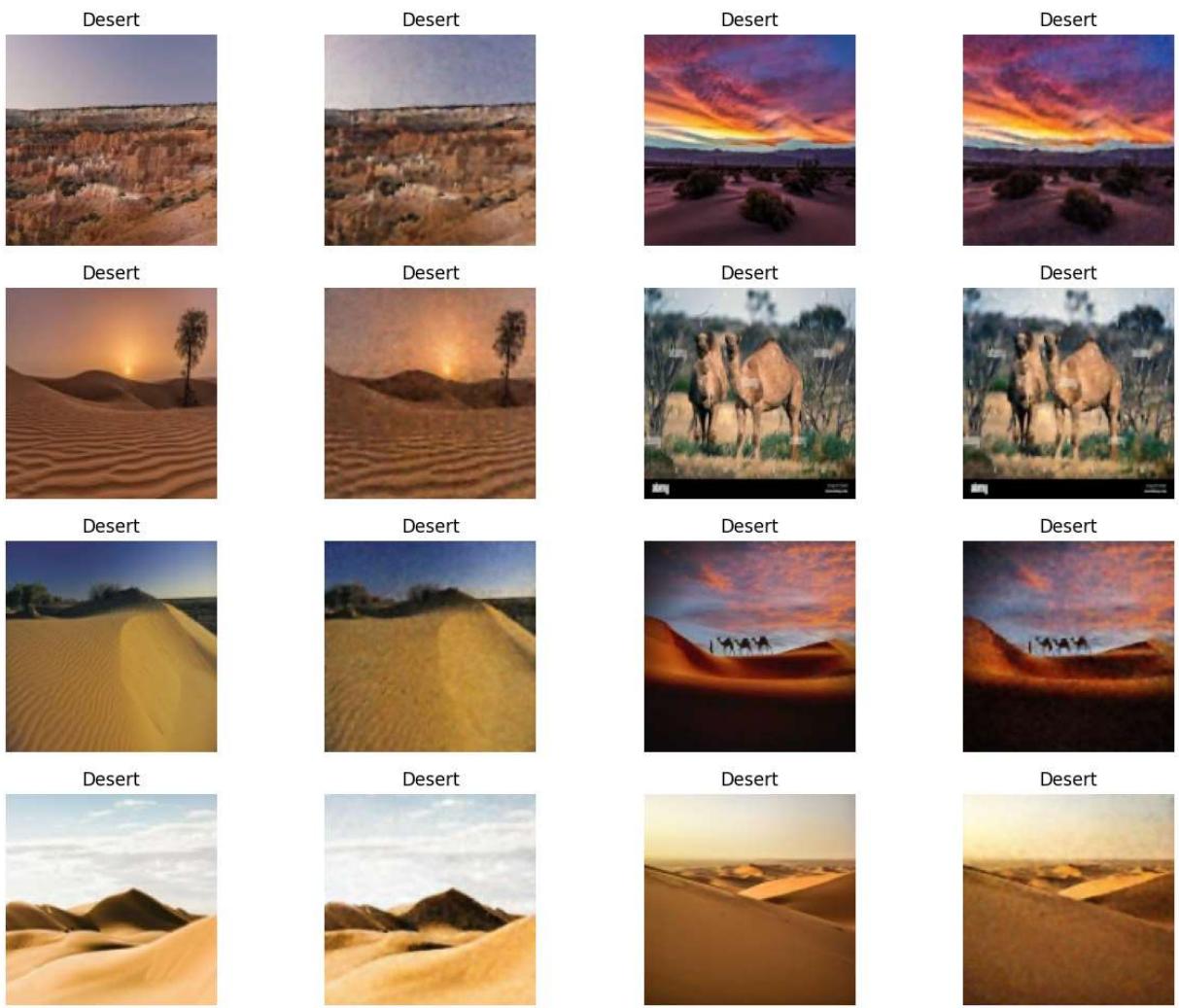
```
120/120 [=====] - 18s 144ms/step - loss: 152.8060 - reconstruction_error: 2.1906 - regularization_error: 87.0878 - val_loss: 856.4382 - val_reconstruction_error: 25.9389 - val_regularization_error: 78.2712
Epoch 532/1000
120/120 [=====] - 17s 140ms/step - loss: 151.0334 - reconstruction_error: 2.1404 - regularization_error: 86.8208 - val_loss: 860.0156 - val_reconstruction_error: 25.9930 - val_regularization_error: 80.2260
Epoch 533/1000
120/120 [=====] - 16s 135ms/step - loss: 151.3035 - reconstruction_error: 2.1552 - regularization_error: 86.6474 - val_loss: 854.6781 - val_reconstruction_error: 25.8460 - val_regularization_error: 79.2982
Epoch 534/1000
120/120 [=====] - 15s 121ms/step - loss: 148.6440 - reconstruction_error: 2.0921 - regularization_error: 85.8819 - val_loss: 870.5391 - val_reconstruction_error: 26.2082 - val_regularization_error: 84.2946
Epoch 535/1000
120/120 [=====] - 17s 138ms/step - loss: 151.2579 - reconstruction_error: 2.1493 - regularization_error: 86.7785 - val_loss: 855.4653 - val_reconstruction_error: 25.7043 - val_regularization_error: 84.3358
Epoch 536/1000
120/120 [=====] - 18s 148ms/step - loss: 156.1044 - reconstruction_error: 2.2885 - regularization_error: 87.4506 - val_loss: 863.8939 - val_reconstruction_error: 25.9762 - val_regularization_error: 84.6081
Epoch 537/1000
120/120 [=====] - 15s 120ms/step - loss: 150.8351 - reconstruction_error: 2.1318 - regularization_error: 86.8806 - val_loss: 867.7958 - val_reconstruction_error: 26.2065 - val_regularization_error: 81.6006
Epoch 538/1000
120/120 [=====] - 16s 127ms/step - loss: 149.7141 - reconstruction_error: 2.1049 - regularization_error: 86.5677 - val_loss: 861.2966 - val_reconstruction_error: 25.9981 - val_regularization_error: 81.3522
Epoch 539/1000
120/120 [=====] - 17s 143ms/step - loss: 149.5180 - reconstruction_error: 2.1035 - regularization_error: 86.4123 - val_loss: 859.1475 - val_reconstruction_error: 25.9469 - val_regularization_error: 80.7417
Epoch 540/1000
120/120 [=====] - 16s 130ms/step - loss: 151.1862 - reconstruction_error: 2.1448 - regularization_error: 86.8437 - val_loss: 849.8249 - val_reconstruction_error: 25.6403 - val_regularization_error: 80.6150
Epoch 541/1000
120/120 [=====] - ETA: 0s - loss: 150.3108 - reconstruction_error: 2.1265 - regularization_error: 86.5161
[2023-12-03 00:14:56.472195]: Reconstructing images for epoch 541 ...
```



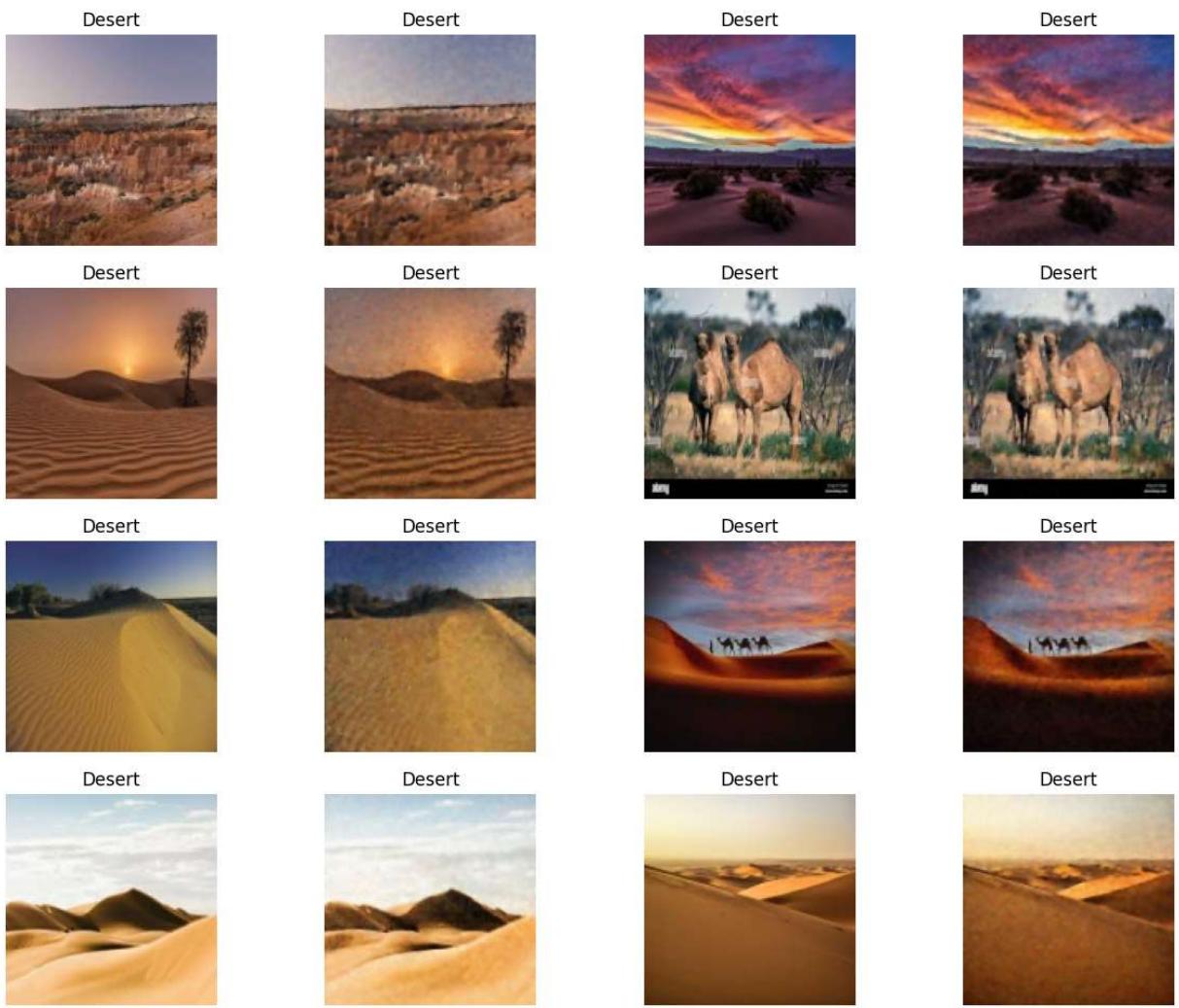
```
120/120 [=====] - 19s 160ms/step - loss: 150.3108 - reconstruction_error: 2.1265 - regularization_error: 86.5161 - val_loss: 863.0144 - val_reconstruction_error: 26.1124 - val_regularization_error: 79.6430
Epoch 542/1000
120/120 [=====] - 18s 151ms/step - loss: 150.5073 - reconstruction_error: 2.1398 - regularization_error: 86.3121 - val_loss: 857.6582 - val_reconstruction_error: 25.9283 - val_regularization_error: 79.8107
Epoch 543/1000
120/120 [=====] - 15s 127ms/step - loss: 152.8243 - reconstruction_error: 2.1912 - regularization_error: 87.0871 - val_loss: 872.5315 - val_reconstruction_error: 26.5499 - val_regularization_error: 76.0331
Epoch 544/1000
120/120 [=====] - 18s 146ms/step - loss: 153.5033 - reconstruction_error: 2.2148 - regularization_error: 87.0581 - val_loss: 856.4929 - val_reconstruction_error: 25.8230 - val_regularization_error: 81.8020
Epoch 545/1000
120/120 [=====] - 14s 117ms/step - loss: 149.4964 - reconstruction_error: 2.0996 - regularization_error: 86.5088 - val_loss: 863.1125 - val_reconstruction_error: 26.0544 - val_regularization_error: 81.4817
Epoch 546/1000
120/120 [=====] - 18s 150ms/step - loss: 148.4987 - reconstruction_error: 2.0765 - regularization_error: 86.2035 - val_loss: 857.2275 - val_reconstruction_error: 25.7805 - val_regularization_error: 83.8111
Epoch 547/1000
120/120 [=====] - 18s 151ms/step - loss: 149.0415 - reconstruction_error: 2.0836 - regularization_error: 86.5327 - val_loss: 860.8602 - val_reconstruction_error: 25.9933 - val_regularization_error: 81.0610
Epoch 548/1000
120/120 [=====] - 17s 141ms/step - loss: 148.9776 - reconstruction_error: 2.0825 - regularization_error: 86.5032 - val_loss: 865.1849 - val_reconstruction_error: 26.0921 - val_regularization_error: 82.4204
Epoch 549/1000
120/120 [=====] - 16s 133ms/step - loss: 150.8998 - reconstruction_error: 2.1347 - regularization_error: 86.8582 - val_loss: 873.0621 - val_reconstruction_error: 26.3897 - val_regularization_error: 81.3700
Epoch 550/1000
120/120 [=====] - 19s 158ms/step - loss: 152.3665 - reconstruction_error: 2.1873 - regularization_error: 86.7475 - val_loss: 898.7191 - val_reconstruction_error: 27.2963 - val_regularization_error: 79.8303
Epoch 551/1000
120/120 [=====] - ETA: 0s - loss: 150.1839 - reconstruction_error: 2.1147 - regularization_error: 86.7421
[2023-12-03 00:17:51.088624]: Reconstructing images for epoch 551 ...
```



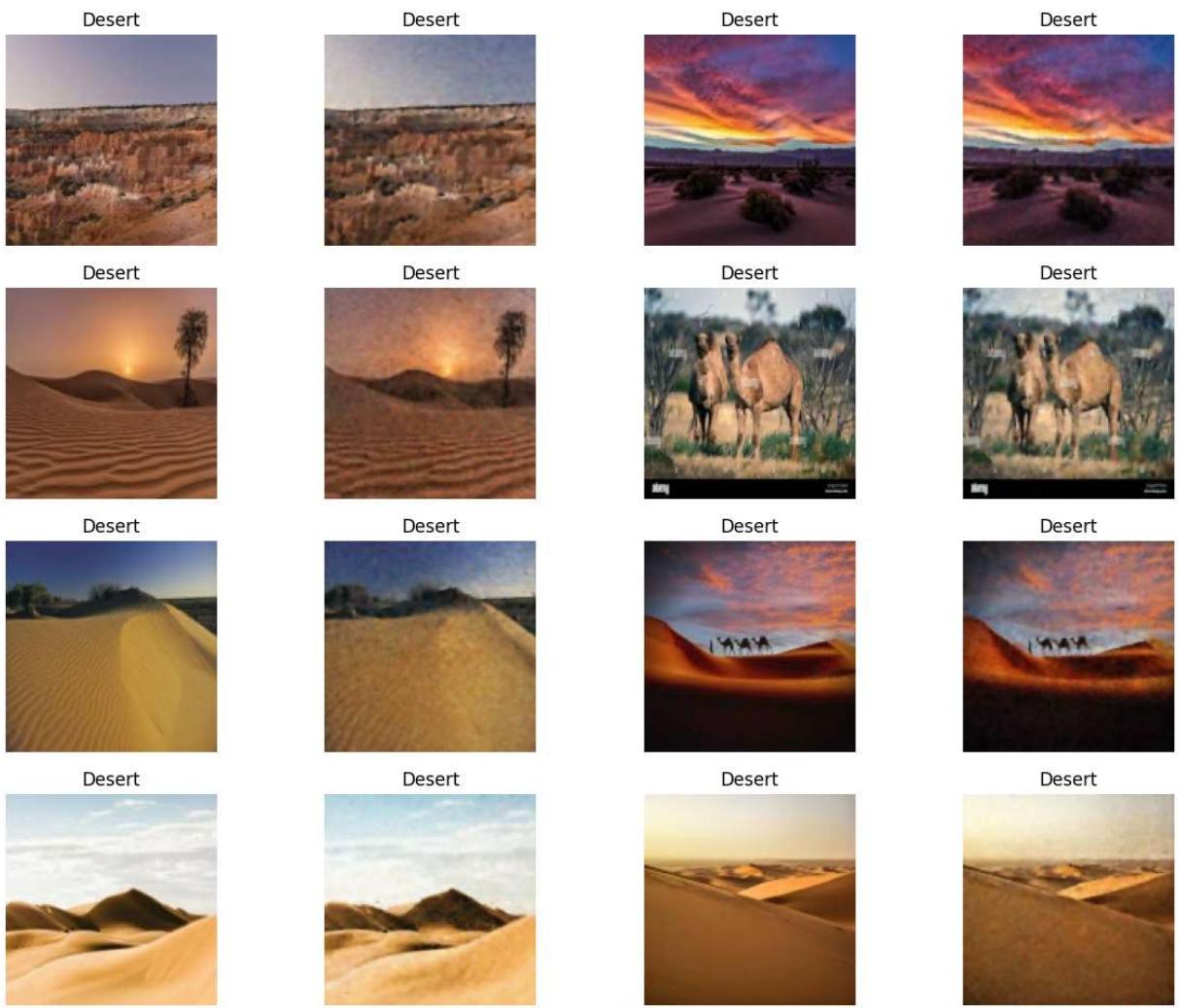
```
120/120 [=====] - 20s 166ms/step - loss: 150.1839 - reconstruction_error: 2.1147 - regularization_error: 86.7421 - val_loss: 869.1155 - val_reconstruction_error: 26.3734 - val_regularization_error: 77.9133
Epoch 552/1000
120/120 [=====] - 14s 118ms/step - loss: 152.4869 - reconstruction_error: 2.1863 - regularization_error: 86.8987 - val_loss: 859.4233 - val_reconstruction_error: 25.9596 - val_regularization_error: 80.6351
Epoch 553/1000
120/120 [=====] - 18s 147ms/step - loss: 148.6852 - reconstruction_error: 2.0790 - regularization_error: 86.3163 - val_loss: 859.2684 - val_reconstruction_error: 25.9579 - val_regularization_error: 80.5303
Epoch 554/1000
120/120 [=====] - 15s 124ms/step - loss: 148.8977 - reconstruction_error: 2.0870 - regularization_error: 86.2891 - val_loss: 877.8655 - val_reconstruction_error: 26.5506 - val_regularization_error: 81.3482
Epoch 555/1000
120/120 [=====] - 16s 132ms/step - loss: 149.6058 - reconstruction_error: 2.1116 - regularization_error: 86.2584 - val_loss: 864.0593 - val_reconstruction_error: 26.0459 - val_regularization_error: 82.6814
Epoch 556/1000
120/120 [=====] - 15s 123ms/step - loss: 149.8830 - reconstruction_error: 2.1274 - regularization_error: 86.0619 - val_loss: 876.3193 - val_reconstruction_error: 26.4870 - val_regularization_error: 81.7105
Epoch 557/1000
120/120 [=====] - 15s 123ms/step - loss: 149.3331 - reconstruction_error: 2.1007 - regularization_error: 86.3129 - val_loss: 858.9281 - val_reconstruction_error: 25.9337 - val_regularization_error: 80.9182
Epoch 558/1000
120/120 [=====] - 17s 138ms/step - loss: 149.8234 - reconstruction_error: 2.1141 - regularization_error: 86.4000 - val_loss: 862.5536 - val_reconstruction_error: 26.0885 - val_regularization_error: 79.8990
Epoch 559/1000
120/120 [=====] - 16s 131ms/step - loss: 148.4489 - reconstruction_error: 2.0803 - regularization_error: 86.0406 - val_loss: 854.4880 - val_reconstruction_error: 25.7429 - val_regularization_error: 82.2012
Epoch 560/1000
120/120 [=====] - 17s 137ms/step - loss: 148.2437 - reconstruction_error: 2.0727 - regularization_error: 86.0637 - val_loss: 860.5632 - val_reconstruction_error: 26.0130 - val_regularization_error: 80.1737
Epoch 561/1000
120/120 [=====] - ETA: 0s - loss: 148.2619 - reconstruction_error: 2.0770 - regularization_error: 85.9528
[2023-12-03 00:20:36.402890]: Reconstructing images for epoch 561 ...
```



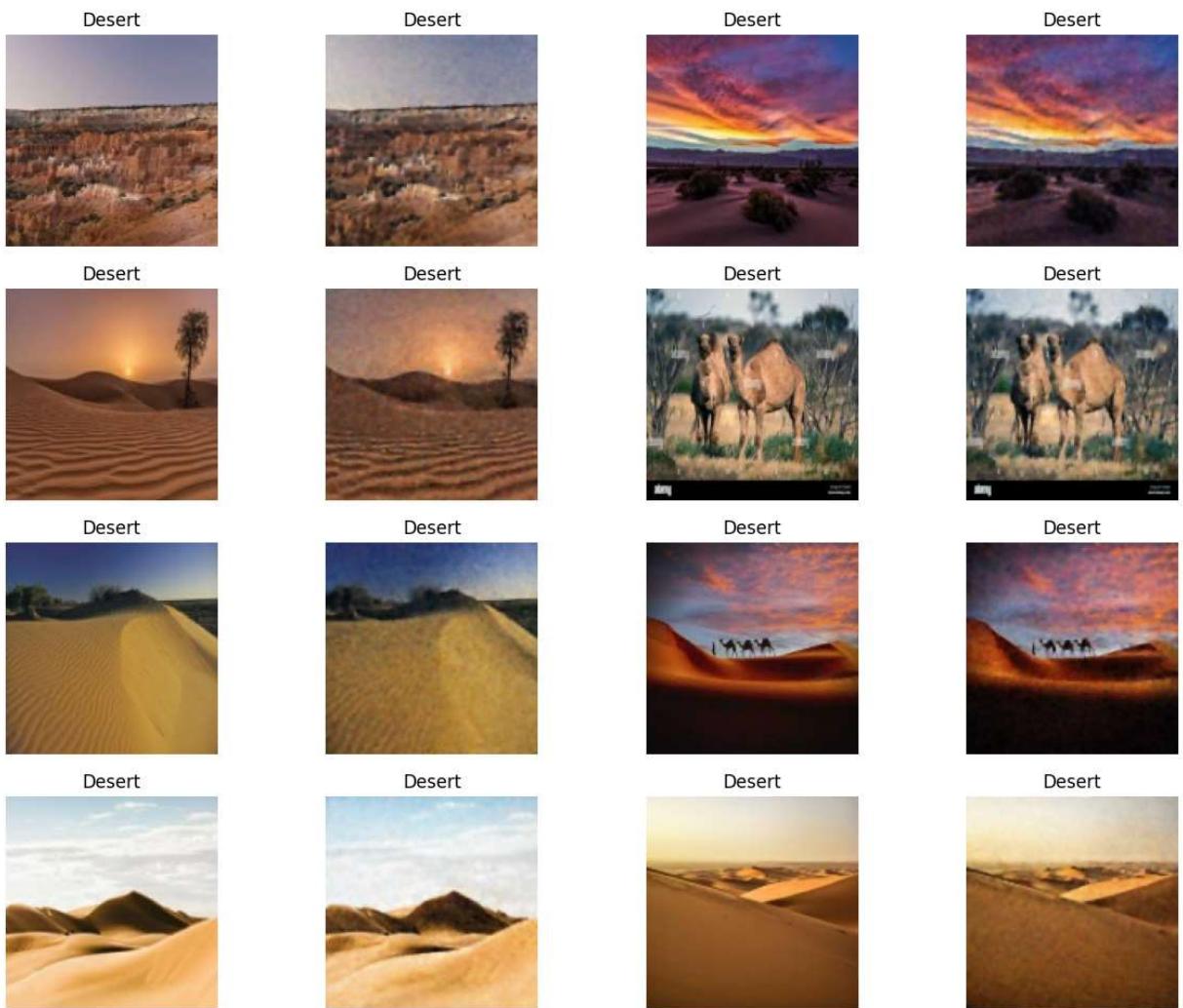
```
120/120 [=====] - 21s 173ms/step - loss: 148.2619 - reconstruction_error: 2.0770 - regularization_error: 85.9528 - val_loss: 856.6065 - val_reconstruction_error: 25.7351 - val_regularization_error: 84.5528
Epoch 562/1000
120/120 [=====] - 15s 127ms/step - loss: 148.6930 - reconstruction_error: 2.0760 - regularization_error: 86.4129 - val_loss: 865.9304 - val_reconstruction_error: 26.0623 - val_regularization_error: 84.0610
Epoch 563/1000
120/120 [=====] - 14s 118ms/step - loss: 149.0132 - reconstruction_error: 2.0830 - regularization_error: 86.5236 - val_loss: 864.8725 - val_reconstruction_error: 26.1235 - val_regularization_error: 81.1686
Epoch 564/1000
120/120 [=====] - 17s 143ms/step - loss: 149.7047 - reconstruction_error: 2.1162 - regularization_error: 86.2186 - val_loss: 865.9529 - val_reconstruction_error: 26.2124 - val_regularization_error: 79.5803
Epoch 565/1000
120/120 [=====] - 17s 138ms/step - loss: 148.6888 - reconstruction_error: 2.0812 - regularization_error: 86.2516 - val_loss: 872.7825 - val_reconstruction_error: 26.4037 - val_regularization_error: 80.6700
Epoch 566/1000
120/120 [=====] - 17s 141ms/step - loss: 148.7574 - reconstruction_error: 2.0892 - regularization_error: 86.0819 - val_loss: 855.8218 - val_reconstruction_error: 25.8071 - val_regularization_error: 81.6098
Epoch 567/1000
120/120 [=====] - 17s 141ms/step - loss: 150.0360 - reconstruction_error: 2.1159 - regularization_error: 86.5593 - val_loss: 868.3082 - val_reconstruction_error: 26.2382 - val_regularization_error: 81.1631
Epoch 568/1000
120/120 [=====] - 18s 150ms/step - loss: 148.5823 - reconstruction_error: 2.0850 - regularization_error: 86.0315 - val_loss: 869.6462 - val_reconstruction_error: 26.1420 - val_regularization_error: 85.3848
Epoch 569/1000
120/120 [=====] - 14s 119ms/step - loss: 151.3410 - reconstruction_error: 2.1540 - regularization_error: 86.7223 - val_loss: 864.0599 - val_reconstruction_error: 26.0223 - val_regularization_error: 83.3903
Epoch 570/1000
120/120 [=====] - 17s 144ms/step - loss: 150.6791 - reconstruction_error: 2.1372 - regularization_error: 86.5641 - val_loss: 862.6636 - val_reconstruction_error: 26.0555 - val_regularization_error: 81.0001
Epoch 571/1000
120/120 [=====] - ETA: 0s - loss: 150.2030 - reconstruction_error: 2.1225 - regularization_error: 86.5287
[2023-12-03 00:23:23.115215]: Reconstructing images for epoch 571 ...
```



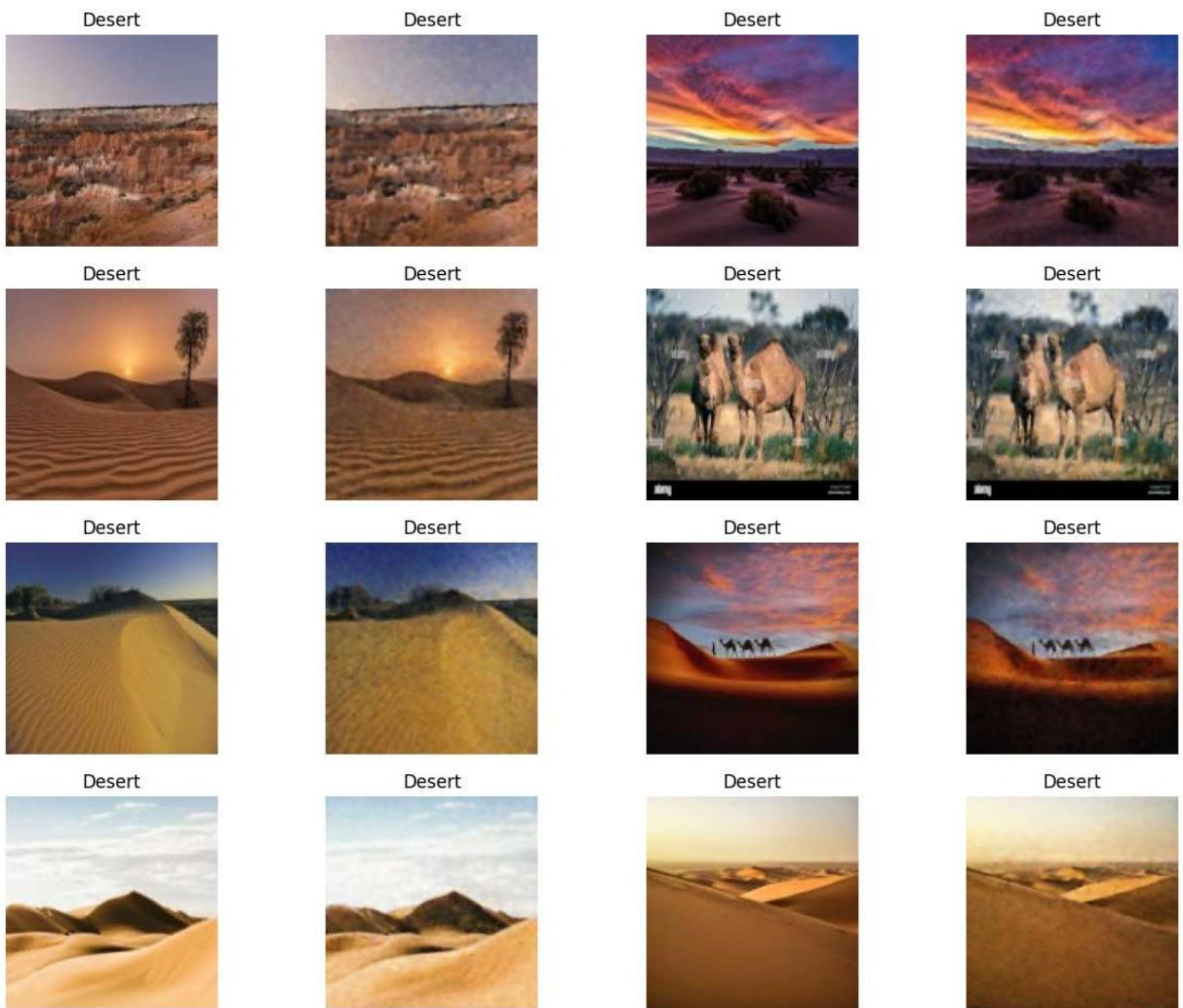
```
120/120 [=====] - 18s 154ms/step - loss: 150.2030 - reconstruction_error: 2.1225 - regularization_error: 86.5287 - val_loss: 861.4229 - val_reconstruction_error: 26.0350 - val_regularization_error: 80.3728
Epoch 572/1000
120/120 [=====] - 17s 142ms/step - loss: 148.6005 - reconstruction_error: 2.0743 - regularization_error: 86.3722 - val_loss: 859.9195 - val_reconstruction_error: 25.9972 - val_regularization_error: 80.0031
Epoch 573/1000
120/120 [=====] - 16s 131ms/step - loss: 148.8125 - reconstruction_error: 2.0886 - regularization_error: 86.1555 - val_loss: 861.8235 - val_reconstruction_error: 25.9730 - val_regularization_error: 82.6325
Epoch 574/1000
120/120 [=====] - 16s 129ms/step - loss: 149.9216 - reconstruction_error: 2.1182 - regularization_error: 86.3749 - val_loss: 865.0208 - val_reconstruction_error: 26.1862 - val_regularization_error: 79.4335
Epoch 575/1000
120/120 [=====] - 18s 149ms/step - loss: 150.0600 - reconstruction_error: 2.1259 - regularization_error: 86.2839 - val_loss: 863.0139 - val_reconstruction_error: 26.1334 - val_regularization_error: 79.0131
Epoch 576/1000
120/120 [=====] - 13s 110ms/step - loss: 148.4353 - reconstruction_error: 2.0759 - regularization_error: 86.1570 - val_loss: 860.9058 - val_reconstruction_error: 25.9834 - val_regularization_error: 81.4050
Epoch 577/1000
120/120 [=====] - 17s 140ms/step - loss: 149.8142 - reconstruction_error: 2.1100 - regularization_error: 86.5139 - val_loss: 886.1620 - val_reconstruction_error: 26.9337 - val_regularization_error: 78.1505
Epoch 578/1000
120/120 [=====] - 14s 112ms/step - loss: 148.4393 - reconstruction_error: 2.0750 - regularization_error: 86.1880 - val_loss: 861.4698 - val_reconstruction_error: 26.0423 - val_regularization_error: 80.2000
Epoch 579/1000
120/120 [=====] - 16s 134ms/step - loss: 147.6824 - reconstruction_error: 2.0531 - regularization_error: 86.0881 - val_loss: 859.6210 - val_reconstruction_error: 25.9696 - val_regularization_error: 80.5346
Epoch 580/1000
120/120 [=====] - 16s 133ms/step - loss: 149.5007 - reconstruction_error: 2.1028 - regularization_error: 86.4159 - val_loss: 887.8143 - val_reconstruction_error: 26.9551 - val_regularization_error: 79.1614
Epoch 581/1000
120/120 [=====] - ETA: 0s - loss: 150.7965 - reconstruction_error: 2.1288 - regularization_error: 86.9310
[2023-12-03 00:26:04.568068]: Reconstructing images for epoch 581 ...
```



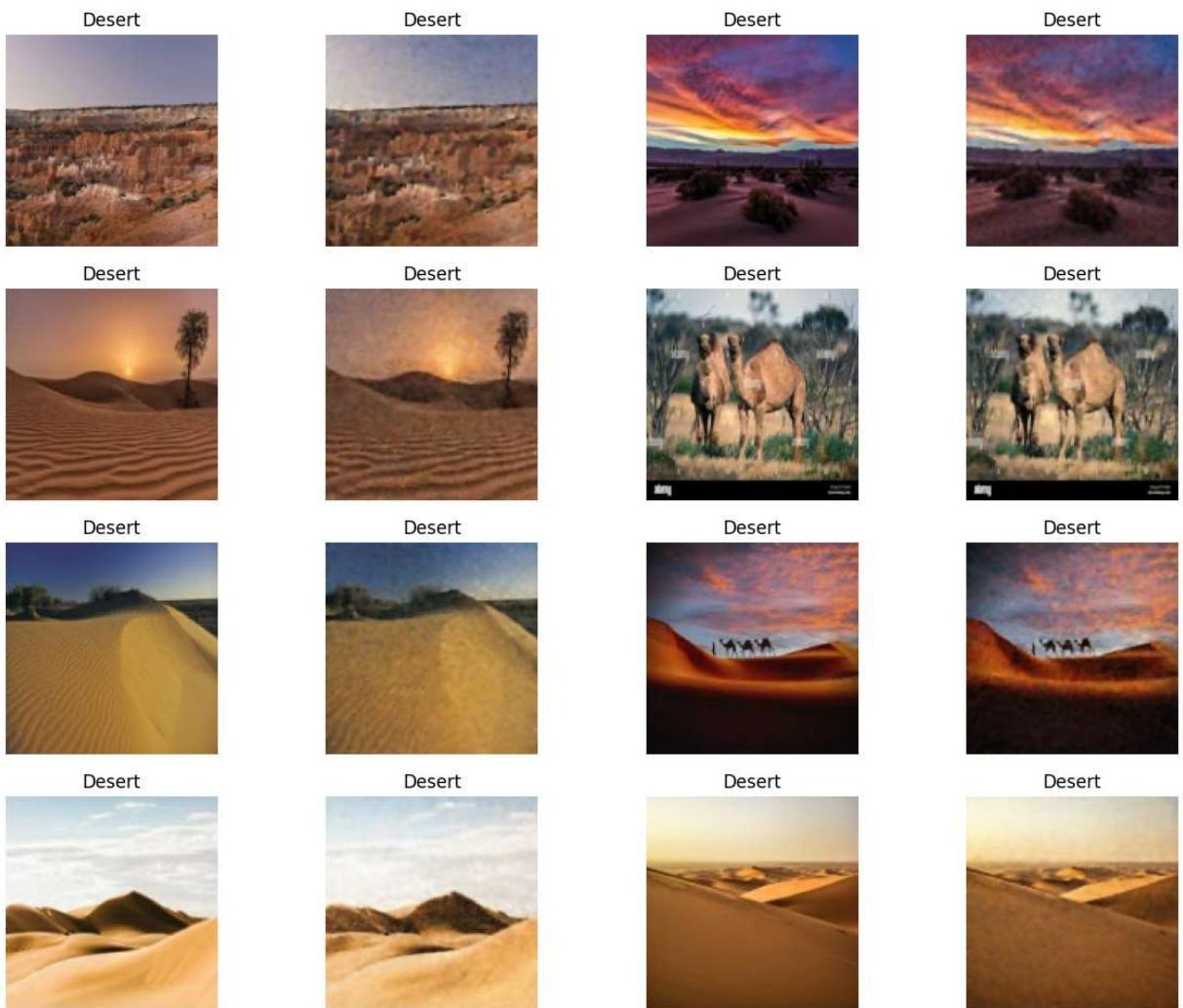
```
120/120 [=====] - 18s 146ms/step - loss: 150.7965 - reconstruction_error: 2.1288 - regularization_error: 86.9310 - val_loss: 864.3260 - val_reconstruction_error: 26.1153 - val_regularization_error: 80.8667
Epoch 582/1000
120/120 [=====] - 16s 131ms/step - loss: 147.5230 - reconstruction_error: 2.0441 - regularization_error: 86.1999 - val_loss: 863.6835 - val_reconstruction_error: 26.0724 - val_regularization_error: 81.5108
Epoch 583/1000
120/120 [=====] - 16s 131ms/step - loss: 147.5872 - reconstruction_error: 2.0490 - regularization_error: 86.1164 - val_loss: 866.0410 - val_reconstruction_error: 26.1224 - val_regularization_error: 82.3684
Epoch 584/1000
120/120 [=====] - 16s 132ms/step - loss: 149.2145 - reconstruction_error: 2.1002 - regularization_error: 86.2085 - val_loss: 870.6414 - val_reconstruction_error: 26.2996 - val_regularization_error: 81.6535
Epoch 585/1000
120/120 [=====] - 19s 156ms/step - loss: 151.5338 - reconstruction_error: 2.1645 - regularization_error: 86.5976 - val_loss: 880.0444 - val_reconstruction_error: 26.5914 - val_regularization_error: 82.3012
Epoch 586/1000
120/120 [=====] - 16s 134ms/step - loss: 151.1638 - reconstruction_error: 2.1580 - regularization_error: 86.4235 - val_loss: 861.9109 - val_reconstruction_error: 26.0601 - val_regularization_error: 80.1069
Epoch 587/1000
120/120 [=====] - 16s 134ms/step - loss: 149.8564 - reconstruction_error: 2.1208 - regularization_error: 86.2318 - val_loss: 862.0695 - val_reconstruction_error: 25.9826 - val_regularization_error: 82.5915
Epoch 588/1000
120/120 [=====] - 19s 160ms/step - loss: 151.2049 - reconstruction_error: 2.1514 - regularization_error: 86.6624 - val_loss: 862.3996 - val_reconstruction_error: 26.0717 - val_regularization_error: 80.2502
Epoch 589/1000
120/120 [=====] - 15s 123ms/step - loss: 147.6964 - reconstruction_error: 2.0570 - regularization_error: 85.9871 - val_loss: 863.5520 - val_reconstruction_error: 26.1317 - val_regularization_error: 79.6008
Epoch 590/1000
120/120 [=====] - 17s 131ms/step - loss: 146.9122 - reconstruction_error: 2.0340 - regularization_error: 85.8912 - val_loss: 858.2101 - val_reconstruction_error: 25.9065 - val_regularization_error: 81.0155
Epoch 591/1000
120/120 [=====] - ETA: 0s - loss: 151.1183 - reconstruction_error: 2.1538 - regularization_error: 86.5052
[2023-12-03 00:29:02.401755]: Reconstructing images for epoch 591 ...
```



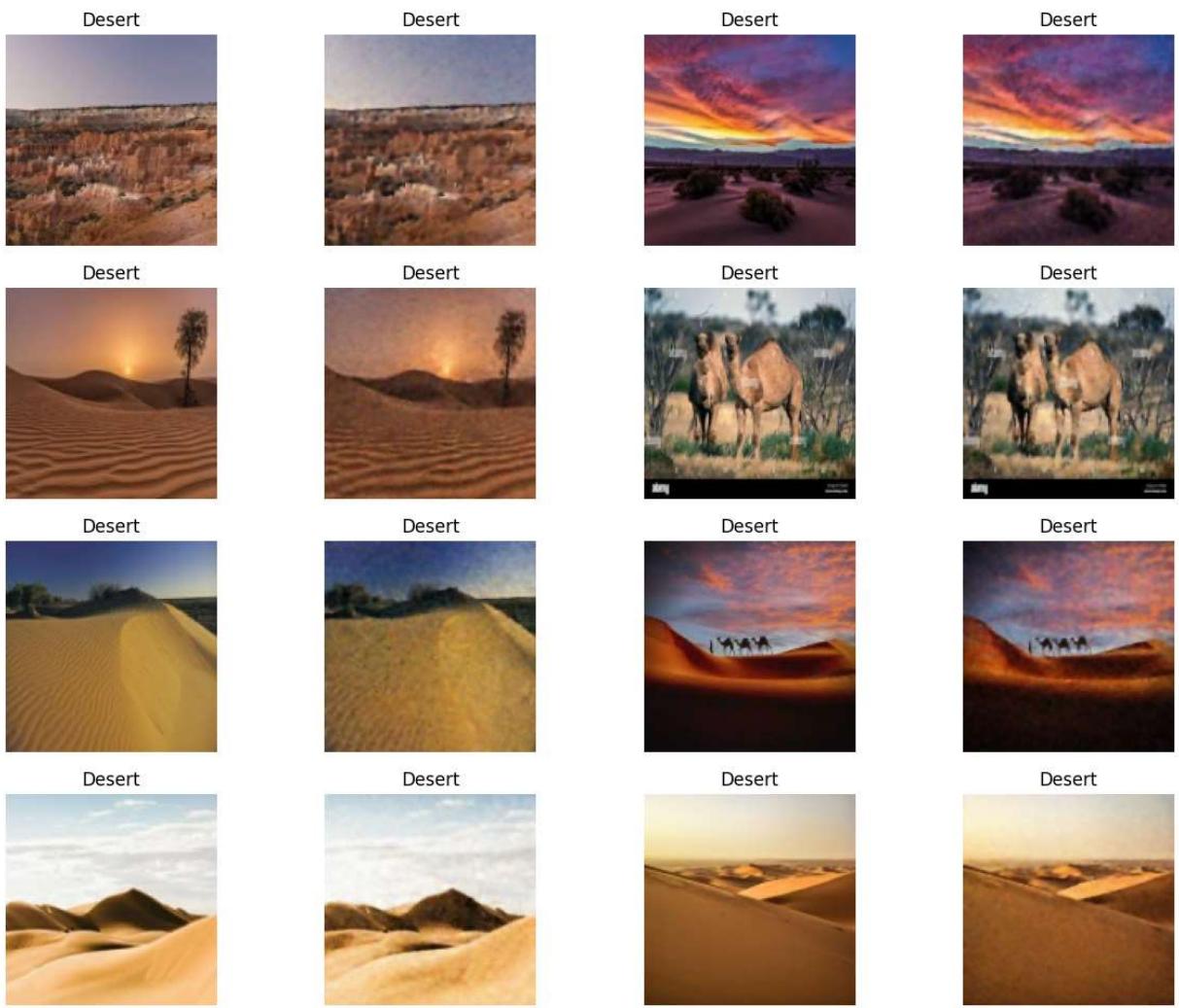
```
120/120 [=====] - 22s 180ms/step - loss: 151.1183 - reconstruction_error: 2.1538 - regularization_error: 86.5052 - val_loss: 876.9723 - val_reconstruction_error: 26.4876 - val_regularization_error: 82.3435
Epoch 592/1000
120/120 [=====] - 16s 131ms/step - loss: 149.7673 - reconstruction_error: 2.1121 - regularization_error: 86.4045 - val_loss: 867.3467 - val_reconstruction_error: 26.2372 - val_regularization_error: 80.2309
Epoch 593/1000
120/120 [=====] - 15s 122ms/step - loss: 147.5478 - reconstruction_error: 2.0442 - regularization_error: 86.2209 - val_loss: 863.9544 - val_reconstruction_error: 26.0988 - val_regularization_error: 80.9901
Epoch 594/1000
120/120 [=====] - 17s 143ms/step - loss: 148.6775 - reconstruction_error: 2.0825 - regularization_error: 86.2018 - val_loss: 858.6286 - val_reconstruction_error: 25.8953 - val_regularization_error: 81.7684
Epoch 595/1000
120/120 [=====] - 16s 130ms/step - loss: 147.3569 - reconstruction_error: 2.0530 - regularization_error: 85.7670 - val_loss: 863.8785 - val_reconstruction_error: 26.0378 - val_regularization_error: 82.7451
Epoch 596/1000
120/120 [=====] - 15s 127ms/step - loss: 147.9064 - reconstruction_error: 2.0603 - regularization_error: 86.0976 - val_loss: 871.9961 - val_reconstruction_error: 26.4455 - val_regularization_error: 78.6312
Epoch 597/1000
120/120 [=====] - 17s 140ms/step - loss: 147.4718 - reconstruction_error: 2.0445 - regularization_error: 86.1366 - val_loss: 864.5700 - val_reconstruction_error: 26.0716 - val_regularization_error: 82.4234
Epoch 598/1000
120/120 [=====] - 16s 133ms/step - loss: 149.0674 - reconstruction_error: 2.0974 - regularization_error: 86.1466 - val_loss: 862.2327 - val_reconstruction_error: 26.0021 - val_regularization_error: 82.1707
Epoch 599/1000
120/120 [=====] - 14s 118ms/step - loss: 148.8746 - reconstruction_error: 2.0850 - regularization_error: 86.3237 - val_loss: 862.5910 - val_reconstruction_error: 26.0534 - val_regularization_error: 80.9883
Epoch 600/1000
120/120 [=====] - 16s 129ms/step - loss: 146.7913 - reconstruction_error: 2.0366 - regularization_error: 85.6927 - val_loss: 869.1610 - val_reconstruction_error: 26.3586 - val_regularization_error: 78.4033
Epoch 601/1000
120/120 [=====] - ETA: 0s - loss: 147.8361 - reconstruction_error: 2.0689 - regularization_error: 85.7701
[2023-12-03 00:31:46.687389]: Reconstructing images for epoch 601 ...
```



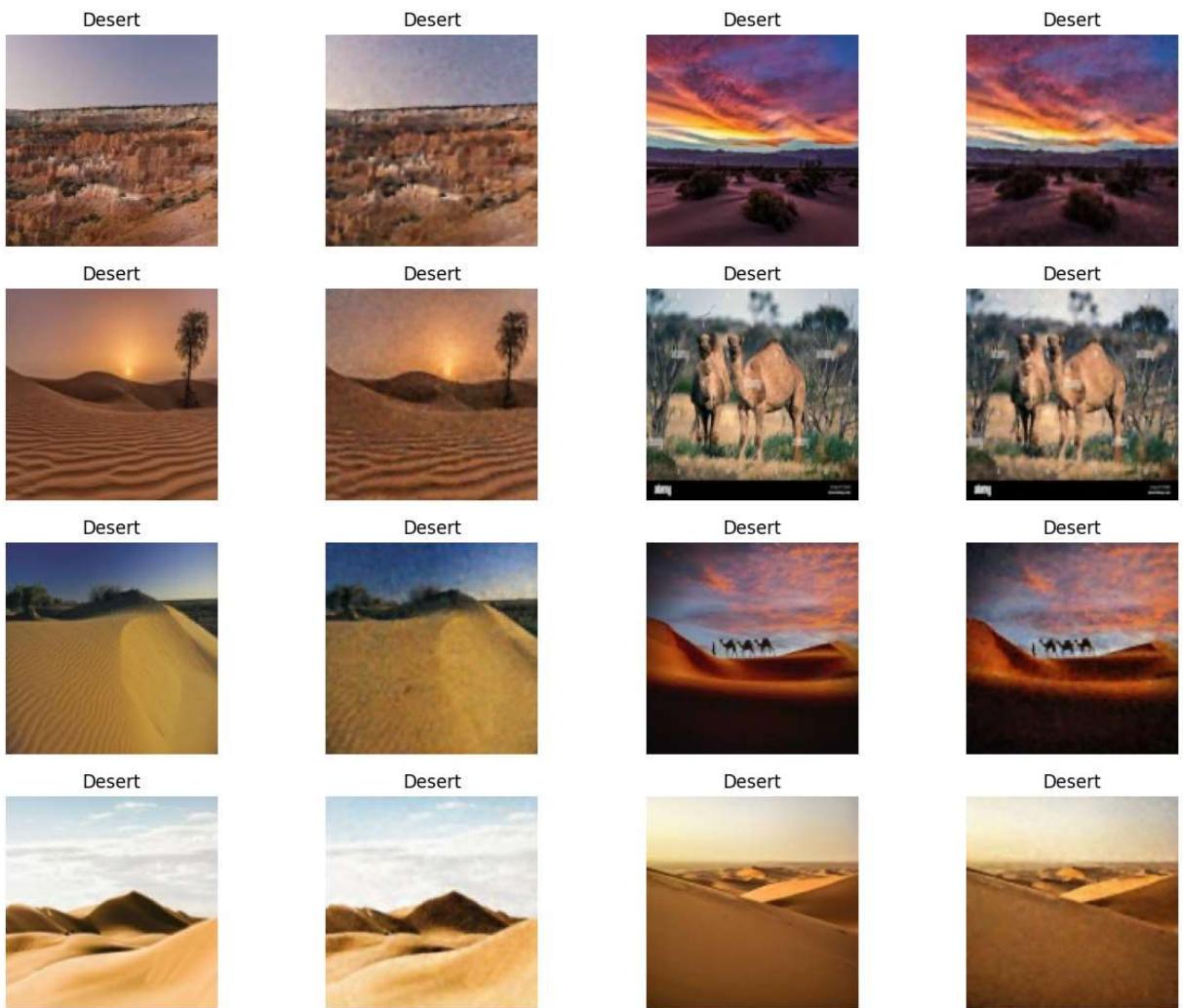
```
120/120 [=====] - 20s 164ms/step - loss: 147.8361 - reconstruction_error: 2.0689 - regularization_error: 85.7701 - val_loss: 866.3118 - val_reconstruction_error: 26.2515 - val_regularization_error: 78.7676
Epoch 602/1000
120/120 [=====] - 16s 130ms/step - loss: 149.5172 - reconstruction_error: 2.1119 - regularization_error: 86.1608 - val_loss: 874.2949 - val_reconstruction_error: 26.4552 - val_regularization_error: 80.6402
Epoch 603/1000
120/120 [=====] - 17s 144ms/step - loss: 148.0651 - reconstruction_error: 2.0661 - regularization_error: 86.0816 - val_loss: 870.1996 - val_reconstruction_error: 26.3039 - val_regularization_error: 81.0829
Epoch 604/1000
120/120 [=====] - 19s 161ms/step - loss: 147.5828 - reconstruction_error: 2.0440 - regularization_error: 86.2616 - val_loss: 862.6772 - val_reconstruction_error: 26.1145 - val_regularization_error: 79.2411
Epoch 605/1000
120/120 [=====] - 15s 126ms/step - loss: 147.9283 - reconstruction_error: 2.0670 - regularization_error: 85.9169 - val_loss: 870.2770 - val_reconstruction_error: 26.3418 - val_regularization_error: 80.0239
Epoch 606/1000
120/120 [=====] - 15s 121ms/step - loss: 149.1800 - reconstruction_error: 2.1050 - regularization_error: 86.0314 - val_loss: 865.4904 - val_reconstruction_error: 26.1318 - val_regularization_error: 81.5357
Epoch 607/1000
120/120 [=====] - 18s 148ms/step - loss: 146.6444 - reconstruction_error: 2.0272 - regularization_error: 85.8295 - val_loss: 862.5397 - val_reconstruction_error: 26.0668 - val_regularization_error: 80.5353
Epoch 608/1000
120/120 [=====] - 15s 128ms/step - loss: 147.0234 - reconstruction_error: 2.0385 - regularization_error: 85.8670 - val_loss: 870.7012 - val_reconstruction_error: 26.3031 - val_regularization_error: 81.6093
Epoch 609/1000
120/120 [=====] - 16s 127ms/step - loss: 148.5057 - reconstruction_error: 2.0862 - regularization_error: 85.9207 - val_loss: 871.0626 - val_reconstruction_error: 26.3579 - val_regularization_error: 80.3252
Epoch 610/1000
120/120 [=====] - 14s 114ms/step - loss: 147.0596 - reconstruction_error: 2.0332 - regularization_error: 86.0643 - val_loss: 871.5889 - val_reconstruction_error: 26.3754 - val_regularization_error: 80.3263
Epoch 611/1000
120/120 [=====] - ETA: 0s - loss: 148.6384 - reconstruction_error: 2.0911 - regularization_error: 85.9059
[2023-12-03 00:34:33.539476]: Reconstructing images for epoch 611 ...
```



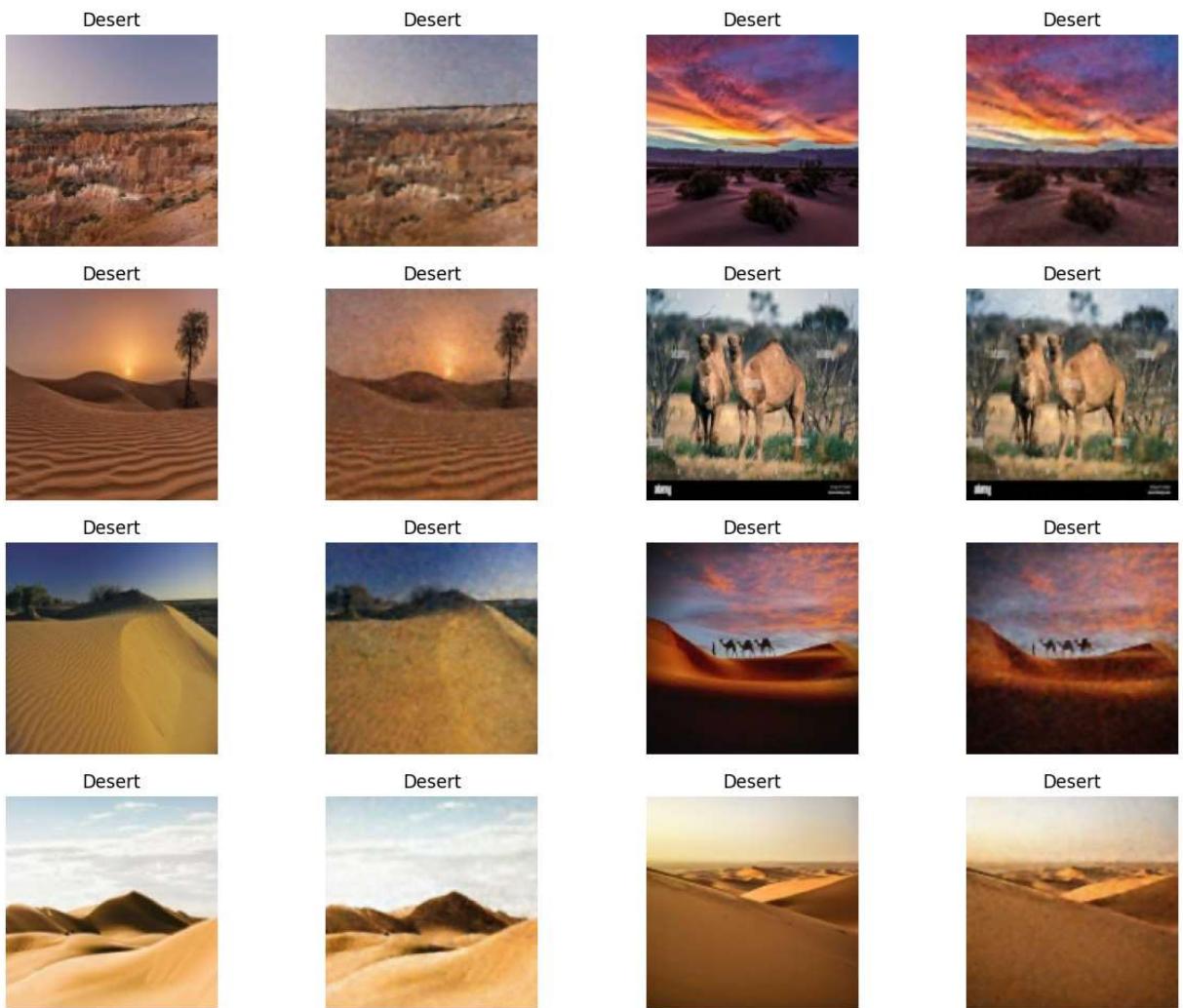
```
120/120 [=====] - 20s 164ms/step - loss: 148.6384 - reconstruction_error: 2.0911 - regularization_error: 85.9059 - val_loss: 865.4142 - val_reconstruction_error: 26.1633 - val_regularization_error: 80.5149
Epoch 612/1000
120/120 [=====] - 17s 144ms/step - loss: 147.7977 - reconstruction_error: 2.0653 - regularization_error: 85.8381 - val_loss: 864.4185 - val_reconstruction_error: 26.1569 - val_regularization_error: 79.7102
Epoch 613/1000
120/120 [=====] - 17s 137ms/step - loss: 148.8431 - reconstruction_error: 2.0882 - regularization_error: 86.1966 - val_loss: 864.6086 - val_reconstruction_error: 26.1408 - val_regularization_error: 80.3839
Epoch 614/1000
120/120 [=====] - 16s 129ms/step - loss: 150.0478 - reconstruction_error: 2.1238 - regularization_error: 86.3332 - val_loss: 871.7267 - val_reconstruction_error: 26.2400 - val_regularization_error: 84.5269
Epoch 615/1000
120/120 [=====] - 14s 113ms/step - loss: 148.5991 - reconstruction_error: 2.0780 - regularization_error: 86.2588 - val_loss: 858.1475 - val_reconstruction_error: 25.8575 - val_regularization_error: 82.4215
Epoch 616/1000
120/120 [=====] - 14s 115ms/step - loss: 147.7538 - reconstruction_error: 2.0526 - regularization_error: 86.1747 - val_loss: 863.6016 - val_reconstruction_error: 26.1606 - val_regularization_error: 78.7823
Epoch 617/1000
120/120 [=====] - 17s 143ms/step - loss: 146.8385 - reconstruction_error: 2.0310 - regularization_error: 85.9074 - val_loss: 874.8732 - val_reconstruction_error: 26.4502 - val_regularization_error: 81.3664
Epoch 618/1000
120/120 [=====] - 13s 108ms/step - loss: 153.0779 - reconstruction_error: 2.2184 - regularization_error: 86.5263 - val_loss: 888.7236 - val_reconstruction_error: 26.9693 - val_regularization_error: 79.6453
Epoch 619/1000
120/120 [=====] - 16s 134ms/step - loss: 148.6457 - reconstruction_error: 2.0868 - regularization_error: 86.0418 - val_loss: 873.0598 - val_reconstruction_error: 26.4565 - val_regularization_error: 79.3656
Epoch 620/1000
120/120 [=====] - 16s 129ms/step - loss: 147.1780 - reconstruction_error: 2.0434 - regularization_error: 85.8753 - val_loss: 875.2953 - val_reconstruction_error: 26.5253 - val_regularization_error: 79.5351
Epoch 621/1000
120/120 [=====] - ETA: 0s - loss: 147.0739 - reconstruction_error: 2.0357 - regularization_error: 86.0041
[2023-12-03 00:37:11.297663]: Reconstructing images for epoch 621 ...
```



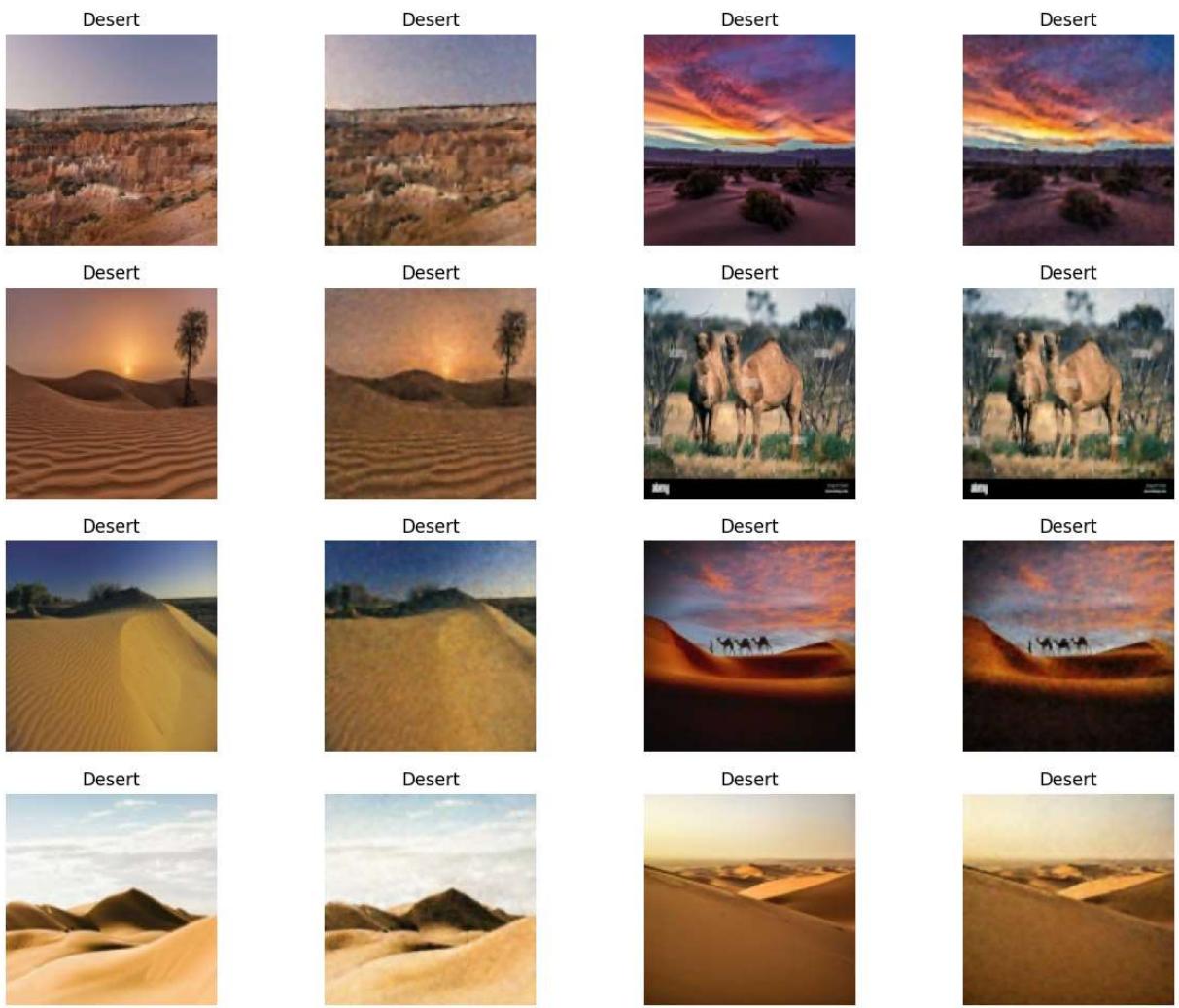
```
120/120 [=====] - 18s 144ms/step - loss: 147.0739 - reconstruction_error: 2.0357 - regularization_error: 86.0041 - val_loss: 868.3298 - val_reconstruction_error: 26.2587 - val_regularization_error: 80.5684
Epoch 622/1000
120/120 [=====] - 17s 141ms/step - loss: 147.2740 - reconstruction_error: 2.0471 - regularization_error: 85.8618 - val_loss: 875.6022 - val_reconstruction_error: 26.6194 - val_regularization_error: 77.0205
Epoch 623/1000
120/120 [=====] - 16s 137ms/step - loss: 147.2757 - reconstruction_error: 2.0474 - regularization_error: 85.8528 - val_loss: 875.9361 - val_reconstruction_error: 26.5081 - val_regularization_error: 80.6917
Epoch 624/1000
120/120 [=====] - 15s 126ms/step - loss: 146.3980 - reconstruction_error: 2.0217 - regularization_error: 85.7484 - val_loss: 865.5848 - val_reconstruction_error: 26.2135 - val_regularization_error: 79.1784
Epoch 625/1000
120/120 [=====] - 15s 125ms/step - loss: 146.3943 - reconstruction_error: 2.0234 - regularization_error: 85.6914 - val_loss: 866.8568 - val_reconstruction_error: 26.2072 - val_regularization_error: 80.6408
Epoch 626/1000
120/120 [=====] - 14s 113ms/step - loss: 147.4580 - reconstruction_error: 2.0569 - regularization_error: 85.7515 - val_loss: 880.2832 - val_reconstruction_error: 26.5576 - val_regularization_error: 83.5552
Epoch 627/1000
120/120 [=====] - 18s 146ms/step - loss: 146.4254 - reconstruction_error: 2.0245 - regularization_error: 85.6893 - val_loss: 865.7345 - val_reconstruction_error: 26.2066 - val_regularization_error: 79.5378
Epoch 628/1000
120/120 [=====] - 17s 140ms/step - loss: 146.4382 - reconstruction_error: 2.0288 - regularization_error: 85.5743 - val_loss: 874.2453 - val_reconstruction_error: 26.4833 - val_regularization_error: 79.7471
Epoch 629/1000
120/120 [=====] - 16s 135ms/step - loss: 146.4323 - reconstruction_error: 2.0256 - regularization_error: 85.6644 - val_loss: 861.7054 - val_reconstruction_error: 26.0753 - val_regularization_error: 79.4473
Epoch 630/1000
120/120 [=====] - 17s 135ms/step - loss: 147.5022 - reconstruction_error: 2.0569 - regularization_error: 85.7951 - val_loss: 880.4572 - val_reconstruction_error: 26.6107 - val_regularization_error: 82.1368
Epoch 631/1000
119/120 [=====.>.] - ETA: 0s - loss: 150.8014 - reconstruction_error: 2.1540 - regularization_error: 86.1822
[2023-12-03 00:39:56.572498]: Reconstructing images for epoch 631 ...
```



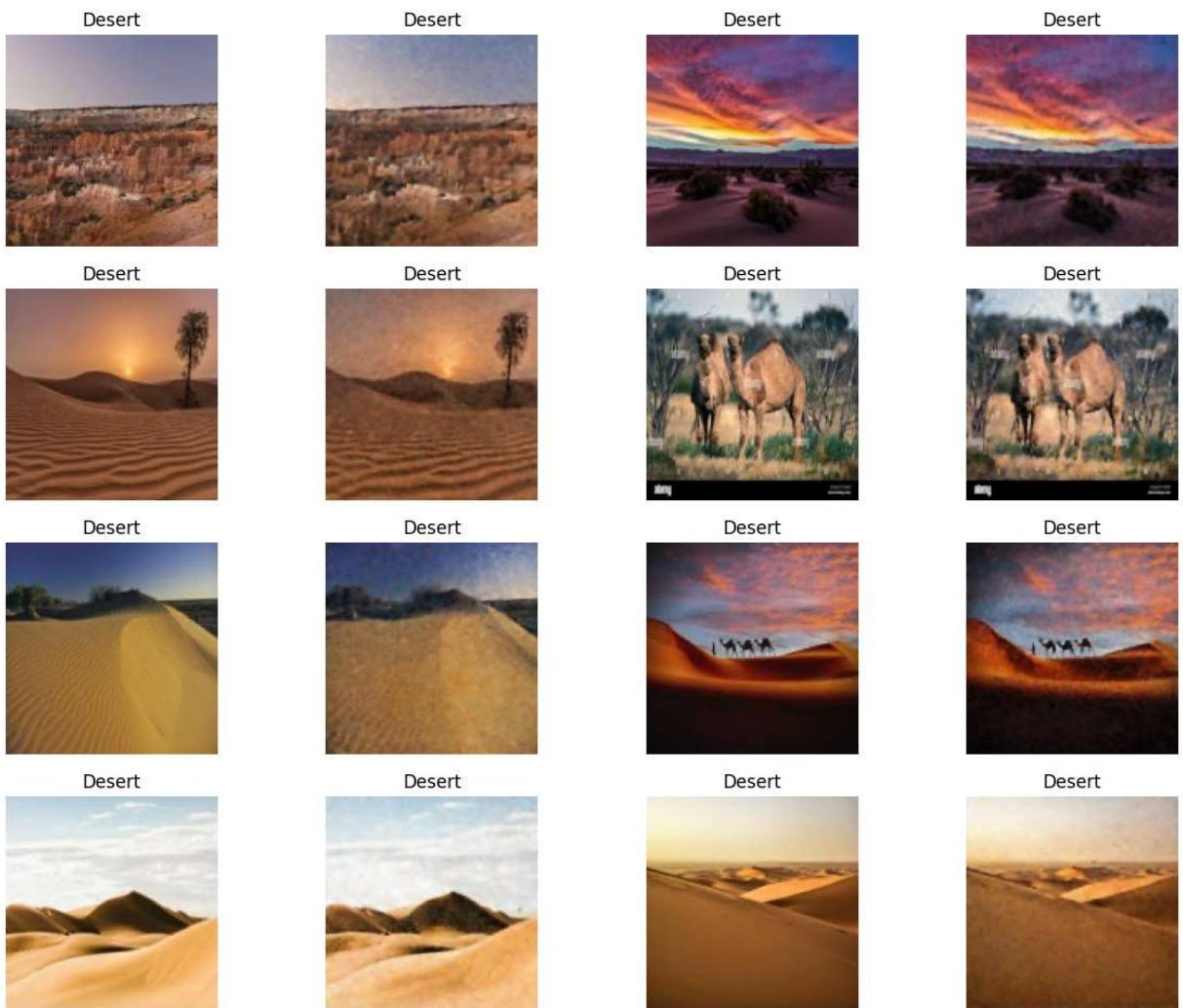
```
120/120 [=====] - 17s 144ms/step - loss: 150.7362 - reconstruction_error: 2.1513 - regularization_error: 86.1980 - val_loss: 867.8814 - val_reconstruction_error: 26.1348 - val_regularization_error: 83.8371
Epoch 632/1000
120/120 [=====] - 13s 110ms/step - loss: 146.3059 - reconstruction_error: 2.0194 - regularization_error: 85.7234 - val_loss: 862.3810 - val_reconstruction_error: 26.0180 - val_regularization_error: 81.8406
Epoch 633/1000
120/120 [=====] - 17s 143ms/step - loss: 147.6313 - reconstruction_error: 2.0560 - regularization_error: 85.9526 - val_loss: 871.0861 - val_reconstruction_error: 26.3420 - val_regularization_error: 80.8252
Epoch 634/1000
120/120 [=====] - 15s 121ms/step - loss: 148.3963 - reconstruction_error: 2.0855 - regularization_error: 85.8324 - val_loss: 867.1644 - val_reconstruction_error: 26.1683 - val_regularization_error: 82.1162
Epoch 635/1000
120/120 [=====] - 18s 149ms/step - loss: 148.0515 - reconstruction_error: 2.0693 - regularization_error: 85.9714 - val_loss: 867.4610 - val_reconstruction_error: 26.2662 - val_regularization_error: 79.4762
Epoch 636/1000
120/120 [=====] - 17s 140ms/step - loss: 145.7629 - reconstruction_error: 2.0098 - regularization_error: 85.4681 - val_loss: 867.5466 - val_reconstruction_error: 26.2706 - val_regularization_error: 79.4281
Epoch 637/1000
120/120 [=====] - 14s 113ms/step - loss: 146.2320 - reconstruction_error: 2.0238 - regularization_error: 85.5189 - val_loss: 874.2970 - val_reconstruction_error: 26.4736 - val_regularization_error: 80.0879
Epoch 638/1000
120/120 [=====] - 21s 174ms/step - loss: 146.6422 - reconstruction_error: 2.0335 - regularization_error: 85.6373 - val_loss: 863.5955 - val_reconstruction_error: 26.1087 - val_regularization_error: 80.3332
Epoch 639/1000
120/120 [=====] - 18s 147ms/step - loss: 149.0676 - reconstruction_error: 2.1091 - regularization_error: 85.7931 - val_loss: 875.5349 - val_reconstruction_error: 26.4564 - val_regularization_error: 81.8419
Epoch 640/1000
120/120 [=====] - 16s 134ms/step - loss: 147.8955 - reconstruction_error: 2.0674 - regularization_error: 85.8738 - val_loss: 870.2786 - val_reconstruction_error: 26.2914 - val_regularization_error: 81.5378
Epoch 641/1000
120/120 [=====] - ETA: 0s - loss: 147.8149 - reconstruction_error: 2.0548 - regularization_error: 86.1723
[2023-12-03 00:42:45.792729]: Reconstructing images for epoch 641 ...
```



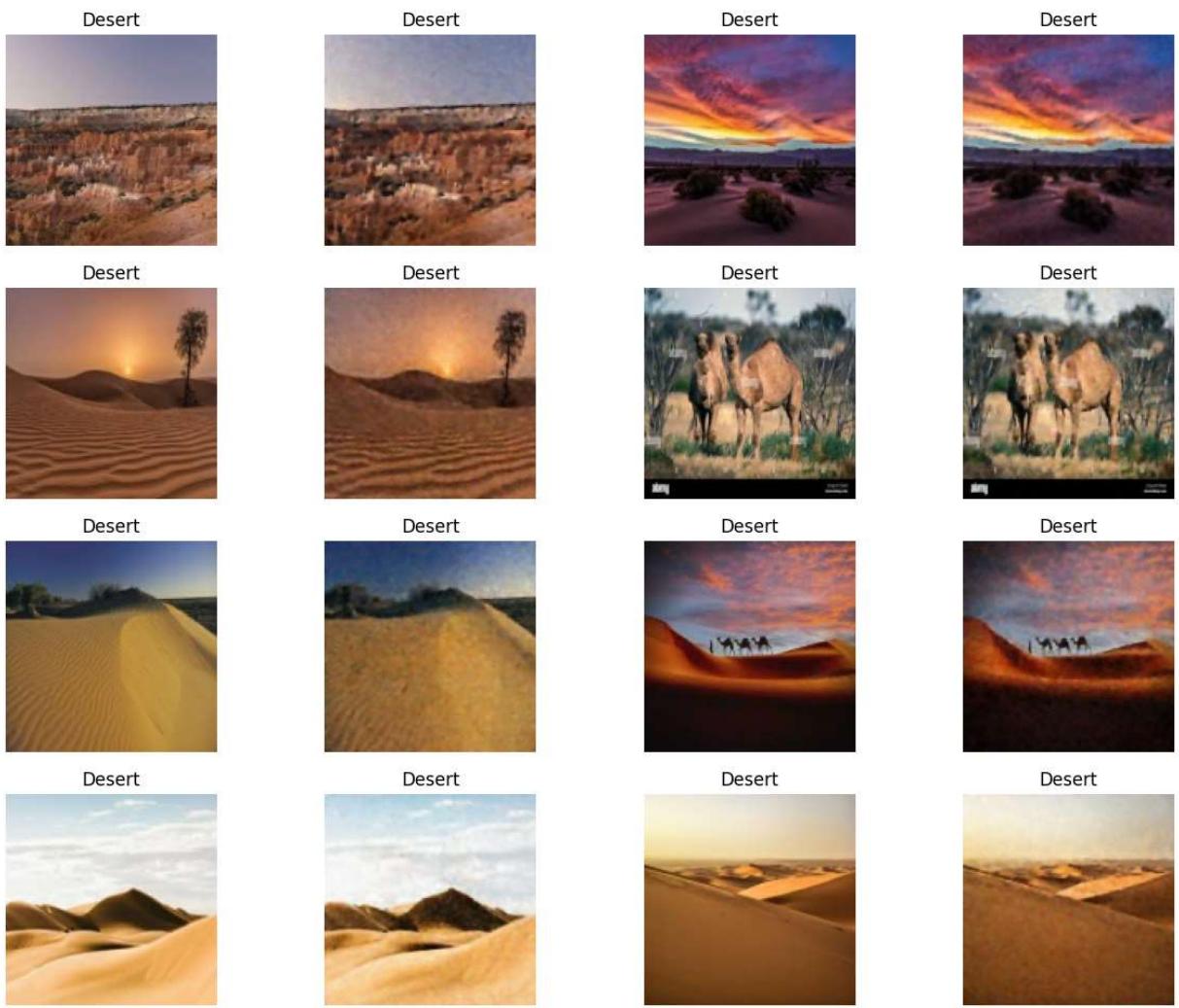
```
120/120 [=====] - 20s 166ms/step - loss: 147.8149 - reconstruction_error: 2.0548 - regularization_error: 86.1723 - val_loss: 874.2794 - val_reconstruction_error: 26.5847 - val_regularization_error: 76.7385
Epoch 642/1000
120/120 [=====] - 16s 132ms/step - loss: 148.5039 - reconstruction_error: 2.0975 - regularization_error: 85.5777 - val_loss: 877.1000 - val_reconstruction_error: 26.5187 - val_regularization_error: 81.5375
Epoch 643/1000
120/120 [=====] - 17s 138ms/step - loss: 147.2025 - reconstruction_error: 2.0415 - regularization_error: 85.9584 - val_loss: 876.2502 - val_reconstruction_error: 26.5328 - val_regularization_error: 80.2672
Epoch 644/1000
120/120 [=====] - 16s 132ms/step - loss: 146.9199 - reconstruction_error: 2.0365 - regularization_error: 85.8256 - val_loss: 865.8243 - val_reconstruction_error: 26.1706 - val_regularization_error: 80.7062
Epoch 645/1000
120/120 [=====] - 16s 133ms/step - loss: 146.2979 - reconstruction_error: 2.0274 - regularization_error: 85.4771 - val_loss: 874.7488 - val_reconstruction_error: 26.5025 - val_regularization_error: 79.6732
Epoch 646/1000
120/120 [=====] - 14s 115ms/step - loss: 147.0634 - reconstruction_error: 2.0393 - regularization_error: 85.8855 - val_loss: 879.5155 - val_reconstruction_error: 26.6671 - val_regularization_error: 79.5028
Epoch 647/1000
120/120 [=====] - 16s 134ms/step - loss: 146.2214 - reconstruction_error: 2.0178 - regularization_error: 85.6865 - val_loss: 867.3976 - val_reconstruction_error: 26.2488 - val_regularization_error: 79.9335
Epoch 648/1000
120/120 [=====] - 17s 144ms/step - loss: 145.7510 - reconstruction_error: 2.0152 - regularization_error: 85.2952 - val_loss: 865.8090 - val_reconstruction_error: 26.1110 - val_regularization_error: 82.4785
Epoch 649/1000
120/120 [=====] - 16s 129ms/step - loss: 146.3363 - reconstruction_error: 2.0164 - regularization_error: 85.8446 - val_loss: 877.9796 - val_reconstruction_error: 26.6287 - val_regularization_error: 79.1188
Epoch 650/1000
120/120 [=====] - 20s 168ms/step - loss: 146.3214 - reconstruction_error: 2.0221 - regularization_error: 85.6574 - val_loss: 871.0380 - val_reconstruction_error: 26.3163 - val_regularization_error: 81.5503
Epoch 651/1000
120/120 [=====] - ETA: 0s - loss: 147.2032 - reconstruction_error: 2.0493 - regularization_error: 85.7240
[2023-12-03 00:45:32.890662]: Reconstructing images for epoch 651 ...
```



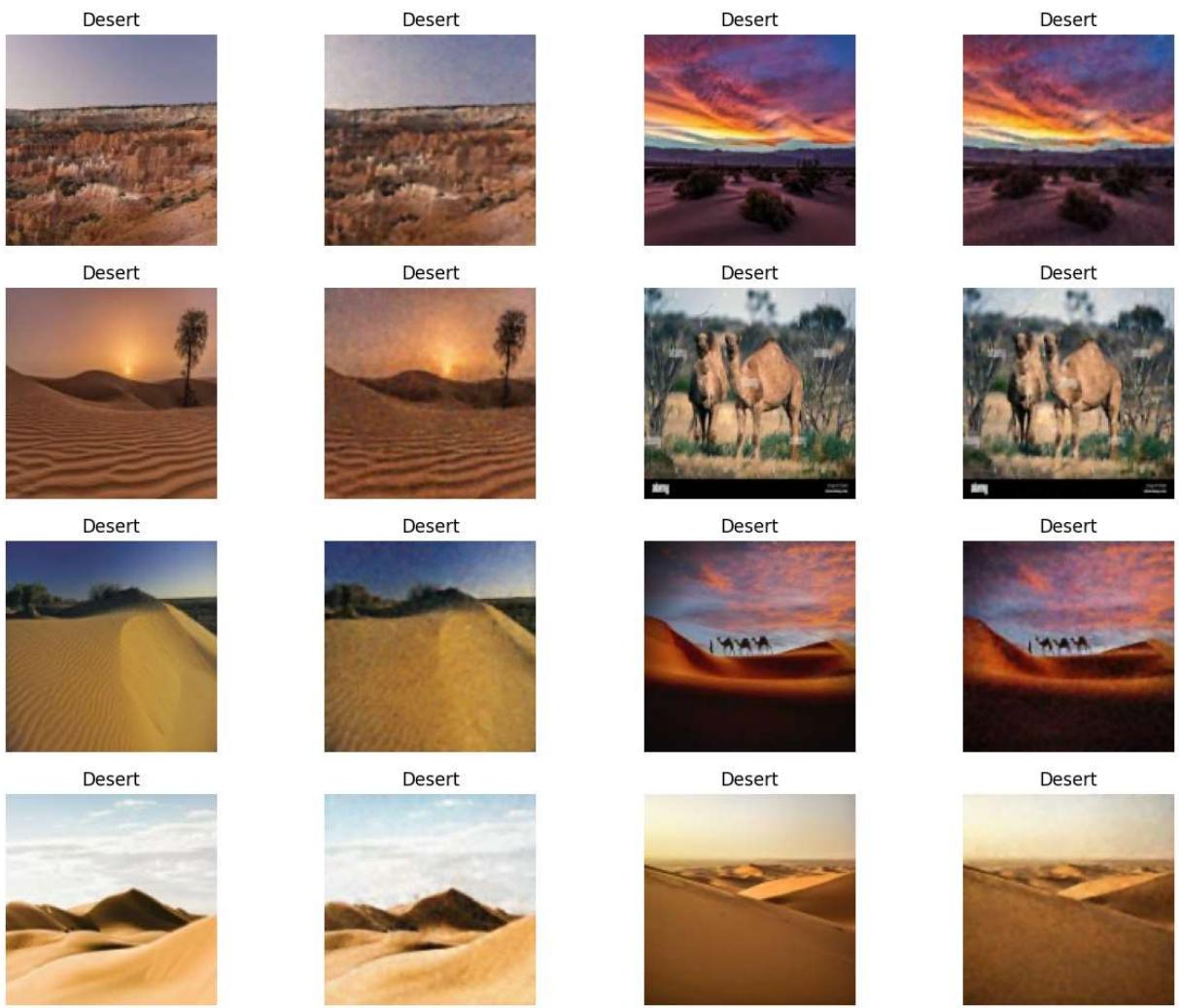
```
120/120 [=====] - 20s 163ms/step - loss: 147.2032 - reconstruction_error: 2.0493 - regularization_error: 85.7240 - val_loss: 880.9208 - val_reconstruction_error: 26.6750 - val_regularization_error: 80.6695
Epoch 652/1000
120/120 [=====] - 15s 127ms/step - loss: 147.2306 - reconstruction_error: 2.0477 - regularization_error: 85.7995 - val_loss: 873.6278 - val_reconstruction_error: 26.5135 - val_regularization_error: 78.2218
Epoch 653/1000
120/120 [=====] - 17s 141ms/step - loss: 147.3916 - reconstruction_error: 2.0466 - regularization_error: 85.9928 - val_loss: 867.3800 - val_reconstruction_error: 26.2288 - val_regularization_error: 80.5148
Epoch 654/1000
120/120 [=====] - 17s 136ms/step - loss: 146.7417 - reconstruction_error: 2.0302 - regularization_error: 85.8370 - val_loss: 881.4476 - val_reconstruction_error: 26.7105 - val_regularization_error: 80.1335
Epoch 655/1000
120/120 [=====] - 17s 136ms/step - loss: 154.5053 - reconstruction_error: 2.2528 - regularization_error: 86.9200 - val_loss: 881.5981 - val_reconstruction_error: 26.7750 - val_regularization_error: 78.3482
Epoch 656/1000
120/120 [=====] - 16s 136ms/step - loss: 147.0409 - reconstruction_error: 2.0445 - regularization_error: 85.7071 - val_loss: 885.2140 - val_reconstruction_error: 26.9160 - val_regularization_error: 77.7350
Epoch 657/1000
120/120 [=====] - 17s 144ms/step - loss: 147.0843 - reconstruction_error: 2.0461 - regularization_error: 85.7007 - val_loss: 868.3166 - val_reconstruction_error: 26.2816 - val_regularization_error: 79.8692
Epoch 658/1000
120/120 [=====] - 14s 114ms/step - loss: 146.6643 - reconstruction_error: 2.0366 - regularization_error: 85.5673 - val_loss: 871.8118 - val_reconstruction_error: 26.3511 - val_regularization_error: 81.2786
Epoch 659/1000
120/120 [=====] - 15s 119ms/step - loss: 146.8325 - reconstruction_error: 2.0498 - regularization_error: 85.3398 - val_loss: 885.8428 - val_reconstruction_error: 26.9414 - val_regularization_error: 77.6003
Epoch 660/1000
120/120 [=====] - 18s 153ms/step - loss: 145.8494 - reconstruction_error: 2.0160 - regularization_error: 85.3702 - val_loss: 878.9042 - val_reconstruction_error: 26.6441 - val_regularization_error: 79.5800
Epoch 661/1000
120/120 [=====] - ETA: 0s - loss: 145.5335 - reconstruction_error: 2.0062 - regularization_error: 85.3465
[2023-12-03 00:48:23.484982]: Reconstructing images for epoch 661 ...
```



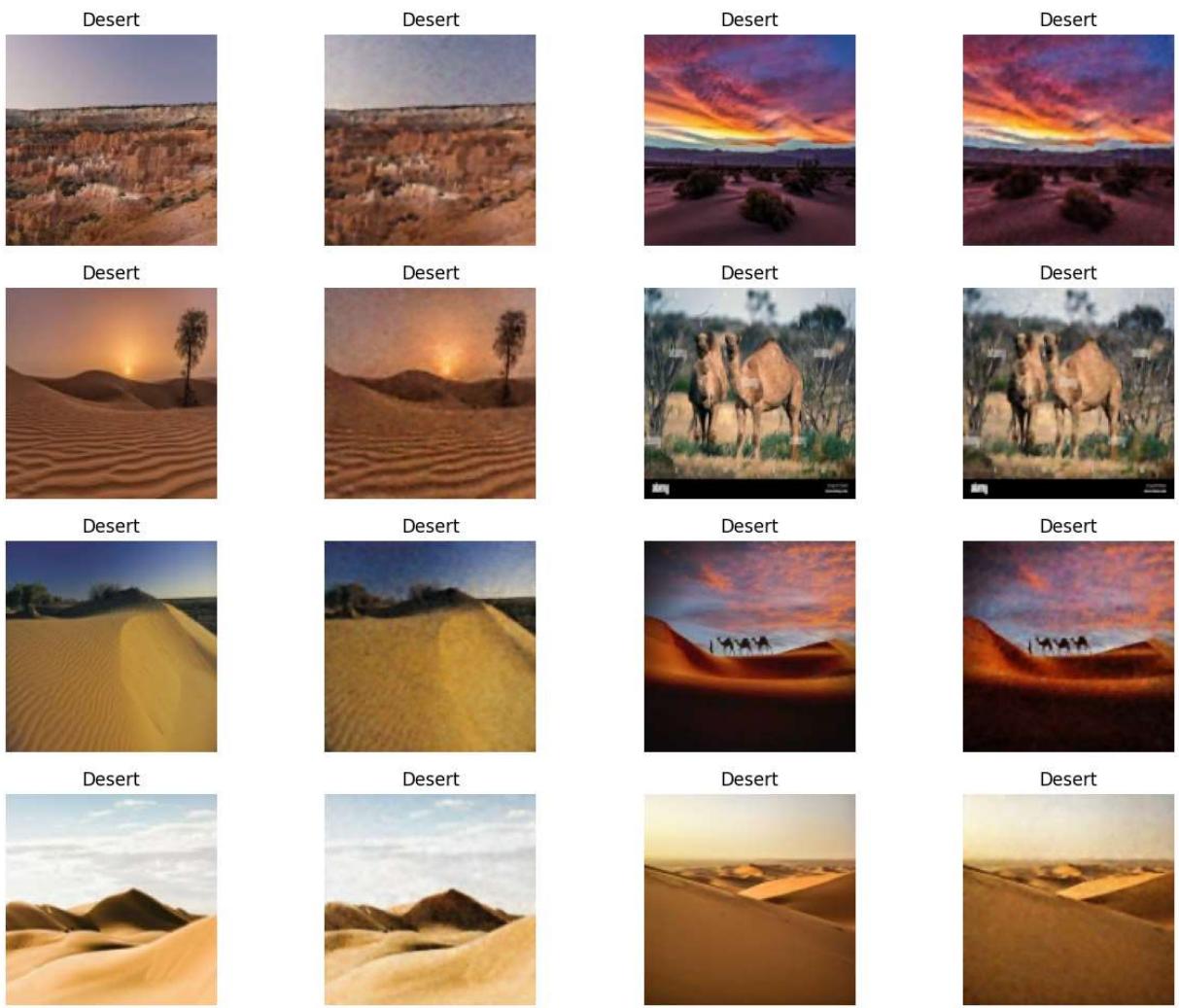
```
120/120 [=====] - 21s 176ms/step - loss: 145.5335 - reconstruction_error: 2.0062 - regularization_error: 85.3465 - val_loss: 867.7682 - val_reconstruction_error: 26.2722 - val_regularization_error: 79.6035
Epoch 662/1000
120/120 [=====] - 16s 137ms/step - loss: 146.2083 - reconstruction_error: 2.0262 - regularization_error: 85.4223 - val_loss: 861.7289 - val_reconstruction_error: 26.0933 - val_regularization_error: 78.9290
Epoch 663/1000
120/120 [=====] - 15s 121ms/step - loss: 145.8866 - reconstruction_error: 2.0122 - regularization_error: 85.5216 - val_loss: 872.2542 - val_reconstruction_error: 26.5383 - val_regularization_error: 76.1059
Epoch 664/1000
120/120 [=====] - 19s 156ms/step - loss: 145.8227 - reconstruction_error: 2.0226 - regularization_error: 85.1455 - val_loss: 864.3420 - val_reconstruction_error: 26.1247 - val_regularization_error: 80.5997
Epoch 665/1000
120/120 [=====] - 17s 142ms/step - loss: 146.3198 - reconstruction_error: 2.0238 - regularization_error: 85.6051 - val_loss: 869.7167 - val_reconstruction_error: 26.2345 - val_regularization_error: 82.6820
Epoch 666/1000
120/120 [=====] - 18s 150ms/step - loss: 145.4094 - reconstruction_error: 2.0011 - regularization_error: 85.3759 - val_loss: 876.6412 - val_reconstruction_error: 26.5250 - val_regularization_error: 80.8910
Epoch 667/1000
120/120 [=====] - 17s 139ms/step - loss: 145.7096 - reconstruction_error: 2.0101 - regularization_error: 85.4066 - val_loss: 873.4542 - val_reconstruction_error: 26.4474 - val_regularization_error: 80.0321
Epoch 668/1000
120/120 [=====] - 16s 134ms/step - loss: 146.0660 - reconstruction_error: 2.0148 - regularization_error: 85.6208 - val_loss: 875.3517 - val_reconstruction_error: 26.5952 - val_regularization_error: 77.4957
Epoch 669/1000
120/120 [=====] - 16s 132ms/step - loss: 145.7894 - reconstruction_error: 2.0195 - regularization_error: 85.2030 - val_loss: 863.5585 - val_reconstruction_error: 26.1294 - val_regularization_error: 79.6774
Epoch 670/1000
120/120 [=====] - 15s 127ms/step - loss: 147.3423 - reconstruction_error: 2.0617 - regularization_error: 85.4914 - val_loss: 873.9144 - val_reconstruction_error: 26.4513 - val_regularization_error: 80.3761
Epoch 671/1000
120/120 [=====] - ETA: 0s - loss: 146.2621 - reconstruction_error: 2.0241 - regularization_error: 85.5403
[2023-12-03 00:51:14.032554]: Reconstructing images for epoch 671 ...
```



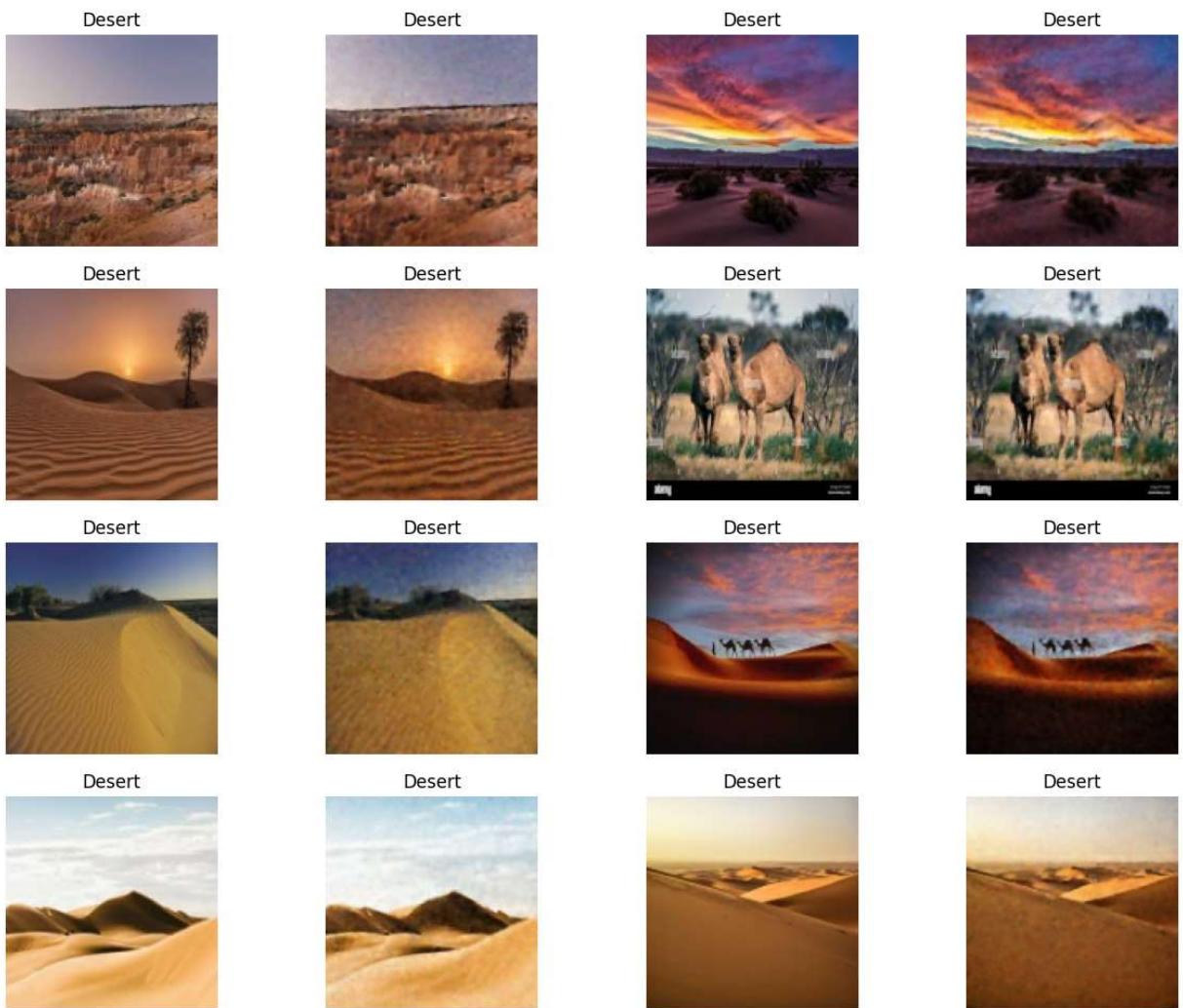
```
120/120 [=====] - 19s 158ms/step - loss: 146.2621 - reconstruction_error: 2.0241 - regularization_error: 85.5403 - val_loss: 866.1624 - val_reconstruction_error: 26.2425 - val_regularization_error: 78.8872
Epoch 672/1000
120/120 [=====] - 16s 132ms/step - loss: 146.6480 - reconstruction_error: 2.0347 - regularization_error: 85.6067 - val_loss: 889.4686 - val_reconstruction_error: 26.8419 - val_regularization_error: 84.2128
Epoch 673/1000
120/120 [=====] - 16s 129ms/step - loss: 145.9088 - reconstruction_error: 2.0220 - regularization_error: 85.2479 - val_loss: 873.8185 - val_reconstruction_error: 26.5100 - val_regularization_error: 78.5194
Epoch 674/1000
120/120 [=====] - 17s 143ms/step - loss: 145.7496 - reconstruction_error: 2.0114 - regularization_error: 85.4080 - val_loss: 865.6252 - val_reconstruction_error: 26.1244 - val_regularization_error: 81.8923
Epoch 675/1000
120/120 [=====] - 14s 112ms/step - loss: 148.3928 - reconstruction_error: 2.0880 - regularization_error: 85.7536 - val_loss: 870.5645 - val_reconstruction_error: 26.3731 - val_regularization_error: 79.3716
Epoch 676/1000
120/120 [=====] - 16s 130ms/step - loss: 147.1015 - reconstruction_error: 2.0483 - regularization_error: 85.6516 - val_loss: 877.3184 - val_reconstruction_error: 26.6230 - val_regularization_error: 78.6289
Epoch 677/1000
120/120 [=====] - 18s 146ms/step - loss: 146.4812 - reconstruction_error: 2.0339 - regularization_error: 85.4655 - val_loss: 868.5313 - val_reconstruction_error: 26.3181 - val_regularization_error: 78.9868
Epoch 678/1000
120/120 [=====] - 17s 142ms/step - loss: 147.9880 - reconstruction_error: 2.0782 - regularization_error: 85.6430 - val_loss: 877.1406 - val_reconstruction_error: 26.5875 - val_regularization_error: 79.5158
Epoch 679/1000
120/120 [=====] - 17s 141ms/step - loss: 145.3075 - reconstruction_error: 2.0060 - regularization_error: 85.1280 - val_loss: 874.6986 - val_reconstruction_error: 26.4954 - val_regularization_error: 79.8379
Epoch 680/1000
120/120 [=====] - 18s 147ms/step - loss: 144.6705 - reconstruction_error: 1.9697 - regularization_error: 85.5809 - val_loss: 874.1695 - val_reconstruction_error: 26.4623 - val_regularization_error: 80.2995
Epoch 681/1000
120/120 [=====] - ETA: 0s - loss: 146.5697 - reconstruction_error: 2.0323 - regularization_error: 85.5996
[2023-12-03 00:54:03.471440]: Reconstructing images for epoch 681 ...
```



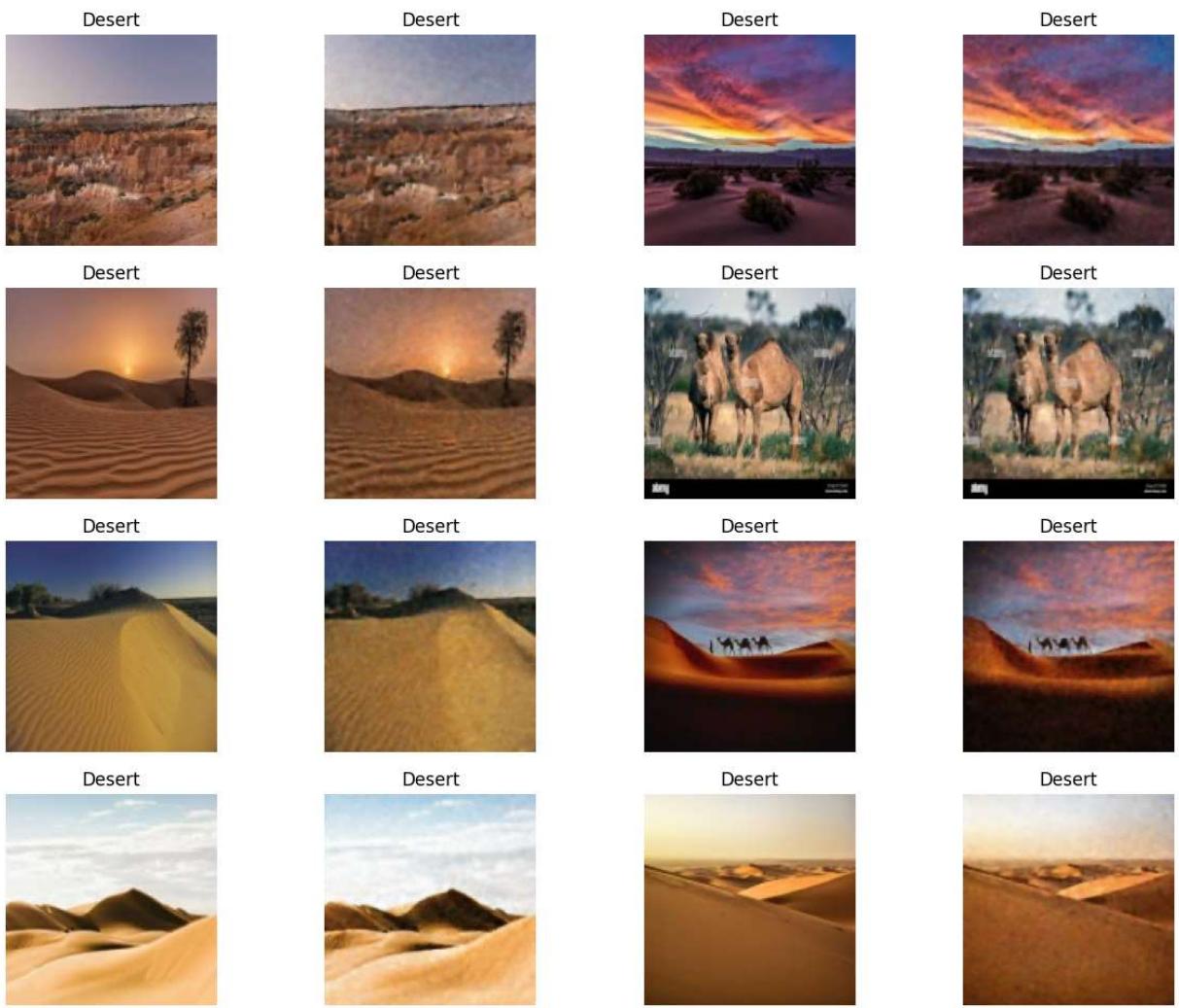
```
120/120 [=====] - 19s 155ms/step - loss: 146.5697 - reconstruction_error: 2.0323 - regularization_error: 85.5996 - val_loss: 871.9415 - val_reconstruction_error: 26.3869 - val_regularization_error: 80.3331
Epoch 682/1000
120/120 [=====] - 17s 138ms/step - loss: 145.1236 - reconstruction_error: 1.9998 - regularization_error: 85.1296 - val_loss: 878.6199 - val_reconstruction_error: 26.6619 - val_regularization_error: 78.7637
Epoch 683/1000
120/120 [=====] - 17s 142ms/step - loss: 146.7541 - reconstruction_error: 2.0433 - regularization_error: 85.4564 - val_loss: 867.7135 - val_reconstruction_error: 26.2139 - val_regularization_error: 81.2977
Epoch 684/1000
120/120 [=====] - 19s 153ms/step - loss: 146.3227 - reconstruction_error: 2.0201 - regularization_error: 85.7182 - val_loss: 874.1111 - val_reconstruction_error: 26.4469 - val_regularization_error: 80.7039
Epoch 685/1000
120/120 [=====] - 15s 125ms/step - loss: 146.7686 - reconstruction_error: 2.0387 - regularization_error: 85.6084 - val_loss: 885.6748 - val_reconstruction_error: 26.8369 - val_regularization_error: 80.5684
Epoch 686/1000
120/120 [=====] - 17s 137ms/step - loss: 146.1741 - reconstruction_error: 2.0301 - regularization_error: 85.2705 - val_loss: 884.8196 - val_reconstruction_error: 26.8928 - val_regularization_error: 78.0359
Epoch 687/1000
120/120 [=====] - 17s 140ms/step - loss: 146.8191 - reconstruction_error: 2.0442 - regularization_error: 85.4923 - val_loss: 879.5678 - val_reconstruction_error: 26.7246 - val_regularization_error: 77.8296
Epoch 688/1000
120/120 [=====] - 16s 131ms/step - loss: 144.9023 - reconstruction_error: 1.9841 - regularization_error: 85.3791 - val_loss: 876.2230 - val_reconstruction_error: 26.6055 - val_regularization_error: 78.0578
Epoch 689/1000
120/120 [=====] - 14s 116ms/step - loss: 144.9975 - reconstruction_error: 1.9892 - regularization_error: 85.3222 - val_loss: 874.4309 - val_reconstruction_error: 26.5269 - val_regularization_error: 78.6239
Epoch 690/1000
120/120 [=====] - 16s 127ms/step - loss: 145.0040 - reconstruction_error: 1.9844 - regularization_error: 85.4708 - val_loss: 875.4186 - val_reconstruction_error: 26.6470 - val_regularization_error: 76.0081
Epoch 691/1000
120/120 [=====] - ETA: 0s - loss: 145.2365 - reconstruction_error: 1.9948 - regularization_error: 85.3929
[2023-12-03 00:56:55.261481]: Reconstructing images for epoch 691 ...
```



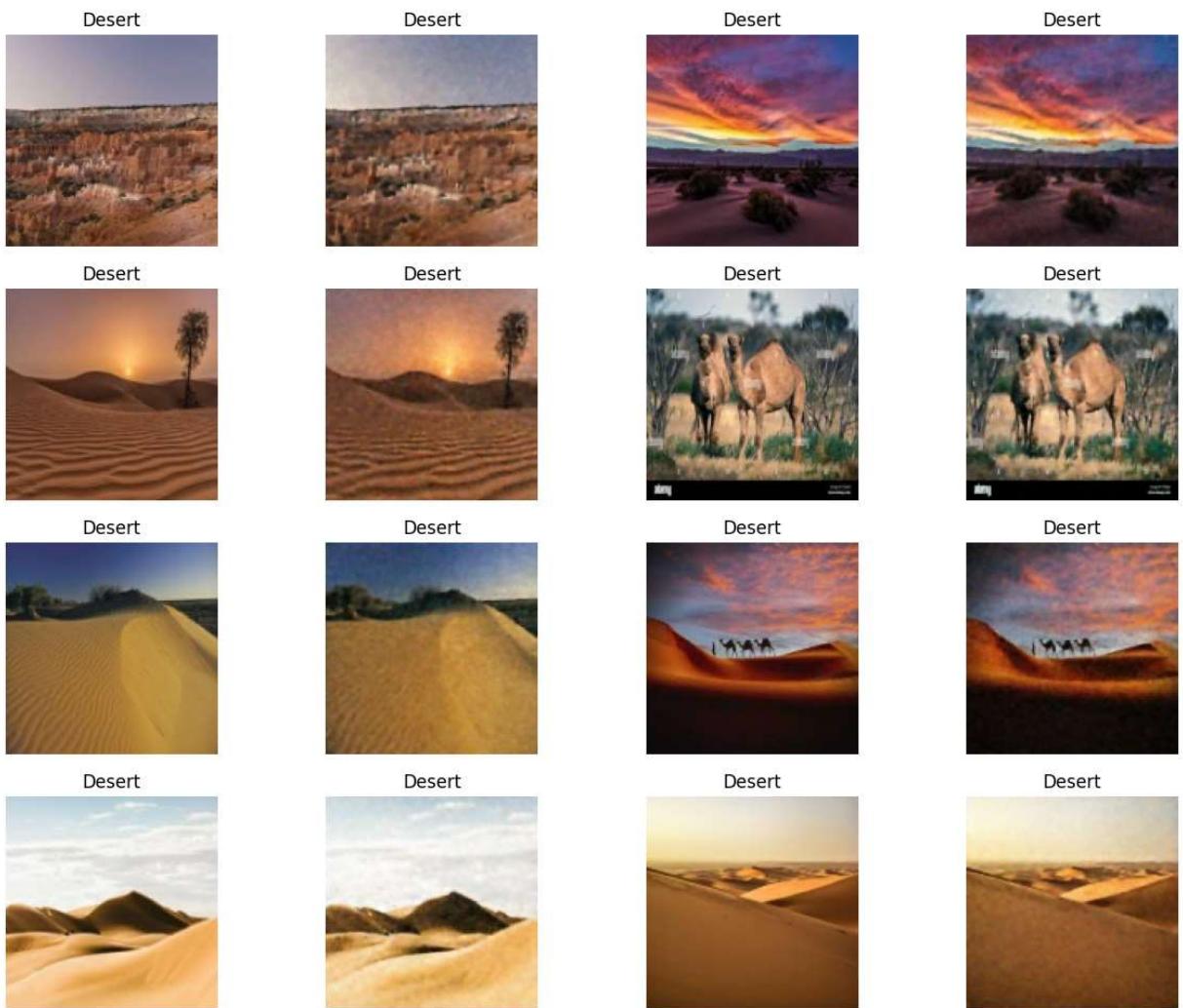
```
120/120 [=====] - 19s 154ms/step - loss: 145.2365 - reconstruction_error: 1.9948 - regularization_error: 85.3929 - val_loss: 879.2301 - val_reconstruction_error: 26.6905 - val_regularization_error: 78.5164
Epoch 692/1000
120/120 [=====] - 15s 127ms/step - loss: 146.3169 - reconstruction_error: 2.0245 - regularization_error: 85.5817 - val_loss: 880.3810 - val_reconstruction_error: 26.5887 - val_regularization_error: 82.7214
Epoch 693/1000
120/120 [=====] - 17s 138ms/step - loss: 147.3278 - reconstruction_error: 2.0617 - regularization_error: 85.4781 - val_loss: 883.6735 - val_reconstruction_error: 26.7747 - val_regularization_error: 80.4311
Epoch 694/1000
120/120 [=====] - 15s 127ms/step - loss: 145.6541 - reconstruction_error: 2.0154 - regularization_error: 85.1928 - val_loss: 868.5428 - val_reconstruction_error: 26.3886 - val_regularization_error: 76.8835
Epoch 695/1000
120/120 [=====] - 16s 132ms/step - loss: 145.2874 - reconstruction_error: 1.9952 - regularization_error: 85.4321 - val_loss: 870.0375 - val_reconstruction_error: 26.4254 - val_regularization_error: 77.2742
Epoch 696/1000
120/120 [=====] - 18s 150ms/step - loss: 144.2437 - reconstruction_error: 1.9835 - regularization_error: 84.7389 - val_loss: 880.5958 - val_reconstruction_error: 26.7216 - val_regularization_error: 78.9481
Epoch 697/1000
120/120 [=====] - 16s 134ms/step - loss: 145.2469 - reconstruction_error: 2.0016 - regularization_error: 85.1983 - val_loss: 871.8426 - val_reconstruction_error: 26.4816 - val_regularization_error: 77.3958
Epoch 698/1000
120/120 [=====] - 19s 154ms/step - loss: 144.0468 - reconstruction_error: 1.9675 - regularization_error: 85.0230 - val_loss: 874.4269 - val_reconstruction_error: 26.5093 - val_regularization_error: 79.1478
Epoch 699/1000
120/120 [=====] - 17s 138ms/step - loss: 145.7273 - reconstruction_error: 2.0202 - regularization_error: 85.1203 - val_loss: 880.0431 - val_reconstruction_error: 26.7160 - val_regularization_error: 78.5632
Epoch 700/1000
120/120 [=====] - 17s 138ms/step - loss: 146.0568 - reconstruction_error: 2.0266 - regularization_error: 85.2584 - val_loss: 877.4050 - val_reconstruction_error: 26.5979 - val_regularization_error: 79.4672
Epoch 701/1000
120/120 [=====] - ETA: 0s - loss: 146.2674 - reconstruction_error: 2.0337 - regularization_error: 85.2559
[2023-12-03 00:59:42.876518]: Reconstructing images for epoch 701 ...
```



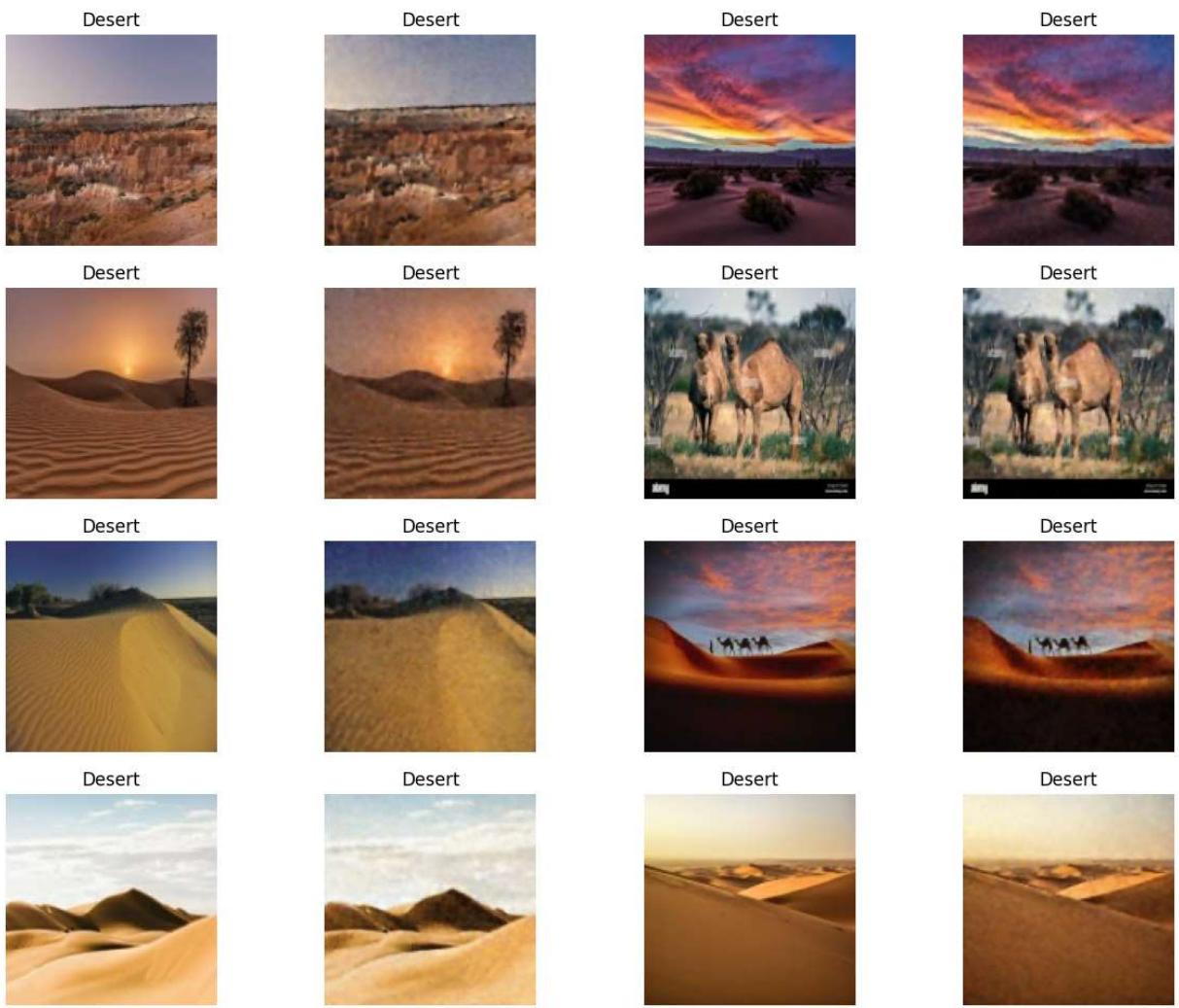
```
120/120 [=====] - 18s 146ms/step - loss: 146.2674 - reconstruction_error: 2.0337 - regularization_error: 85.2559 - val_loss: 879.6030 - val_reconstruction_error: 26.6098 - val_regularization_error: 81.3084
Epoch 702/1000
120/120 [=====] - 18s 152ms/step - loss: 147.6131 - reconstruction_error: 2.0680 - regularization_error: 85.5726 - val_loss: 895.9706 - val_reconstruction_error: 27.1854 - val_regularization_error: 80.4072
Epoch 703/1000
120/120 [=====] - 15s 126ms/step - loss: 146.3186 - reconstruction_error: 2.0299 - regularization_error: 85.4221 - val_loss: 874.4055 - val_reconstruction_error: 26.4786 - val_regularization_error: 80.0464
Epoch 704/1000
120/120 [=====] - 18s 146ms/step - loss: 145.9951 - reconstruction_error: 2.0158 - regularization_error: 85.5204 - val_loss: 872.6217 - val_reconstruction_error: 26.4446 - val_regularization_error: 79.2830
Epoch 705/1000
120/120 [=====] - 16s 129ms/step - loss: 145.1519 - reconstruction_error: 1.9983 - regularization_error: 85.2030 - val_loss: 886.1613 - val_reconstruction_error: 26.9201 - val_regularization_error: 78.5588
Epoch 706/1000
120/120 [=====] - 17s 144ms/step - loss: 147.2974 - reconstruction_error: 2.0655 - regularization_error: 85.3326 - val_loss: 879.2750 - val_reconstruction_error: 26.6178 - val_regularization_error: 80.7419
Epoch 707/1000
120/120 [=====] - 19s 155ms/step - loss: 145.8842 - reconstruction_error: 2.0156 - regularization_error: 85.4157 - val_loss: 874.0577 - val_reconstruction_error: 26.4891 - val_regularization_error: 79.3838
Epoch 708/1000
120/120 [=====] - 18s 148ms/step - loss: 144.1774 - reconstruction_error: 1.9722 - regularization_error: 85.0120 - val_loss: 881.8811 - val_reconstruction_error: 26.7625 - val_regularization_error: 79.0055
Epoch 709/1000
120/120 [=====] - 15s 122ms/step - loss: 145.4839 - reconstruction_error: 2.0108 - regularization_error: 85.1588 - val_loss: 878.9538 - val_reconstruction_error: 26.6499 - val_regularization_error: 79.4575
Epoch 710/1000
120/120 [=====] - 16s 135ms/step - loss: 144.7962 - reconstruction_error: 1.9928 - regularization_error: 85.0116 - val_loss: 875.9761 - val_reconstruction_error: 26.5885 - val_regularization_error: 78.3200
Epoch 711/1000
120/120 [=====] - ETA: 0s - loss: 144.5242 - reconstruction_error: 1.9862 - regularization_error: 84.9376
[2023-12-03 01:02:34.441468]: Reconstructing images for epoch 711 ...
```



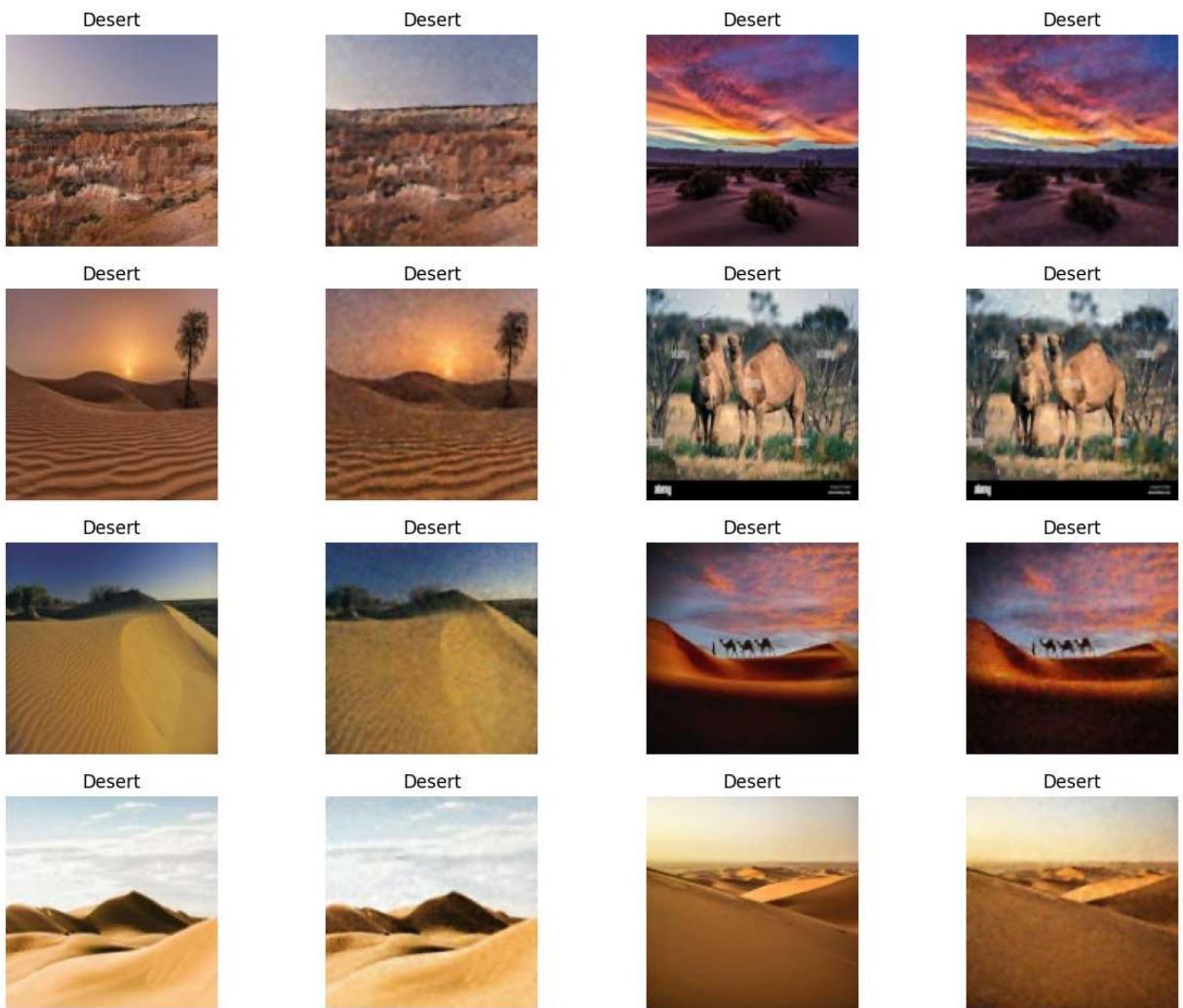
```
120/120 [=====] - 17s 144ms/step - loss: 144.5242 - reconstruction_error: 1.9862 - regularization_error: 84.9376 - val_loss: 888.1196 - val_reconstruction_error: 27.0715 - val_regularization_error: 75.9751
Epoch 712/1000
120/120 [=====] - 17s 143ms/step - loss: 144.8506 - reconstruction_error: 1.9882 - regularization_error: 85.2038 - val_loss: 886.4467 - val_reconstruction_error: 26.8831 - val_regularization_error: 79.9539
Epoch 713/1000
120/120 [=====] - 18s 146ms/step - loss: 144.2938 - reconstruction_error: 1.9713 - regularization_error: 85.1534 - val_loss: 874.8577 - val_reconstruction_error: 26.4987 - val_regularization_error: 79.8976
Epoch 714/1000
120/120 [=====] - 15s 121ms/step - loss: 144.5804 - reconstruction_error: 1.9823 - regularization_error: 85.1113 - val_loss: 872.7657 - val_reconstruction_error: 26.4662 - val_regularization_error: 78.7797
Epoch 715/1000
120/120 [=====] - 16s 135ms/step - loss: 146.2983 - reconstruction_error: 2.0337 - regularization_error: 85.2861 - val_loss: 873.3219 - val_reconstruction_error: 26.4769 - val_regularization_error: 79.0148
Epoch 716/1000
120/120 [=====] - 16s 132ms/step - loss: 145.4702 - reconstruction_error: 2.0032 - regularization_error: 85.3748 - val_loss: 882.2871 - val_reconstruction_error: 26.7146 - val_regularization_error: 80.8478
Epoch 717/1000
120/120 [=====] - 19s 159ms/step - loss: 145.4344 - reconstruction_error: 2.0041 - regularization_error: 85.3128 - val_loss: 875.5211 - val_reconstruction_error: 26.4862 - val_regularization_error: 80.9346
Epoch 718/1000
120/120 [=====] - 16s 135ms/step - loss: 144.8885 - reconstruction_error: 1.9869 - regularization_error: 85.2804 - val_loss: 877.0719 - val_reconstruction_error: 26.5040 - val_regularization_error: 81.9507
Epoch 719/1000
120/120 [=====] - 17s 142ms/step - loss: 145.4439 - reconstruction_error: 2.0025 - regularization_error: 85.3696 - val_loss: 878.0943 - val_reconstruction_error: 26.6584 - val_regularization_error: 78.3428
Epoch 720/1000
120/120 [=====] - 16s 130ms/step - loss: 145.9068 - reconstruction_error: 2.0250 - regularization_error: 85.1561 - val_loss: 881.7272 - val_reconstruction_error: 26.6886 - val_regularization_error: 81.0697
Epoch 721/1000
120/120 [=====] - ETA: 0s - loss: 145.0912 - reconstruction_error: 1.9938 - regularization_error: 85.2773
[2023-12-03 01:05:26.262482]: Reconstructing images for epoch 721 ...
```



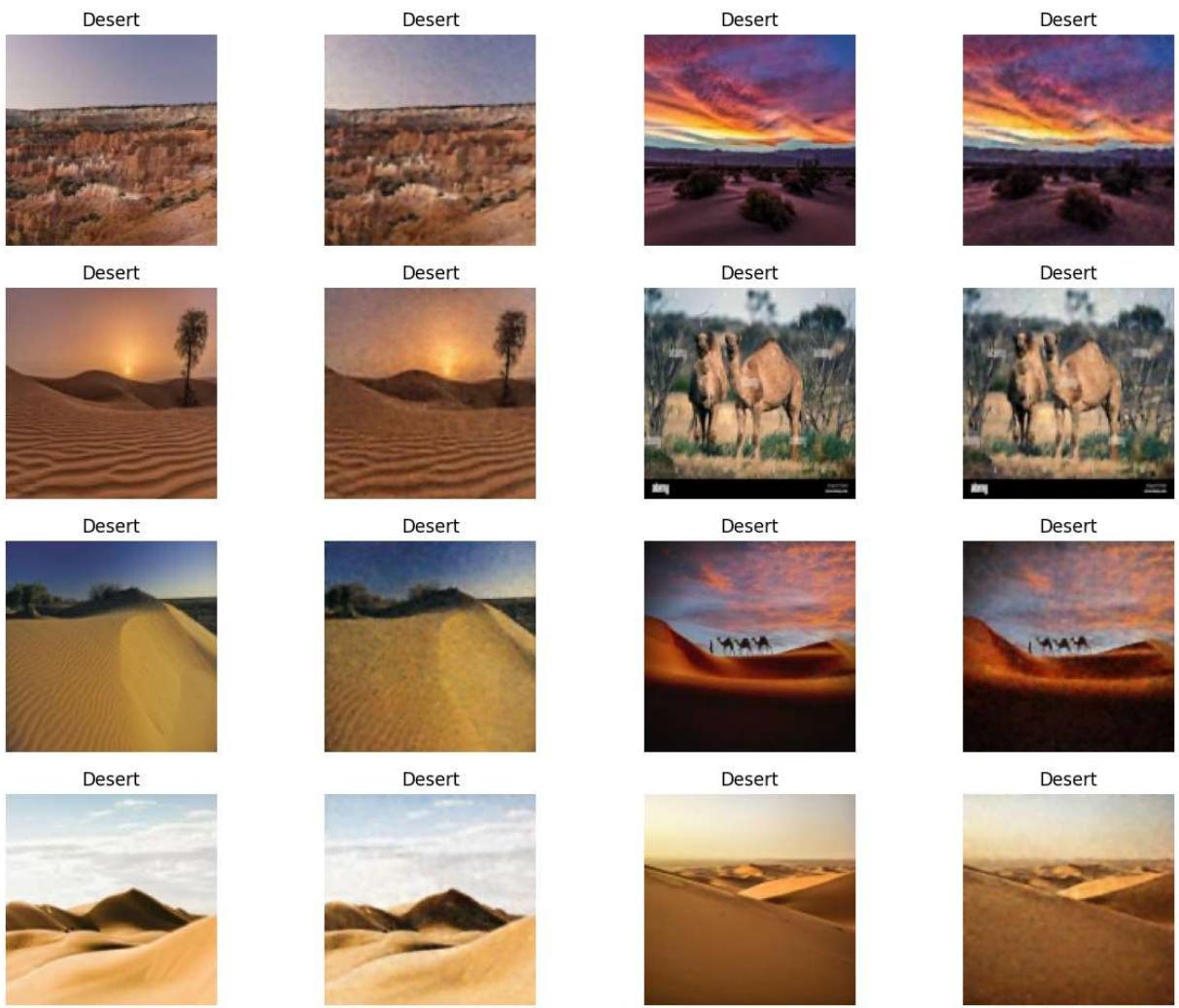
```
120/120 [=====] - 20s 168ms/step - loss: 145.0912 - reconstruction_error: 1.9938 - regularization_error: 85.2773 - val_loss: 888.8300 - val_reconstruction_error: 26.9058 - val_regularization_error: 81.6555
Epoch 722/1000
120/120 [=====] - 19s 155ms/step - loss: 144.7752 - reconstruction_error: 1.9856 - regularization_error: 85.2071 - val_loss: 876.7878 - val_reconstruction_error: 26.6002 - val_regularization_error: 78.7815
Epoch 723/1000
120/120 [=====] - 15s 121ms/step - loss: 146.6394 - reconstruction_error: 2.0408 - regularization_error: 85.4150 - val_loss: 879.5983 - val_reconstruction_error: 26.6521 - val_regularization_error: 80.0362
Epoch 724/1000
120/120 [=====] - 19s 154ms/step - loss: 143.9517 - reconstruction_error: 1.9637 - regularization_error: 85.0417 - val_loss: 879.6669 - val_reconstruction_error: 26.6196 - val_regularization_error: 81.0801
Epoch 725/1000
120/120 [=====] - 15s 126ms/step - loss: 144.3190 - reconstruction_error: 1.9766 - regularization_error: 85.0216 - val_loss: 878.3983 - val_reconstruction_error: 26.6910 - val_regularization_error: 77.6693
Epoch 726/1000
120/120 [=====] - 17s 142ms/step - loss: 144.7570 - reconstruction_error: 1.9922 - regularization_error: 84.9901 - val_loss: 869.8301 - val_reconstruction_error: 26.3829 - val_regularization_error: 78.3418
Epoch 727/1000
120/120 [=====] - 19s 159ms/step - loss: 146.1089 - reconstruction_error: 2.0247 - regularization_error: 85.3687 - val_loss: 875.1104 - val_reconstruction_error: 26.4939 - val_regularization_error: 80.2939
Epoch 728/1000
120/120 [=====] - 18s 149ms/step - loss: 146.7857 - reconstruction_error: 2.0398 - regularization_error: 85.5930 - val_loss: 879.3821 - val_reconstruction_error: 26.5004 - val_regularization_error: 84.3696
Epoch 729/1000
120/120 [=====] - 17s 142ms/step - loss: 144.7769 - reconstruction_error: 1.9869 - regularization_error: 85.1686 - val_loss: 875.5079 - val_reconstruction_error: 26.4732 - val_regularization_error: 81.3130
Epoch 730/1000
120/120 [=====] - 18s 148ms/step - loss: 144.7257 - reconstruction_error: 1.9831 - regularization_error: 85.2317 - val_loss: 881.7598 - val_reconstruction_error: 26.7642 - val_regularization_error: 78.8333
Epoch 731/1000
120/120 [=====] - ETA: 0s - loss: 146.7944 - reconstruction_error: 2.0493 - regularization_error: 85.3167
[2023-12-03 01:08:20.334526]: Reconstructing images for epoch 731 ...
```



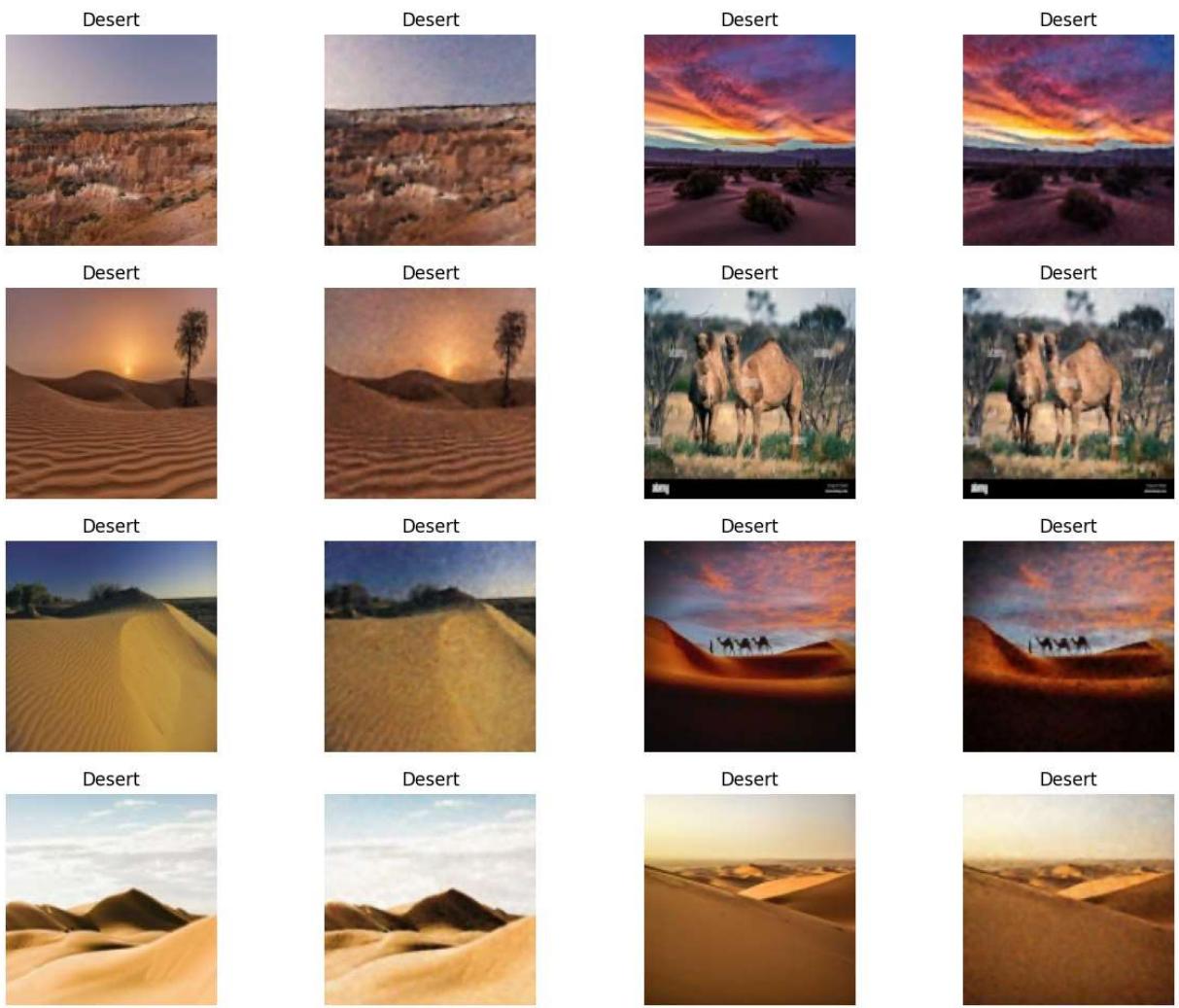
```
120/120 [=====] - 16s 132ms/step - loss: 146.7944 - reconstruction_error: 2.0493 - regularization_error: 85.3167 - val_loss: 881.5361 - val_reconstruction_error: 26.7415 - val_regularization_error: 79.2896
Epoch 732/1000
120/120 [=====] - 15s 121ms/step - loss: 146.4375 - reconstruction_error: 2.0399 - regularization_error: 85.2418 - val_loss: 883.6783 - val_reconstruction_error: 26.7290 - val_regularization_error: 81.8094
Epoch 733/1000
120/120 [=====] - 16s 129ms/step - loss: 143.8324 - reconstruction_error: 1.9696 - regularization_error: 84.7456 - val_loss: 877.4742 - val_reconstruction_error: 26.6091 - val_regularization_error: 79.2007
Epoch 734/1000
120/120 [=====] - 17s 138ms/step - loss: 144.7731 - reconstruction_error: 1.9853 - regularization_error: 85.2145 - val_loss: 872.9208 - val_reconstruction_error: 26.4630 - val_regularization_error: 79.0304
Epoch 735/1000
120/120 [=====] - 19s 157ms/step - loss: 146.3913 - reconstruction_error: 2.0314 - regularization_error: 85.4503 - val_loss: 880.8035 - val_reconstruction_error: 26.6283 - val_regularization_error: 81.9560
Epoch 736/1000
120/120 [=====] - 14s 117ms/step - loss: 145.6325 - reconstruction_error: 2.0156 - regularization_error: 85.1657 - val_loss: 877.4415 - val_reconstruction_error: 26.6079 - val_regularization_error: 79.2040
Epoch 737/1000
120/120 [=====] - 18s 153ms/step - loss: 144.7225 - reconstruction_error: 1.9917 - regularization_error: 84.9721 - val_loss: 882.3051 - val_reconstruction_error: 26.7981 - val_regularization_error: 78.3628
Epoch 738/1000
120/120 [=====] - 19s 158ms/step - loss: 143.5178 - reconstruction_error: 1.9547 - regularization_error: 84.8762 - val_loss: 873.4730 - val_reconstruction_error: 26.4470 - val_regularization_error: 80.0619
Epoch 739/1000
120/120 [=====] - 16s 134ms/step - loss: 143.7058 - reconstruction_error: 1.9645 - regularization_error: 84.7713 - val_loss: 885.1078 - val_reconstruction_error: 26.8607 - val_regularization_error: 79.2875
Epoch 740/1000
120/120 [=====] - 17s 145ms/step - loss: 143.5375 - reconstruction_error: 1.9532 - regularization_error: 84.9410 - val_loss: 880.7832 - val_reconstruction_error: 26.6216 - val_regularization_error: 82.1365
Epoch 741/1000
120/120 [=====] - ETA: 0s - loss: 145.3599 - reconstruction_error: 2.0069 - regularization_error: 85.1524
[2023-12-03 01:11:08.371560]: Reconstructing images for epoch 741 ...
```



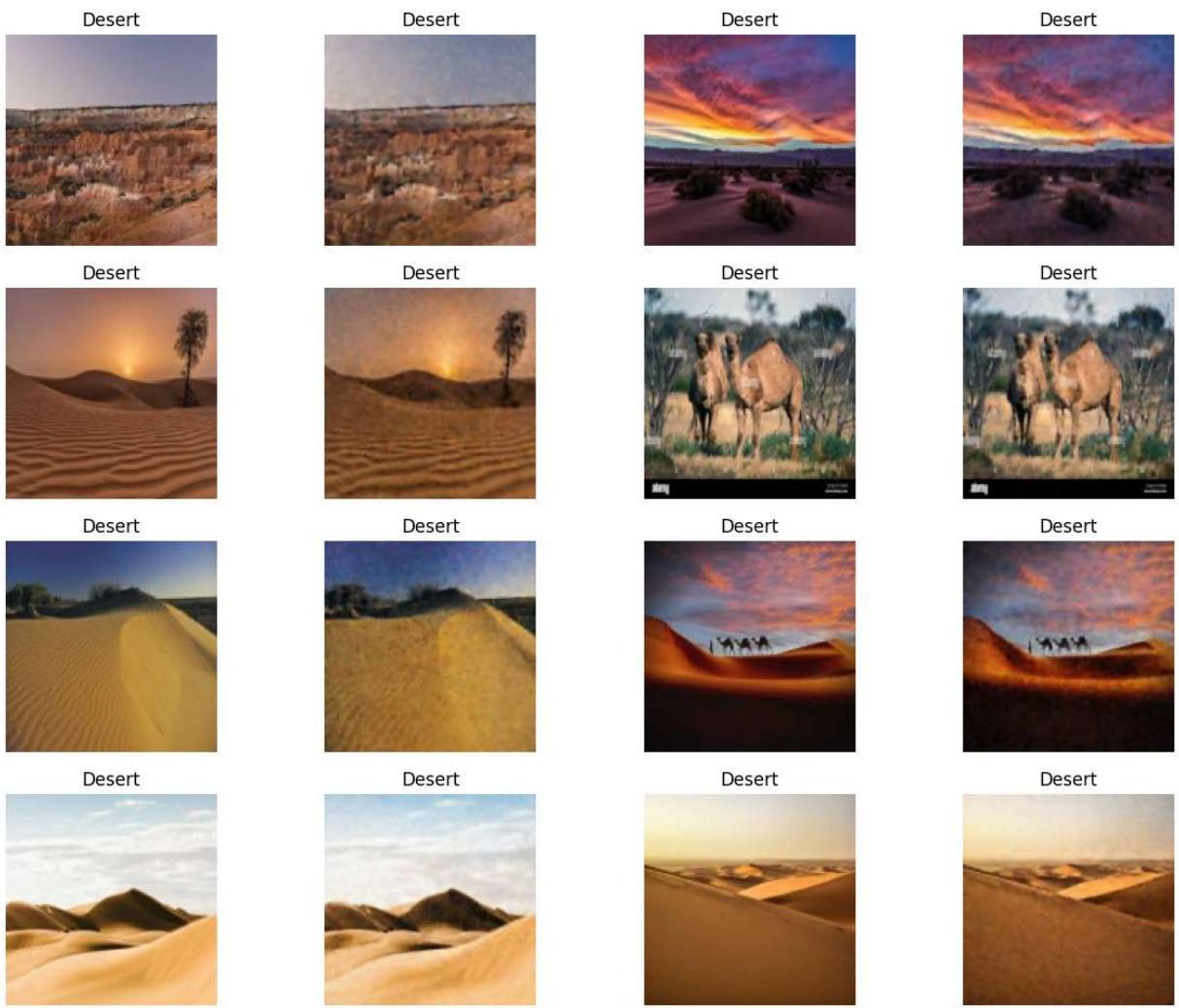
```
120/120 [=====] - 16s 136ms/step - loss: 145.3599 - reconstruction_error: 2.0069 - regularization_error: 85.1524 - val_loss: 884.9090 - val_reconstruction_error: 26.8162 - val_regularization_error: 80.4228
Epoch 742/1000
120/120 [=====] - 14s 118ms/step - loss: 145.1328 - reconstruction_error: 1.9992 - regularization_error: 85.1556 - val_loss: 882.6955 - val_reconstruction_error: 26.7047 - val_regularization_error: 81.5535
Epoch 743/1000
120/120 [=====] - 17s 137ms/step - loss: 145.1077 - reconstruction_error: 1.9976 - regularization_error: 85.1783 - val_loss: 883.7736 - val_reconstruction_error: 26.8563 - val_regularization_error: 78.0849
Epoch 744/1000
120/120 [=====] - 18s 152ms/step - loss: 143.9029 - reconstruction_error: 1.9526 - regularization_error: 85.3236 - val_loss: 874.7926 - val_reconstruction_error: 26.5336 - val_regularization_error: 78.7846
Epoch 745/1000
120/120 [=====] - 15s 128ms/step - loss: 145.1964 - reconstruction_error: 2.0012 - regularization_error: 85.1610 - val_loss: 881.1973 - val_reconstruction_error: 26.7138 - val_regularization_error: 79.7842
Epoch 746/1000
120/120 [=====] - 19s 159ms/step - loss: 146.7659 - reconstruction_error: 2.0500 - regularization_error: 85.2668 - val_loss: 886.8915 - val_reconstruction_error: 26.7939 - val_regularization_error: 83.0756
Epoch 747/1000
120/120 [=====] - 18s 150ms/step - loss: 144.9442 - reconstruction_error: 2.0005 - regularization_error: 84.9283 - val_loss: 883.0263 - val_reconstruction_error: 26.8149 - val_regularization_error: 78.5783
Epoch 748/1000
120/120 [=====] - 16s 134ms/step - loss: 143.1355 - reconstruction_error: 1.9480 - regularization_error: 84.6944 - val_loss: 879.8160 - val_reconstruction_error: 26.6696 - val_regularization_error: 79.7286
Epoch 749/1000
120/120 [=====] - 18s 154ms/step - loss: 143.7271 - reconstruction_error: 1.9623 - regularization_error: 84.8585 - val_loss: 880.5421 - val_reconstruction_error: 26.7387 - val_regularization_error: 78.3798
Epoch 750/1000
120/120 [=====] - 14s 120ms/step - loss: 144.2439 - reconstruction_error: 1.9789 - regularization_error: 84.8768 - val_loss: 883.7116 - val_reconstruction_error: 26.8207 - val_regularization_error: 79.0906
Epoch 751/1000
120/120 [=====] - ETA: 0s - loss: 144.3922 - reconstruction_error: 1.9841 - regularization_error: 84.8678
[2023-12-03 01:14:00.246042]: Reconstructing images for epoch 751 ...
```



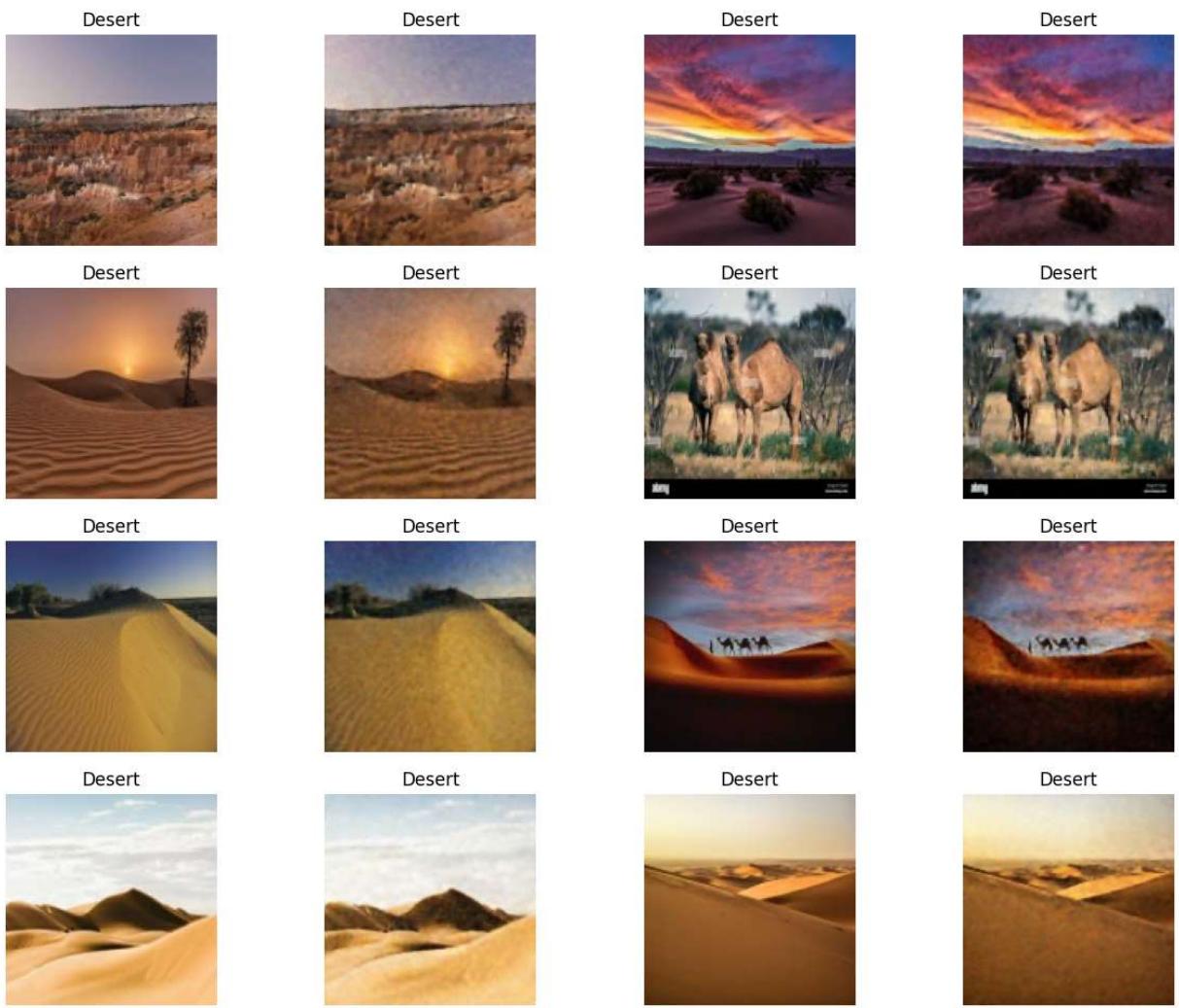
```
120/120 [=====] - 21s 173ms/step - loss: 144.3922 - reconstruction_error: 1.9841 - regularization_error: 84.8678 - val_loss: 891.2623 - val_reconstruction_error: 27.1165 - val_regularization_error: 77.7684
Epoch 752/1000
120/120 [=====] - 15s 128ms/step - loss: 145.1664 - reconstruction_error: 2.0025 - regularization_error: 85.0904 - val_loss: 877.5049 - val_reconstruction_error: 26.5935 - val_regularization_error: 79.7015
Epoch 753/1000
120/120 [=====] - 16s 126ms/step - loss: 144.8529 - reconstruction_error: 1.9928 - regularization_error: 85.0680 - val_loss: 881.4661 - val_reconstruction_error: 26.7649 - val_regularization_error: 78.5197
Epoch 754/1000
120/120 [=====] - 20s 161ms/step - loss: 143.6243 - reconstruction_error: 1.9588 - regularization_error: 84.8596 - val_loss: 876.9988 - val_reconstruction_error: 26.6104 - val_regularization_error: 78.6860
Epoch 755/1000
120/120 [=====] - 17s 145ms/step - loss: 145.5155 - reconstruction_error: 2.0101 - regularization_error: 85.2127 - val_loss: 874.3705 - val_reconstruction_error: 26.4343 - val_regularization_error: 81.3407
Epoch 756/1000
120/120 [=====] - 17s 145ms/step - loss: 143.3488 - reconstruction_error: 1.9489 - regularization_error: 84.8831 - val_loss: 879.8005 - val_reconstruction_error: 26.7916 - val_regularization_error: 76.0515
Epoch 757/1000
120/120 [=====] - 18s 146ms/step - loss: 145.5318 - reconstruction_error: 2.0105 - regularization_error: 85.2176 - val_loss: 881.3953 - val_reconstruction_error: 26.7203 - val_regularization_error: 79.7864
Epoch 758/1000
120/120 [=====] - 19s 162ms/step - loss: 146.0283 - reconstruction_error: 2.0331 - regularization_error: 85.0347 - val_loss: 888.4442 - val_reconstruction_error: 26.9632 - val_regularization_error: 79.5490
Epoch 759/1000
120/120 [=====] - 19s 156ms/step - loss: 146.2005 - reconstruction_error: 2.0330 - regularization_error: 85.2092 - val_loss: 887.1650 - val_reconstruction_error: 26.9890 - val_regularization_error: 77.4941
Epoch 760/1000
120/120 [=====] - 18s 144ms/step - loss: 146.0829 - reconstruction_error: 2.0230 - regularization_error: 85.3929 - val_loss: 888.4975 - val_reconstruction_error: 26.9442 - val_regularization_error: 80.1702
Epoch 761/1000
120/120 [=====] - ETA: 0s - loss: 145.2484 - reconstruction_error: 2.0102 - regularization_error: 84.9430
[2023-12-03 01:16:59.628747]: Reconstructing images for epoch 761 ...
```



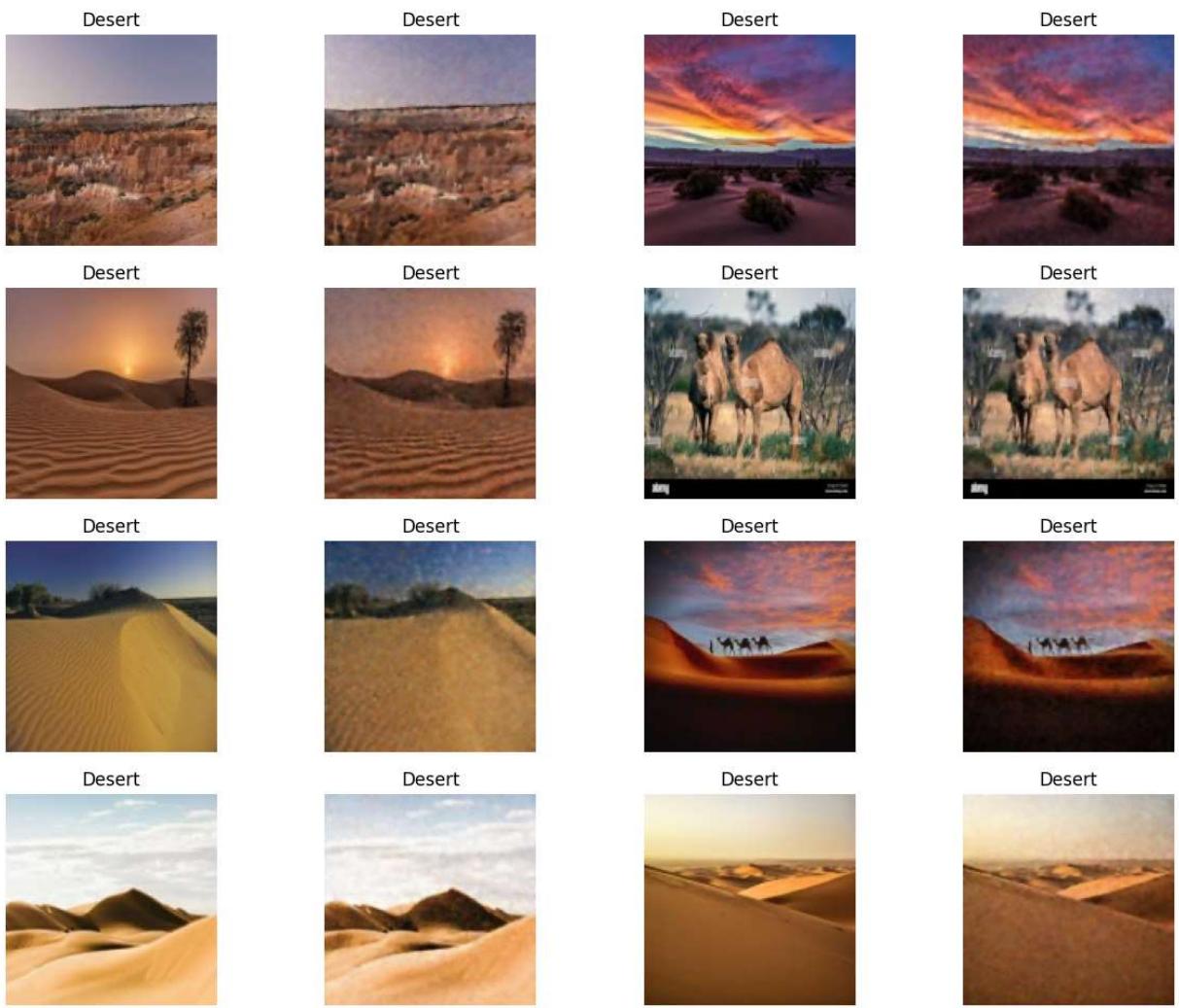
```
120/120 [=====] - 18s 149ms/step - loss: 145.2484 - reconstruction_error: 2.0102 - regularization_error: 84.9430 - val_loss: 878.5758 - val_reconstruction_error: 26.5909 - val_regularization_error: 80.8497
Epoch 762/1000
120/120 [=====] - 16s 137ms/step - loss: 145.7811 - reconstruction_error: 2.0185 - regularization_error: 85.2266 - val_loss: 882.6309 - val_reconstruction_error: 26.7057 - val_regularization_error: 81.4593
Epoch 763/1000
120/120 [=====] - 15s 122ms/step - loss: 144.3179 - reconstruction_error: 1.9801 - regularization_error: 84.9150 - val_loss: 873.1339 - val_reconstruction_error: 26.4021 - val_regularization_error: 81.0703
Epoch 764/1000
120/120 [=====] - 14s 112ms/step - loss: 145.8868 - reconstruction_error: 2.0219 - regularization_error: 85.2297 - val_loss: 886.4457 - val_reconstruction_error: 26.9674 - val_regularization_error: 77.4241
Epoch 765/1000
120/120 [=====] - 13s 109ms/step - loss: 143.3976 - reconstruction_error: 1.9589 - regularization_error: 84.6301 - val_loss: 894.3381 - val_reconstruction_error: 27.1926 - val_regularization_error: 78.5607
Epoch 766/1000
120/120 [=====] - 15s 119ms/step - loss: 144.0038 - reconstruction_error: 1.9678 - regularization_error: 84.9706 - val_loss: 881.9563 - val_reconstruction_error: 26.8066 - val_regularization_error: 77.7585
Epoch 767/1000
120/120 [=====] - 16s 129ms/step - loss: 143.9300 - reconstruction_error: 1.9590 - regularization_error: 85.1587 - val_loss: 879.4775 - val_reconstruction_error: 26.7093 - val_regularization_error: 78.1997
Epoch 768/1000
120/120 [=====] - 16s 127ms/step - loss: 143.8017 - reconstruction_error: 1.9673 - regularization_error: 84.7812 - val_loss: 881.8595 - val_reconstruction_error: 26.7939 - val_regularization_error: 78.0416
Epoch 769/1000
120/120 [=====] - 16s 130ms/step - loss: 143.7571 - reconstruction_error: 1.9662 - regularization_error: 84.7703 - val_loss: 884.2448 - val_reconstruction_error: 26.8754 - val_regularization_error: 77.9830
Epoch 770/1000
120/120 [=====] - 17s 141ms/step - loss: 142.9059 - reconstruction_error: 1.9451 - regularization_error: 84.5533 - val_loss: 885.6202 - val_reconstruction_error: 26.9166 - val_regularization_error: 78.1230
Epoch 771/1000
120/120 [=====] - ETA: 0s - loss: 144.0411 - reconstruction_error: 1.9749 - regularization_error: 84.7942
[2023-12-03 01:19:37.398182]: Reconstructing images for epoch 771 ...
```



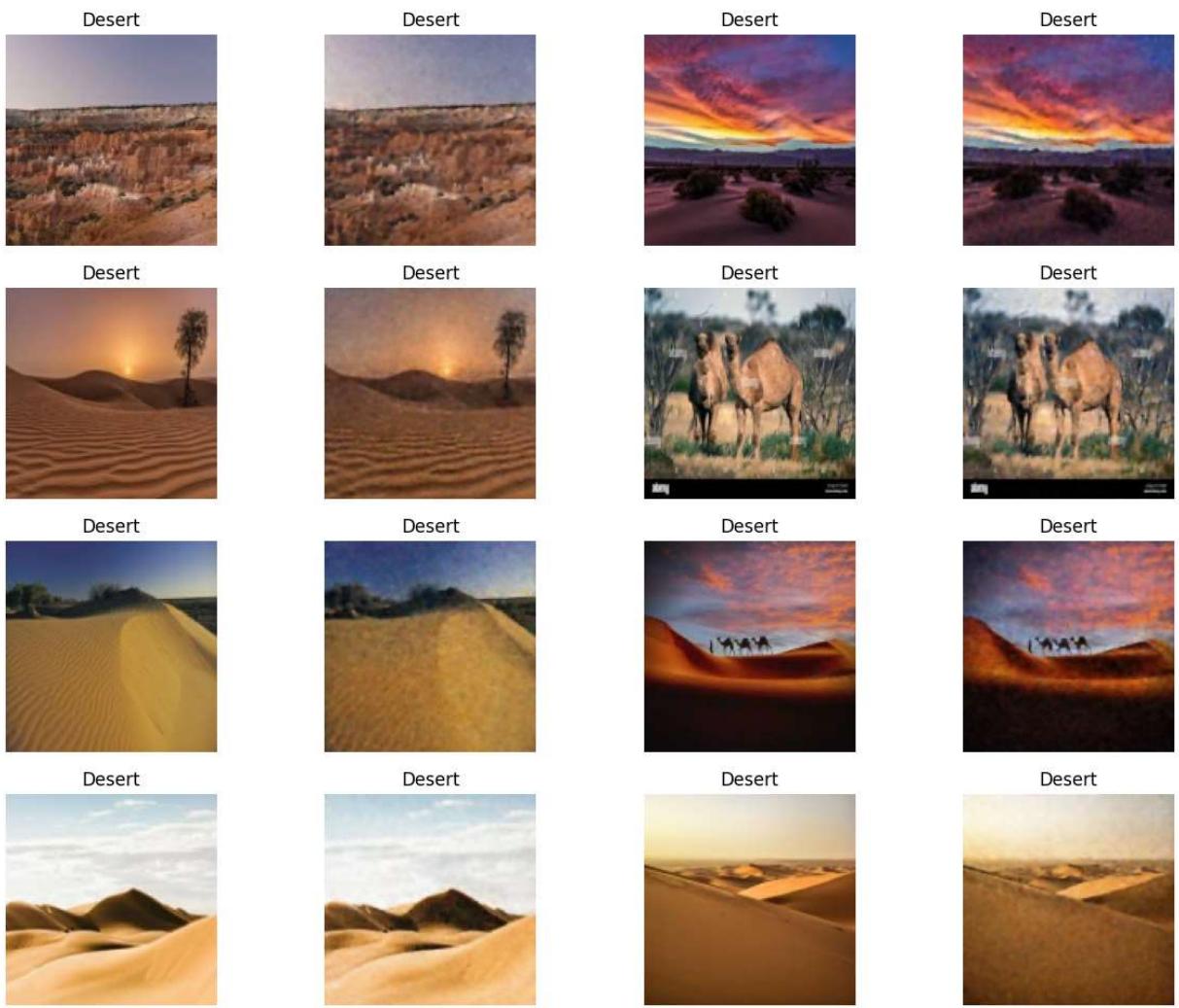
```
120/120 [=====] - 18s 147ms/step - loss: 144.0411 - reconstruction_error: 1.9749 - regularization_error: 84.7942 - val_loss: 886.0053 - val_reconstruction_error: 26.9691 - val_regularization_error: 76.9326
Epoch 772/1000
120/120 [=====] - 15s 122ms/step - loss: 143.1555 - reconstruction_error: 1.9489 - regularization_error: 84.6892 - val_loss: 884.5999 - val_reconstruction_error: 26.8741 - val_regularization_error: 78.3769
Epoch 773/1000
120/120 [=====] - 15s 128ms/step - loss: 143.4765 - reconstruction_error: 1.9610 - regularization_error: 84.6464 - val_loss: 880.7661 - val_reconstruction_error: 26.7821 - val_regularization_error: 77.3029
Epoch 774/1000
120/120 [=====] - 16s 135ms/step - loss: 144.4937 - reconstruction_error: 1.9897 - regularization_error: 84.8022 - val_loss: 887.8984 - val_reconstruction_error: 27.0346 - val_regularization_error: 76.8614
Epoch 775/1000
120/120 [=====] - 15s 125ms/step - loss: 143.2364 - reconstruction_error: 1.9498 - regularization_error: 84.7421 - val_loss: 880.5999 - val_reconstruction_error: 26.7968 - val_regularization_error: 76.6966
Epoch 776/1000
120/120 [=====] - 16s 131ms/step - loss: 142.1103 - reconstruction_error: 1.9164 - regularization_error: 84.6180 - val_loss: 883.1946 - val_reconstruction_error: 26.8513 - val_regularization_error: 77.6559
Epoch 777/1000
120/120 [=====] - 17s 137ms/step - loss: 143.6753 - reconstruction_error: 1.9708 - regularization_error: 84.5510 - val_loss: 894.0925 - val_reconstruction_error: 27.0903 - val_regularization_error: 81.3835
Epoch 778/1000
120/120 [=====] - 18s 152ms/step - loss: 145.0646 - reconstruction_error: 2.0018 - regularization_error: 85.0109 - val_loss: 885.9456 - val_reconstruction_error: 26.8846 - val_regularization_error: 79.4065
Epoch 779/1000
120/120 [=====] - 15s 126ms/step - loss: 143.4234 - reconstruction_error: 1.9499 - regularization_error: 84.9270 - val_loss: 890.6808 - val_reconstruction_error: 27.0780 - val_regularization_error: 78.3410
Epoch 780/1000
120/120 [=====] - 18s 146ms/step - loss: 143.2178 - reconstruction_error: 1.9553 - regularization_error: 84.5600 - val_loss: 870.4161 - val_reconstruction_error: 26.3427 - val_regularization_error: 80.1350
Epoch 781/1000
120/120 [=====] - ETA: 0s - loss: 144.2045 - reconstruction_error: 1.9790 - regularization_error: 84.8358
[2023-12-03 01:22:24.896464]: Reconstructing images for epoch 781 ...
```



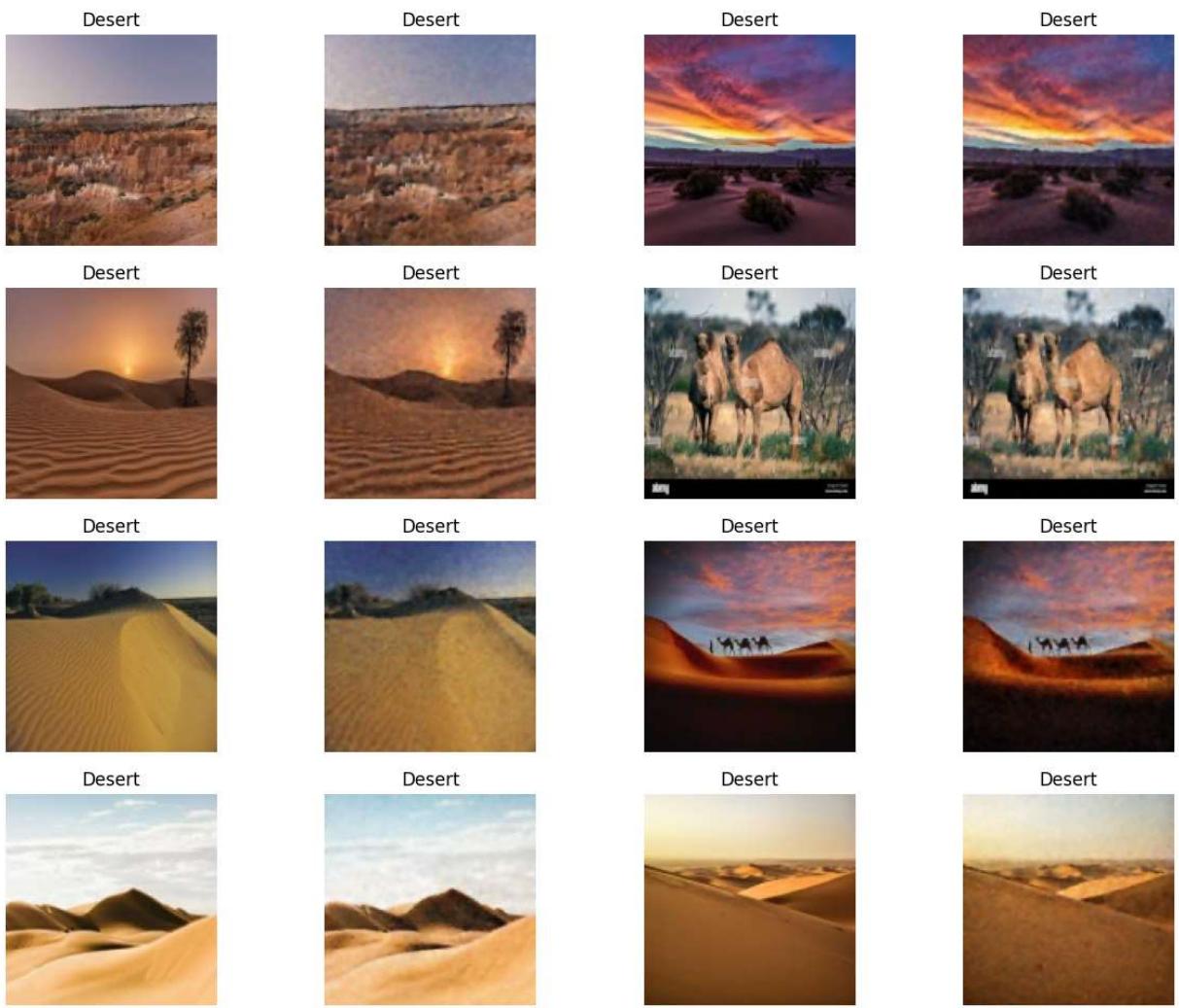
```
120/120 [=====] - 19s 159ms/step - loss: 144.2045 - reconstruction_error: 1.9790 - regularization_error: 84.8358 - val_loss: 886.4764 - val_reconstruction_error: 26.9918 - val_regularization_error: 76.7236
Epoch 782/1000
120/120 [=====] - 18s 153ms/step - loss: 143.7692 - reconstruction_error: 1.9690 - regularization_error: 84.6992 - val_loss: 879.2936 - val_reconstruction_error: 26.7888 - val_regularization_error: 75.6289
Epoch 783/1000
120/120 [=====] - 14s 113ms/step - loss: 145.2036 - reconstruction_error: 2.0168 - regularization_error: 84.7003 - val_loss: 894.2686 - val_reconstruction_error: 27.2253 - val_regularization_error: 77.5097
Epoch 784/1000
120/120 [=====] - 18s 145ms/step - loss: 144.0410 - reconstruction_error: 1.9777 - regularization_error: 84.7109 - val_loss: 879.0513 - val_reconstruction_error: 26.6519 - val_regularization_error: 79.4952
Epoch 785/1000
120/120 [=====] - 19s 156ms/step - loss: 143.1030 - reconstruction_error: 1.9455 - regularization_error: 84.7367 - val_loss: 889.3061 - val_reconstruction_error: 27.0151 - val_regularization_error: 78.8539
Epoch 786/1000
120/120 [=====] - 13s 112ms/step - loss: 144.4346 - reconstruction_error: 1.9888 - regularization_error: 84.7692 - val_loss: 890.0927 - val_reconstruction_error: 26.9748 - val_regularization_error: 80.8501
Epoch 787/1000
120/120 [=====] - 17s 143ms/step - loss: 143.7506 - reconstruction_error: 1.9652 - regularization_error: 84.7933 - val_loss: 884.8856 - val_reconstruction_error: 26.8848 - val_regularization_error: 78.3417
Epoch 788/1000
120/120 [=====] - 17s 140ms/step - loss: 146.7044 - reconstruction_error: 2.0396 - regularization_error: 85.5173 - val_loss: 882.6400 - val_reconstruction_error: 26.8363 - val_regularization_error: 77.5513
Epoch 789/1000
120/120 [=====] - 17s 136ms/step - loss: 144.1835 - reconstruction_error: 1.9757 - regularization_error: 84.9123 - val_loss: 889.0010 - val_reconstruction_error: 26.9898 - val_regularization_error: 79.3072
Epoch 790/1000
120/120 [=====] - 13s 104ms/step - loss: 144.8892 - reconstruction_error: 2.0082 - regularization_error: 84.6443 - val_loss: 882.0086 - val_reconstruction_error: 26.8361 - val_regularization_error: 76.9253
Epoch 791/1000
120/120 [=====] - ETA: 0s - loss: 143.9854 - reconstruction_error: 1.9863 - regularization_error: 84.3960
[2023-12-03 01:25:10.491059]: Reconstructing images for epoch 791 ...
```



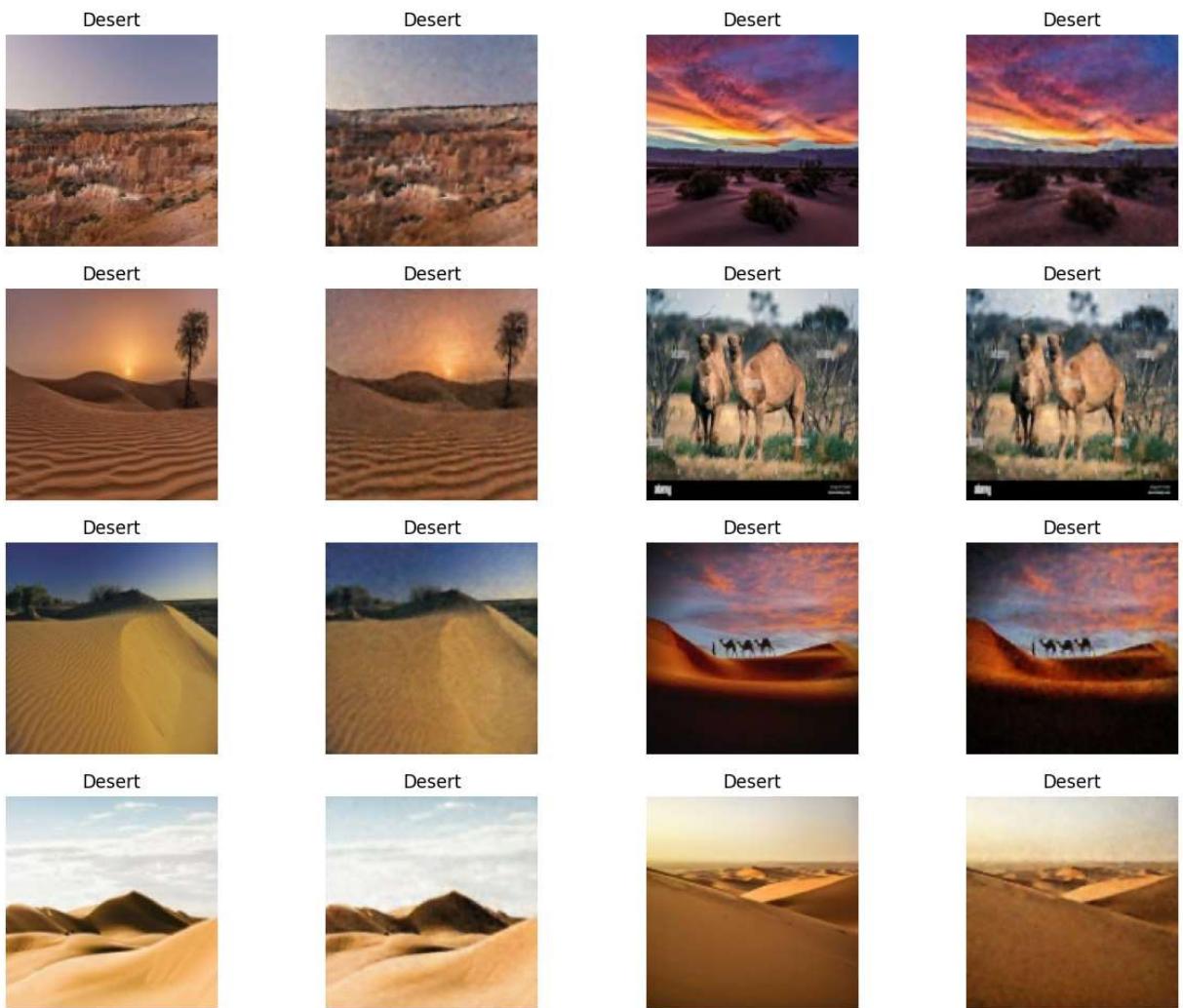
```
120/120 [=====] - 19s 157ms/step - loss: 143.9854 - reconstruction_error: 1.9863 - regularization_error: 84.3960 - val_loss: 906.5930 - val_reconstruction_error: 27.5349 - val_regularization_error: 80.5454
Epoch 792/1000
120/120 [=====] - 17s 146ms/step - loss: 144.2291 - reconstruction_error: 1.9679 - regularization_error: 85.1920 - val_loss: 885.0662 - val_reconstruction_error: 26.9328 - val_regularization_error: 77.0822
Epoch 793/1000
120/120 [=====] - 16s 137ms/step - loss: 143.0753 - reconstruction_error: 1.9469 - regularization_error: 84.6673 - val_loss: 884.4210 - val_reconstruction_error: 26.8219 - val_regularization_error: 79.7649
Epoch 794/1000
120/120 [=====] - 19s 155ms/step - loss: 142.9688 - reconstruction_error: 1.9485 - regularization_error: 84.5144 - val_loss: 884.1832 - val_reconstruction_error: 26.8817 - val_regularization_error: 77.7321
Epoch 795/1000
120/120 [=====] - 17s 140ms/step - loss: 143.5404 - reconstruction_error: 1.9561 - regularization_error: 84.8583 - val_loss: 884.3500 - val_reconstruction_error: 26.8590 - val_regularization_error: 78.5807
Epoch 796/1000
120/120 [=====] - 16s 131ms/step - loss: 142.2989 - reconstruction_error: 1.9304 - regularization_error: 84.3880 - val_loss: 890.7054 - val_reconstruction_error: 27.1065 - val_regularization_error: 77.5113
Epoch 797/1000
120/120 [=====] - 17s 136ms/step - loss: 143.5195 - reconstruction_error: 1.9633 - regularization_error: 84.6211 - val_loss: 892.9935 - val_reconstruction_error: 27.1632 - val_regularization_error: 78.0981
Epoch 798/1000
120/120 [=====] - 15s 127ms/step - loss: 144.3185 - reconstruction_error: 1.9847 - regularization_error: 84.7762 - val_loss: 880.8835 - val_reconstruction_error: 26.8127 - val_regularization_error: 76.5039
Epoch 799/1000
120/120 [=====] - 18s 150ms/step - loss: 145.0529 - reconstruction_error: 2.0106 - regularization_error: 84.7347 - val_loss: 877.0618 - val_reconstruction_error: 26.6870 - val_regularization_error: 76.4514
Epoch 800/1000
120/120 [=====] - 16s 136ms/step - loss: 143.0516 - reconstruction_error: 1.9505 - regularization_error: 84.5373 - val_loss: 890.8392 - val_reconstruction_error: 26.9816 - val_regularization_error: 81.3916
Epoch 801/1000
119/120 [=====.>.] - ETA: 0s - loss: 143.1000 - reconstruction_error: 1.9610 - regularization_error: 84.2688
[2023-12-03 01:28:03.136434]: Reconstructing images for epoch 801 ...
```



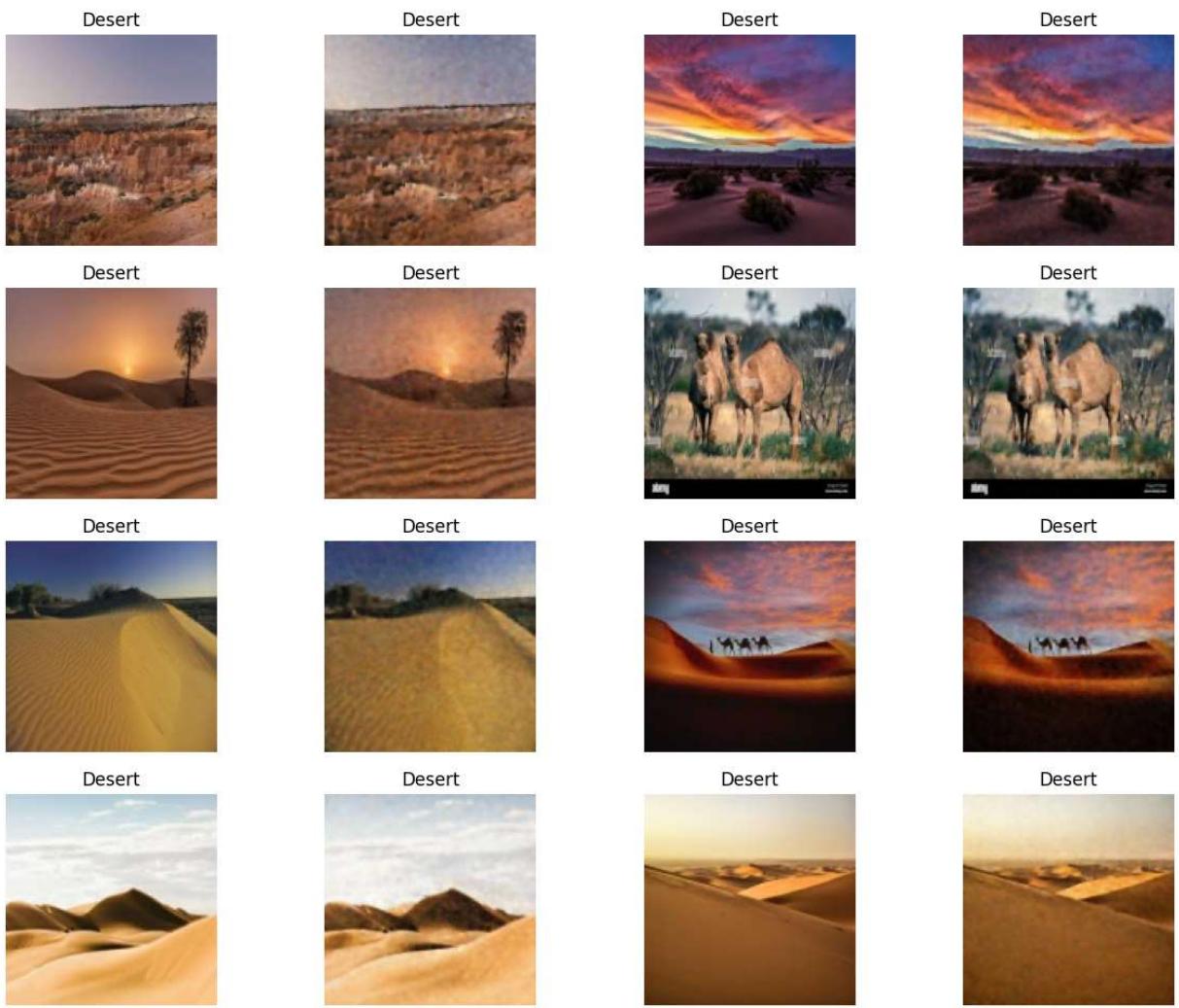
```
120/120 [=====] - 19s 158ms/step - loss: 143.1619 - reconstruction_error: 1.9632 - regularization_error: 84.2662 - val_loss: 885.1520 - val_reconstruction_error: 26.9428 - val_regularization_error: 76.8687
Epoch 802/1000
120/120 [=====] - 17s 145ms/step - loss: 143.2766 - reconstruction_error: 1.9547 - regularization_error: 84.6365 - val_loss: 890.4794 - val_reconstruction_error: 27.0751 - val_regularization_error: 78.2273
Epoch 803/1000
120/120 [=====] - 17s 140ms/step - loss: 142.1876 - reconstruction_error: 1.9334 - regularization_error: 84.1855 - val_loss: 877.7870 - val_reconstruction_error: 26.6213 - val_regularization_error: 79.1475
Epoch 804/1000
120/120 [=====] - 15s 116ms/step - loss: 142.6129 - reconstruction_error: 1.9407 - regularization_error: 84.3907 - val_loss: 883.5369 - val_reconstruction_error: 26.7801 - val_regularization_error: 80.1345
Epoch 805/1000
120/120 [=====] - 15s 126ms/step - loss: 142.6591 - reconstruction_error: 1.9342 - regularization_error: 84.6332 - val_loss: 884.5750 - val_reconstruction_error: 26.9252 - val_regularization_error: 76.8183
Epoch 806/1000
120/120 [=====] - 16s 130ms/step - loss: 143.9348 - reconstruction_error: 1.9716 - regularization_error: 84.7854 - val_loss: 886.7567 - val_reconstruction_error: 26.8903 - val_regularization_error: 80.0473
Epoch 807/1000
120/120 [=====] - 17s 137ms/step - loss: 143.5300 - reconstruction_error: 1.9602 - regularization_error: 84.7243 - val_loss: 886.8438 - val_reconstruction_error: 26.8795 - val_regularization_error: 80.4586
Epoch 808/1000
120/120 [=====] - 16s 132ms/step - loss: 144.5995 - reconstruction_error: 1.9828 - regularization_error: 85.1141 - val_loss: 884.6945 - val_reconstruction_error: 26.9214 - val_regularization_error: 77.0530
Epoch 809/1000
120/120 [=====] - 15s 122ms/step - loss: 142.6014 - reconstruction_error: 1.9357 - regularization_error: 84.5301 - val_loss: 891.4637 - val_reconstruction_error: 27.1670 - val_regularization_error: 76.4529
Epoch 810/1000
120/120 [=====] - 18s 147ms/step - loss: 142.6080 - reconstruction_error: 1.9441 - regularization_error: 84.2851 - val_loss: 900.5392 - val_reconstruction_error: 27.4309 - val_regularization_error: 77.6128
Epoch 811/1000
120/120 [=====] - ETA: 0s - loss: 143.5962 - reconstruction_error: 1.9566 - regularization_error: 84.8975
[2023-12-03 01:30:50.141398]: Reconstructing images for epoch 811 ...
```



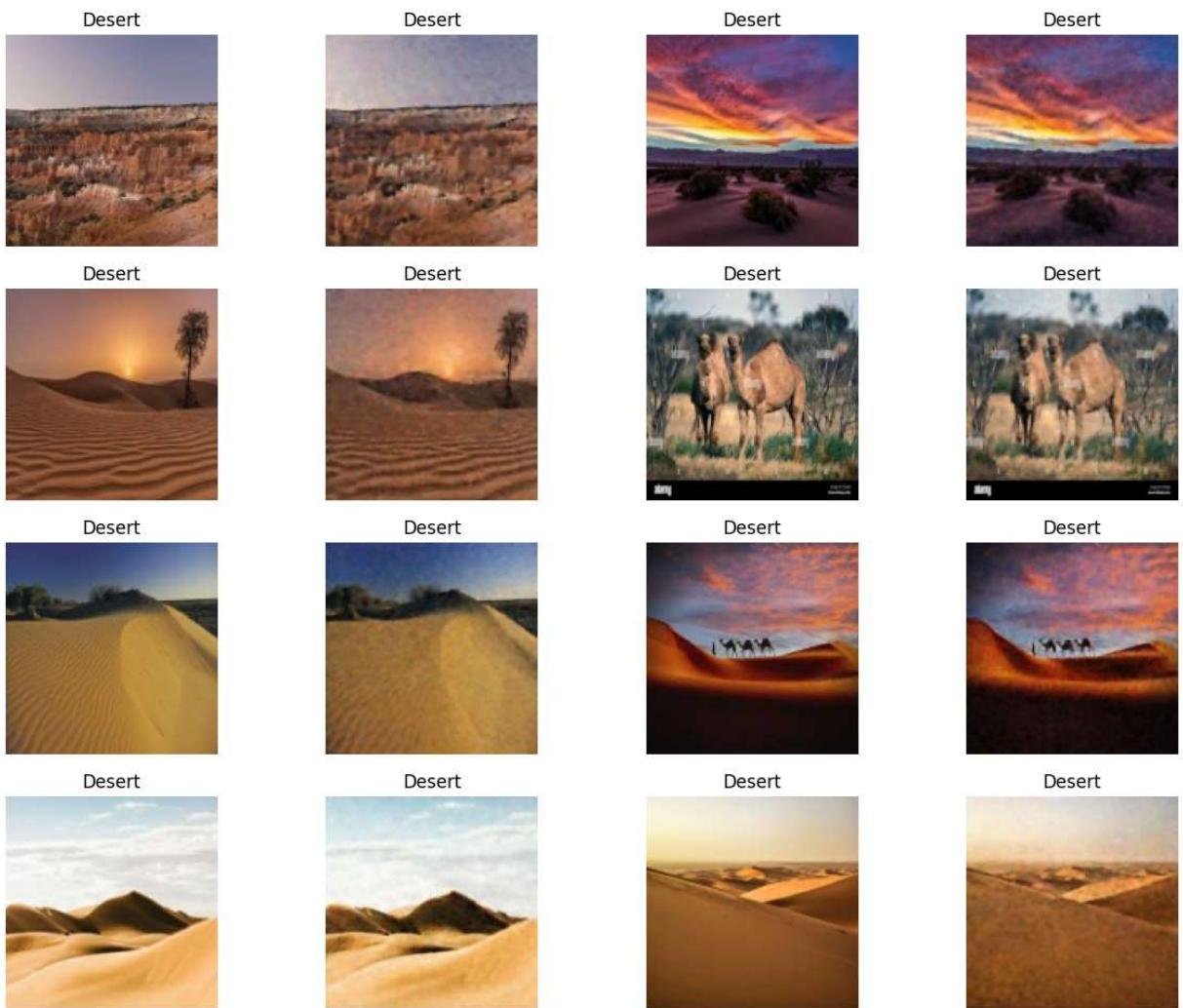
```
120/120 [=====] - 18s 145ms/step - loss: 143.5962 - reconstruction_error: 1.9566 - regularization_error: 84.8975 - val_loss: 886.9861 - val_reconstruction_error: 26.9827 - val_regularization_error: 77.5055
Epoch 812/1000
120/120 [=====] - 14s 116ms/step - loss: 142.0652 - reconstruction_error: 1.9214 - regularization_error: 84.4240 - val_loss: 881.2141 - val_reconstruction_error: 26.6750 - val_regularization_error: 80.9627
Epoch 813/1000
120/120 [=====] - 16s 135ms/step - loss: 142.9550 - reconstruction_error: 1.9379 - regularization_error: 84.8173 - val_loss: 881.3104 - val_reconstruction_error: 26.6823 - val_regularization_error: 80.8406
Epoch 814/1000
120/120 [=====] - 18s 145ms/step - loss: 143.8501 - reconstruction_error: 1.9687 - regularization_error: 84.7906 - val_loss: 889.1583 - val_reconstruction_error: 26.9668 - val_regularization_error: 80.1539
Epoch 815/1000
120/120 [=====] - 18s 148ms/step - loss: 142.9275 - reconstruction_error: 1.9462 - regularization_error: 84.5408 - val_loss: 884.0858 - val_reconstruction_error: 26.7694 - val_regularization_error: 81.0042
Epoch 816/1000
120/120 [=====] - 16s 131ms/step - loss: 143.2281 - reconstruction_error: 1.9466 - regularization_error: 84.8308 - val_loss: 880.4703 - val_reconstruction_error: 26.6613 - val_regularization_error: 80.6313
Epoch 817/1000
120/120 [=====] - 15s 120ms/step - loss: 143.6649 - reconstruction_error: 1.9621 - regularization_error: 84.8018 - val_loss: 890.3625 - val_reconstruction_error: 27.1265 - val_regularization_error: 76.5681
Epoch 818/1000
120/120 [=====] - 16s 135ms/step - loss: 142.2878 - reconstruction_error: 1.9207 - regularization_error: 84.6653 - val_loss: 884.2327 - val_reconstruction_error: 26.8227 - val_regularization_error: 79.5503
Epoch 819/1000
120/120 [=====] - 16s 130ms/step - loss: 146.0461 - reconstruction_error: 2.0374 - regularization_error: 84.9242 - val_loss: 887.8500 - val_reconstruction_error: 26.9900 - val_regularization_error: 78.1487
Epoch 820/1000
120/120 [=====] - 13s 111ms/step - loss: 143.6058 - reconstruction_error: 1.9606 - regularization_error: 84.7886 - val_loss: 879.6420 - val_reconstruction_error: 26.7236 - val_regularization_error: 77.9344
Epoch 821/1000
120/120 [=====] - ETA: 0s - loss: 143.3315 - reconstruction_error: 1.9542 - regularization_error: 84.7050
[2023-12-03 01:33:30.728501]: Reconstructing images for epoch 821 ...
```



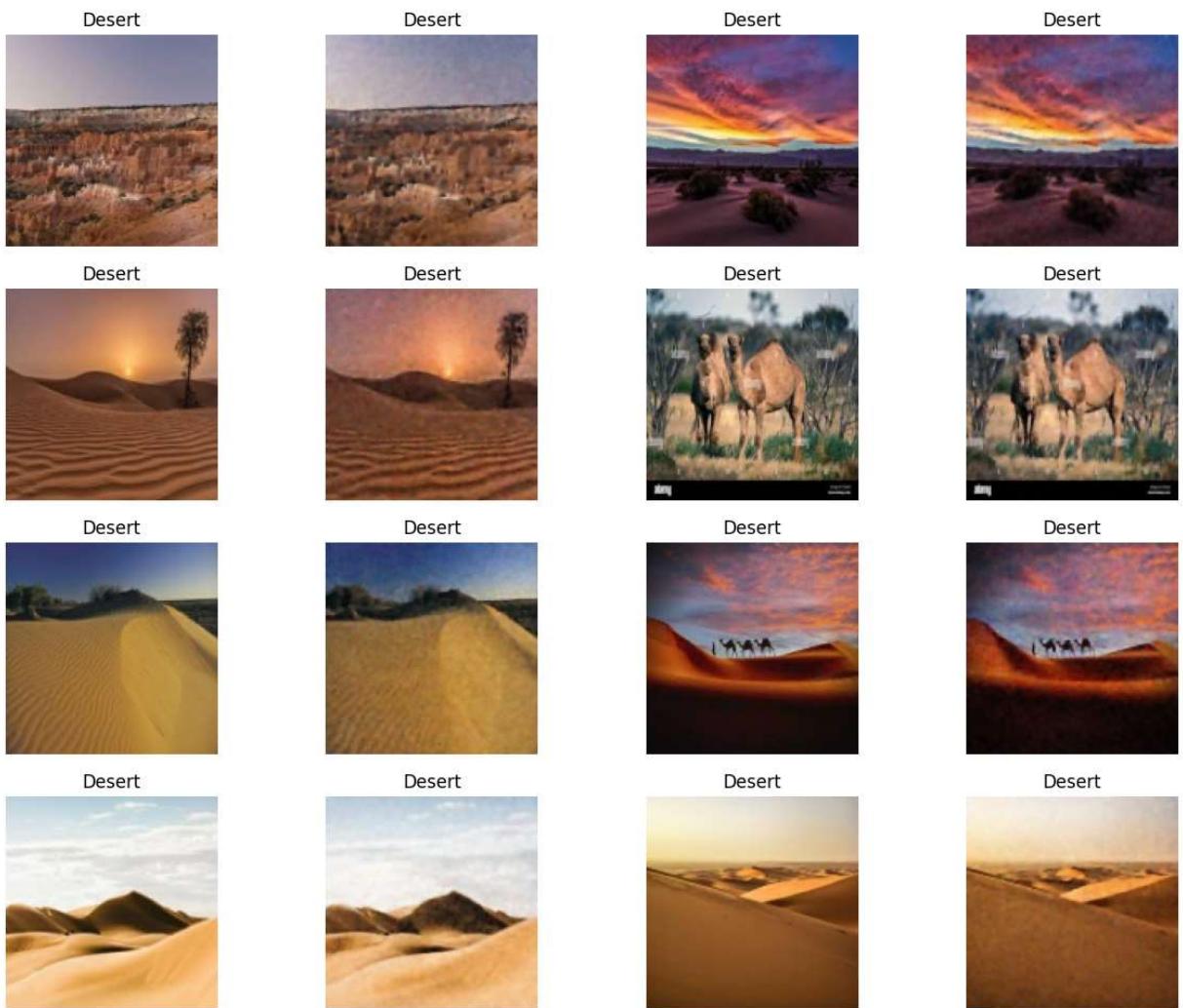
```
120/120 [=====] - 18s 148ms/step - loss: 143.3315 - reconstruction_error: 1.9542 - regularization_error: 84.7050 - val_loss: 881.9407 - val_reconstruction_error: 26.7587 - val_regularization_error: 79.1797
Epoch 822/1000
120/120 [=====] - 15s 123ms/step - loss: 143.0424 - reconstruction_error: 1.9544 - regularization_error: 84.4112 - val_loss: 889.8951 - val_reconstruction_error: 27.0416 - val_regularization_error: 78.6458
Epoch 823/1000
120/120 [=====] - 15s 124ms/step - loss: 144.2426 - reconstruction_error: 1.9885 - regularization_error: 84.5891 - val_loss: 881.6758 - val_reconstruction_error: 26.7084 - val_regularization_error: 80.4235
Epoch 824/1000
120/120 [=====] - 17s 138ms/step - loss: 143.9293 - reconstruction_error: 1.9649 - regularization_error: 84.9818 - val_loss: 887.4376 - val_reconstruction_error: 26.9954 - val_regularization_error: 77.5741
Epoch 825/1000
120/120 [=====] - 16s 135ms/step - loss: 143.4782 - reconstruction_error: 1.9637 - regularization_error: 84.5665 - val_loss: 890.9939 - val_reconstruction_error: 27.0963 - val_regularization_error: 78.1057
Epoch 826/1000
120/120 [=====] - 15s 123ms/step - loss: 142.7069 - reconstruction_error: 1.9413 - regularization_error: 84.4681 - val_loss: 891.5170 - val_reconstruction_error: 27.1066 - val_regularization_error: 78.3181
Epoch 827/1000
120/120 [=====] - 13s 107ms/step - loss: 142.1722 - reconstruction_error: 1.9259 - regularization_error: 84.3953 - val_loss: 893.1596 - val_reconstruction_error: 27.2285 - val_regularization_error: 76.3040
Epoch 828/1000
120/120 [=====] - 16s 128ms/step - loss: 143.8107 - reconstruction_error: 1.9719 - regularization_error: 84.6526 - val_loss: 881.0450 - val_reconstruction_error: 26.7138 - val_regularization_error: 79.6307
Epoch 829/1000
120/120 [=====] - 17s 141ms/step - loss: 144.8085 - reconstruction_error: 1.9979 - regularization_error: 84.8701 - val_loss: 889.2207 - val_reconstruction_error: 27.0099 - val_regularization_error: 78.9244
Epoch 830/1000
120/120 [=====] - 17s 144ms/step - loss: 143.4941 - reconstruction_error: 1.9721 - regularization_error: 84.3311 - val_loss: 910.8613 - val_reconstruction_error: 27.8236 - val_regularization_error: 76.1523
Epoch 831/1000
119/120 [=====.>.] - ETA: 0s - loss: 144.7786 - reconstruction_error: 1.9930 - regularization_error: 84.9879
[2023-12-03 01:36:11.889816]: Reconstructing images for epoch 831 ...
```



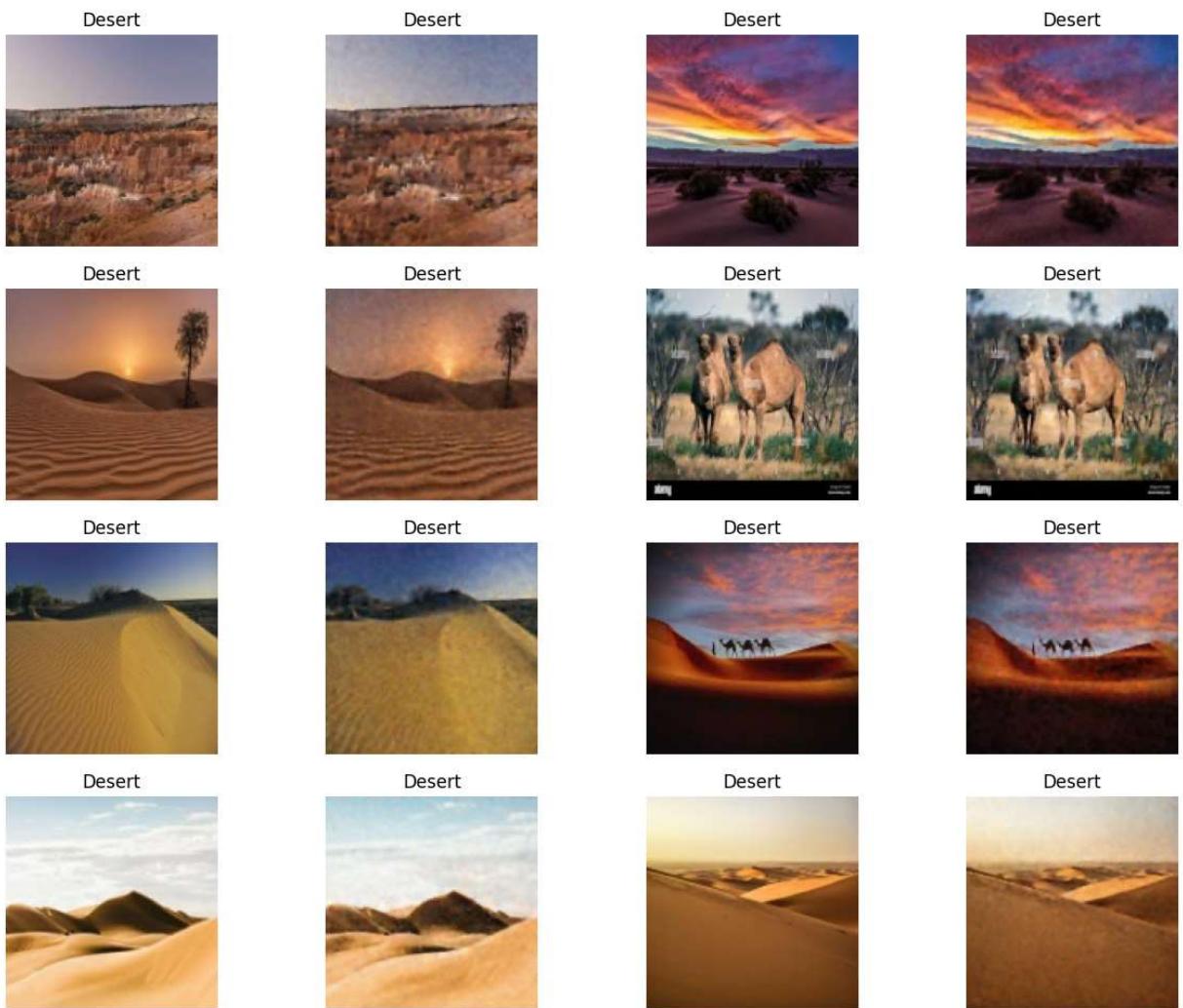
```
120/120 [=====] - 19s 160ms/step - loss: 144.7104 - reconstruction_error: 1.9929 - regularization_error: 84.9222 - val_loss: 891.4722 - val_reconstruction_error: 27.1628 - val_regularization_error: 76.5893
Epoch 832/1000
120/120 [=====] - 17s 144ms/step - loss: 141.5854 - reconstruction_error: 1.9195 - regularization_error: 83.9992 - val_loss: 885.0090 - val_reconstruction_error: 26.8202 - val_regularization_error: 80.4043
Epoch 833/1000
120/120 [=====] - 13s 109ms/step - loss: 142.9457 - reconstruction_error: 1.9542 - regularization_error: 84.3183 - val_loss: 904.4183 - val_reconstruction_error: 27.6083 - val_regularization_error: 76.1686
Epoch 834/1000
120/120 [=====] - 17s 137ms/step - loss: 145.2354 - reconstruction_error: 2.0192 - regularization_error: 84.6608 - val_loss: 896.2914 - val_reconstruction_error: 27.1985 - val_regularization_error: 80.3350
Epoch 835/1000
120/120 [=====] - 19s 154ms/step - loss: 142.7327 - reconstruction_error: 1.9386 - regularization_error: 84.5756 - val_loss: 879.3407 - val_reconstruction_error: 26.6593 - val_regularization_error: 79.5610
Epoch 836/1000
120/120 [=====] - 19s 159ms/step - loss: 142.0151 - reconstruction_error: 1.9263 - regularization_error: 84.2253 - val_loss: 899.4437 - val_reconstruction_error: 27.4451 - val_regularization_error: 76.0895
Epoch 837/1000
120/120 [=====] - 17s 142ms/step - loss: 142.9288 - reconstruction_error: 1.9541 - regularization_error: 84.3064 - val_loss: 884.3273 - val_reconstruction_error: 26.8569 - val_regularization_error: 78.6215
Epoch 838/1000
120/120 [=====] - 18s 149ms/step - loss: 141.7473 - reconstruction_error: 1.9207 - regularization_error: 84.1271 - val_loss: 901.8767 - val_reconstruction_error: 27.5444 - val_regularization_error: 75.5447
Epoch 839/1000
120/120 [=====] - 14s 120ms/step - loss: 142.7234 - reconstruction_error: 1.9364 - regularization_error: 84.6327 - val_loss: 886.5594 - val_reconstruction_error: 26.8629 - val_regularization_error: 80.6724
Epoch 840/1000
120/120 [=====] - 18s 147ms/step - loss: 143.6385 - reconstruction_error: 1.9629 - regularization_error: 84.7507 - val_loss: 886.0419 - val_reconstruction_error: 26.9547 - val_regularization_error: 77.4011
Epoch 841/1000
120/120 [=====] - ETA: 0s - loss: 143.4903 - reconstruction_error: 1.9694 - regularization_error: 84.4079
[2023-12-03 01:39:04.365834]: Reconstructing images for epoch 841 ...
```



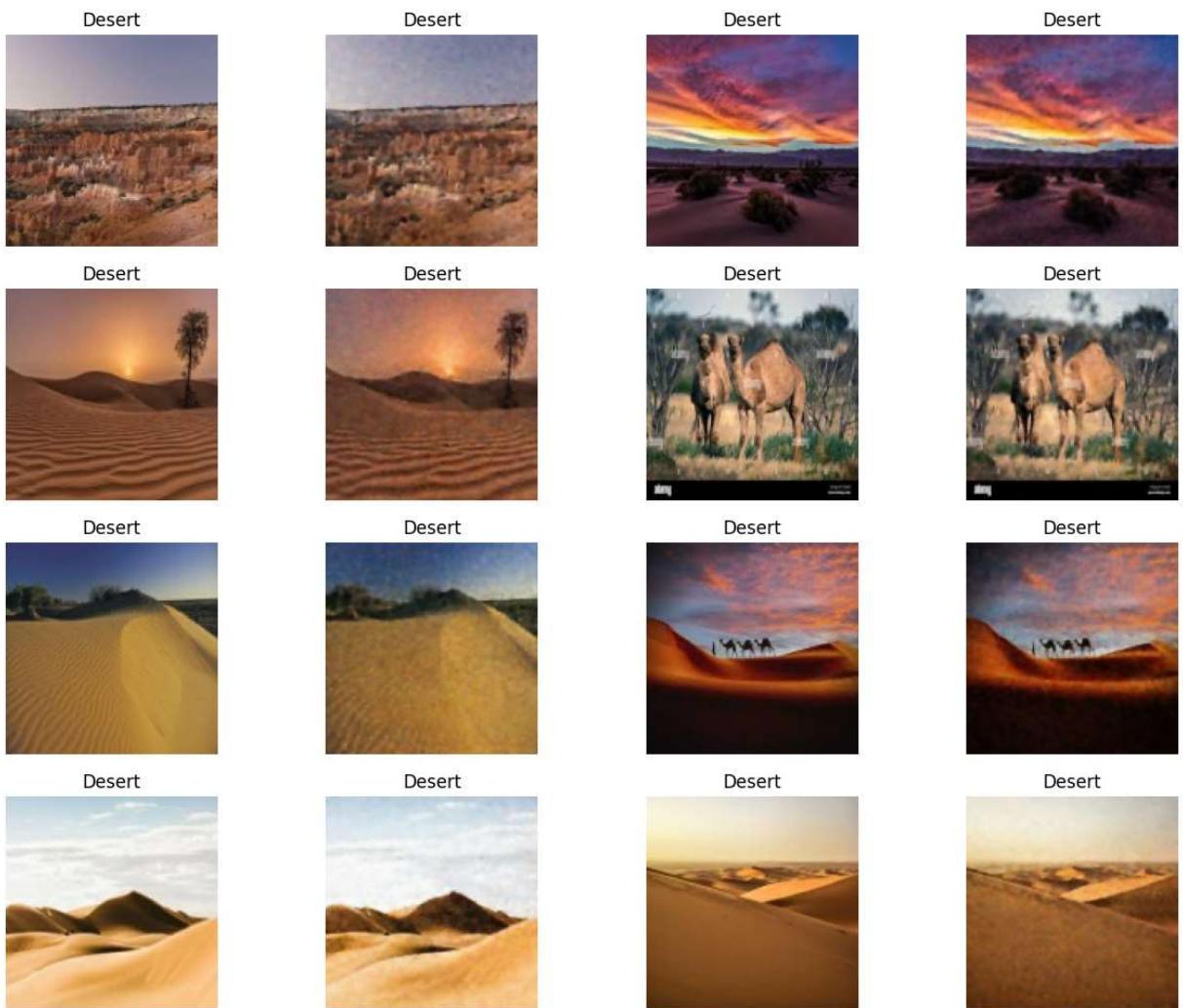
```
120/120 [=====] - 16s 133ms/step - loss: 143.4903 - reconstruction_error: 1.9694 - regularization_error: 84.4079 - val_loss: 886.3713 - val_reconstruction_error: 27.0289 - val_regularization_error: 75.5053
Epoch 842/1000
120/120 [=====] - 15s 125ms/step - loss: 142.1135 - reconstruction_error: 1.9220 - regularization_error: 84.4531 - val_loss: 874.8961 - val_reconstruction_error: 26.6195 - val_regularization_error: 76.3123
Epoch 843/1000
120/120 [=====] - 14s 115ms/step - loss: 141.6325 - reconstruction_error: 1.9188 - regularization_error: 84.0671 - val_loss: 891.4532 - val_reconstruction_error: 27.0767 - val_regularization_error: 79.1516
Epoch 844/1000
120/120 [=====] - 17s 138ms/step - loss: 142.8660 - reconstruction_error: 1.9469 - regularization_error: 84.4587 - val_loss: 901.0487 - val_reconstruction_error: 27.4152 - val_regularization_error: 78.5919
Epoch 845/1000
120/120 [=====] - 18s 146ms/step - loss: 143.4339 - reconstruction_error: 1.9563 - regularization_error: 84.7442 - val_loss: 893.9682 - val_reconstruction_error: 27.2257 - val_regularization_error: 77.1967
Epoch 846/1000
120/120 [=====] - 13s 105ms/step - loss: 142.6413 - reconstruction_error: 1.9422 - regularization_error: 84.3747 - val_loss: 887.3322 - val_reconstruction_error: 26.9034 - val_regularization_error: 80.2292
Epoch 847/1000
120/120 [=====] - 16s 130ms/step - loss: 143.4430 - reconstruction_error: 1.9670 - regularization_error: 84.4332 - val_loss: 889.7630 - val_reconstruction_error: 27.0437 - val_regularization_error: 78.4512
Epoch 848/1000
120/120 [=====] - 17s 138ms/step - loss: 142.1130 - reconstruction_error: 1.9232 - regularization_error: 84.4183 - val_loss: 886.7040 - val_reconstruction_error: 26.9534 - val_regularization_error: 78.1034
Epoch 849/1000
120/120 [=====] - 17s 142ms/step - loss: 142.9340 - reconstruction_error: 1.9513 - regularization_error: 84.3959 - val_loss: 891.7227 - val_reconstruction_error: 27.1959 - val_regularization_error: 75.8463
Epoch 850/1000
120/120 [=====] - 14s 119ms/step - loss: 143.7852 - reconstruction_error: 1.9654 - regularization_error: 84.8242 - val_loss: 895.3015 - val_reconstruction_error: 27.2671 - val_regularization_error: 77.2893
Epoch 851/1000
120/120 [=====] - ETA: 0s - loss: 142.4354 - reconstruction_error: 1.9471 - regularization_error: 84.0227
[2023-12-03 01:41:42.288626]: Reconstructing images for epoch 851 ...
```



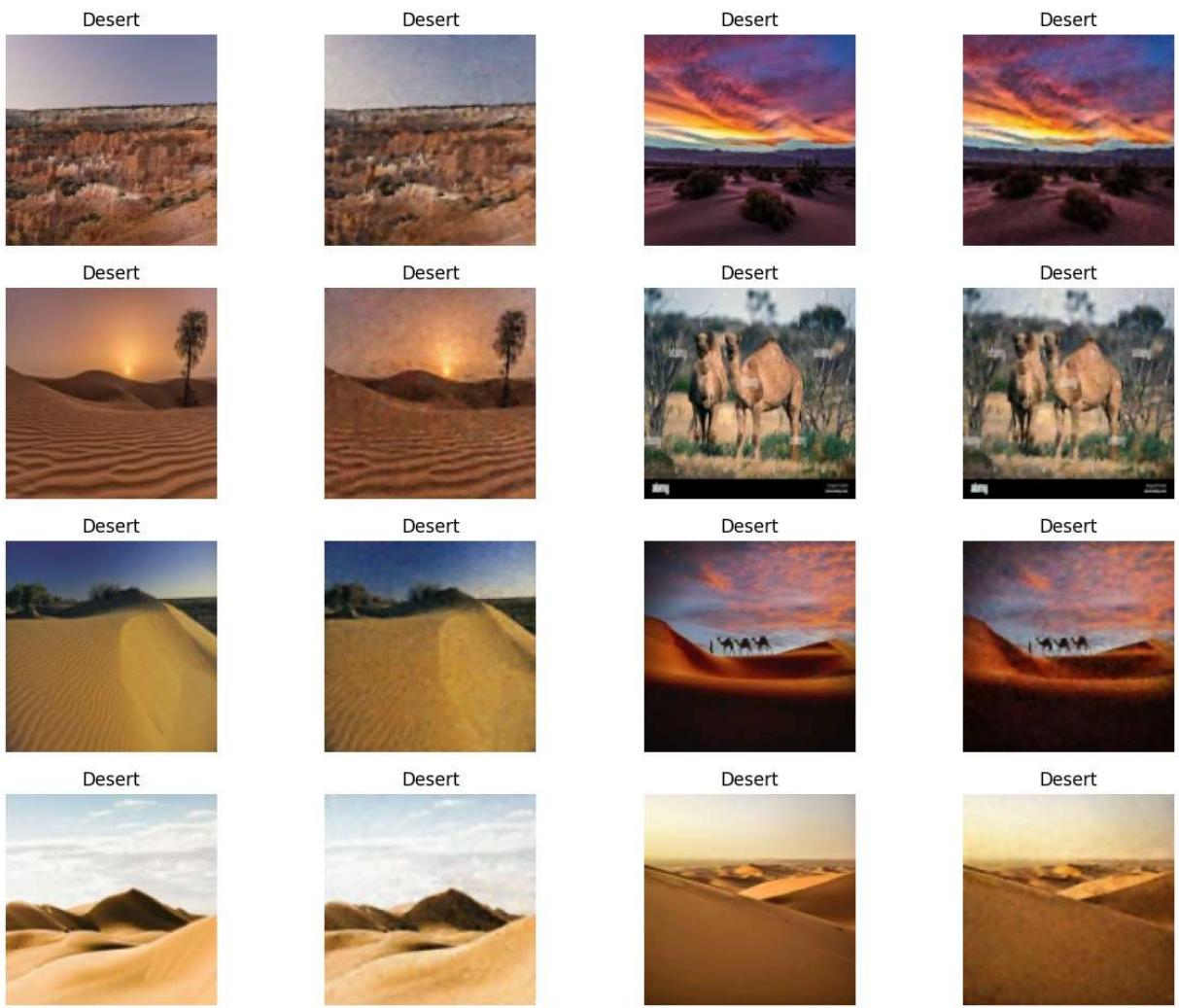
```
120/120 [=====] - 17s 139ms/step - loss: 142.4354 - reconstruction_error: 1.9471 - regularization_error: 84.0227 - val_loss: 887.1820 - val_reconstruction_error: 26.9883 - val_regularization_error: 77.5342
Epoch 852/1000
120/120 [=====] - 16s 130ms/step - loss: 142.5443 - reconstruction_error: 1.9422 - regularization_error: 84.2774 - val_loss: 892.0783 - val_reconstruction_error: 27.0359 - val_regularization_error: 81.0002
Epoch 853/1000
120/120 [=====] - 15s 119ms/step - loss: 143.3522 - reconstruction_error: 1.9627 - regularization_error: 84.4721 - val_loss: 891.3017 - val_reconstruction_error: 27.1148 - val_regularization_error: 77.8570
Epoch 854/1000
120/120 [=====] - 16s 131ms/step - loss: 143.2964 - reconstruction_error: 1.9537 - regularization_error: 84.6860 - val_loss: 891.7653 - val_reconstruction_error: 27.1423 - val_regularization_error: 77.4954
Epoch 855/1000
120/120 [=====] - 16s 133ms/step - loss: 141.9452 - reconstruction_error: 1.9080 - regularization_error: 84.7047 - val_loss: 890.4308 - val_reconstruction_error: 27.0398 - val_regularization_error: 79.2353
Epoch 856/1000
120/120 [=====] - 17s 144ms/step - loss: 141.3669 - reconstruction_error: 1.9031 - regularization_error: 84.2727 - val_loss: 890.6870 - val_reconstruction_error: 27.1067 - val_regularization_error: 77.4846
Epoch 857/1000
120/120 [=====] - 17s 138ms/step - loss: 143.0987 - reconstruction_error: 1.9518 - regularization_error: 84.5456 - val_loss: 890.4768 - val_reconstruction_error: 27.0178 - val_regularization_error: 79.9443
Epoch 858/1000
120/120 [=====] - 19s 155ms/step - loss: 141.4913 - reconstruction_error: 1.9070 - regularization_error: 84.2825 - val_loss: 895.7880 - val_reconstruction_error: 27.2841 - val_regularization_error: 77.2639
Epoch 859/1000
120/120 [=====] - 16s 134ms/step - loss: 142.2752 - reconstruction_error: 1.9406 - regularization_error: 84.0558 - val_loss: 895.9332 - val_reconstruction_error: 27.2899 - val_regularization_error: 77.2374
Epoch 860/1000
120/120 [=====] - 16s 130ms/step - loss: 141.8255 - reconstruction_error: 1.9192 - regularization_error: 84.2506 - val_loss: 893.8012 - val_reconstruction_error: 27.2003 - val_regularization_error: 77.7912
Epoch 861/1000
120/120 [=====] - ETA: 0s - loss: 142.7391 - reconstruction_error: 1.9396 - regularization_error: 84.5524
[2023-12-03 01:44:36.699200]: Reconstructing images for epoch 861 ...
```



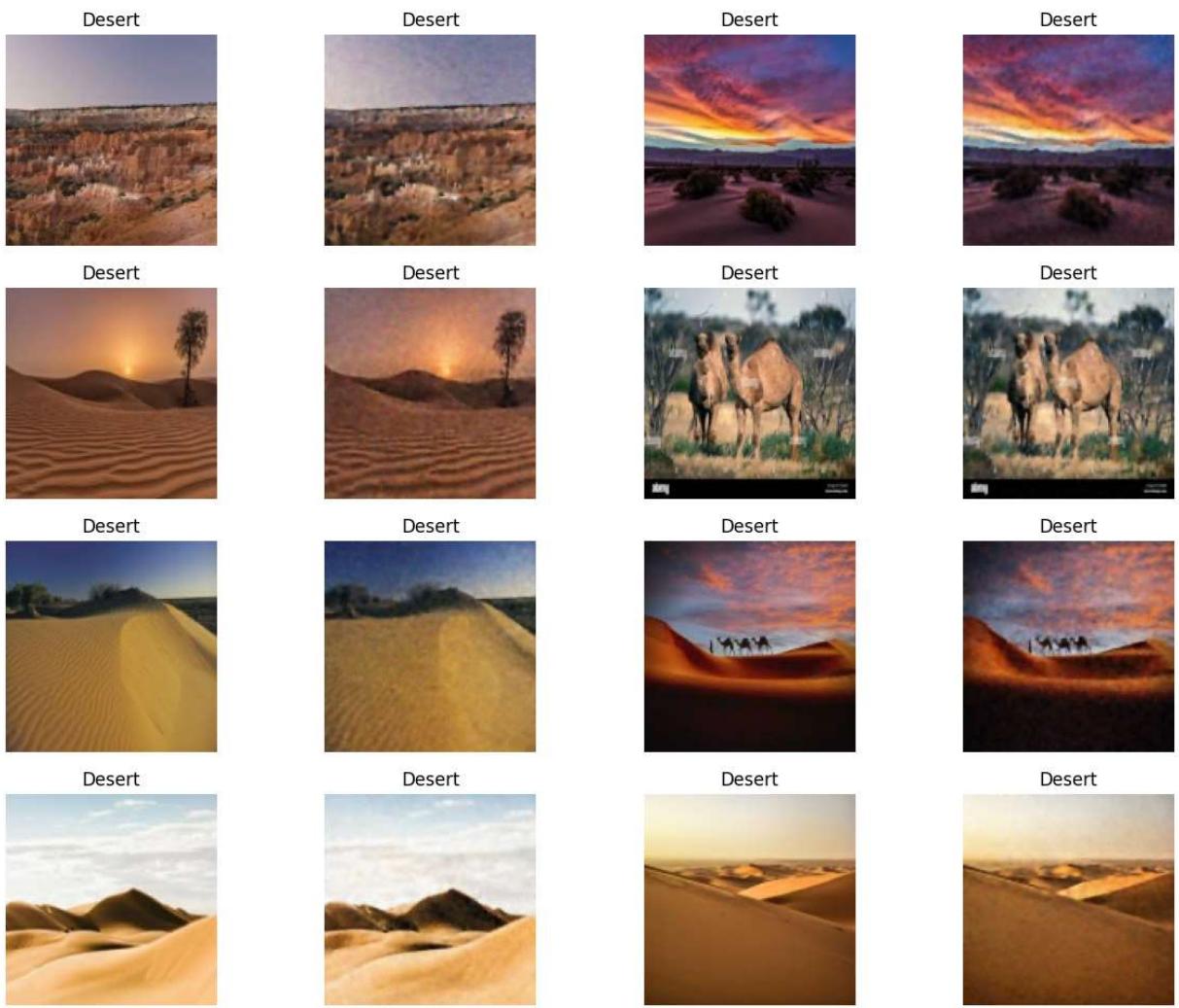
```
120/120 [=====] - 17s 140ms/step - loss: 142.7391 - reconstruction_error: 1.9396 - regularization_error: 84.5524 - val_loss: 893.0367 - val_reconstruction_error: 27.1441 - val_regularization_error: 78.7143
Epoch 862/1000
120/120 [=====] - 19s 157ms/step - loss: 142.0411 - reconstruction_error: 1.9171 - regularization_error: 84.5271 - val_loss: 894.2379 - val_reconstruction_error: 27.1652 - val_regularization_error: 79.2833
Epoch 863/1000
120/120 [=====] - 16s 132ms/step - loss: 141.7959 - reconstruction_error: 1.9168 - regularization_error: 84.2904 - val_loss: 893.4207 - val_reconstruction_error: 27.2079 - val_regularization_error: 77.1848
Epoch 864/1000
120/120 [=====] - 17s 140ms/step - loss: 141.3403 - reconstruction_error: 1.8992 - regularization_error: 84.3632 - val_loss: 881.9028 - val_reconstruction_error: 26.6984 - val_regularization_error: 80.9507
Epoch 865/1000
120/120 [=====] - 17s 140ms/step - loss: 141.4793 - reconstruction_error: 1.9123 - regularization_error: 84.1091 - val_loss: 894.5246 - val_reconstruction_error: 27.2554 - val_regularization_error: 76.8638
Epoch 866/1000
120/120 [=====] - 17s 142ms/step - loss: 142.0402 - reconstruction_error: 1.9219 - regularization_error: 84.3846 - val_loss: 891.5228 - val_reconstruction_error: 27.1240 - val_regularization_error: 77.8018
Epoch 867/1000
120/120 [=====] - 15s 121ms/step - loss: 142.0103 - reconstruction_error: 1.9311 - regularization_error: 84.0760 - val_loss: 899.2392 - val_reconstruction_error: 27.3947 - val_regularization_error: 77.3976
Epoch 868/1000
120/120 [=====] - 15s 122ms/step - loss: 143.4899 - reconstruction_error: 1.9661 - regularization_error: 84.5073 - val_loss: 897.5390 - val_reconstruction_error: 27.3478 - val_regularization_error: 77.1035
Epoch 869/1000
120/120 [=====] - 18s 148ms/step - loss: 142.3188 - reconstruction_error: 1.9362 - regularization_error: 84.2341 - val_loss: 889.0811 - val_reconstruction_error: 26.9801 - val_regularization_error: 79.6789
Epoch 870/1000
120/120 [=====] - 14s 118ms/step - loss: 141.7592 - reconstruction_error: 1.9187 - regularization_error: 84.1971 - val_loss: 888.2034 - val_reconstruction_error: 27.0575 - val_regularization_error: 76.4790
Epoch 871/1000
120/120 [=====] - ETA: 0s - loss: 143.0745 - reconstruction_error: 1.9614 - regularization_error: 84.2333
[2023-12-03 01:47:26.824273]: Reconstructing images for epoch 871 ...
```



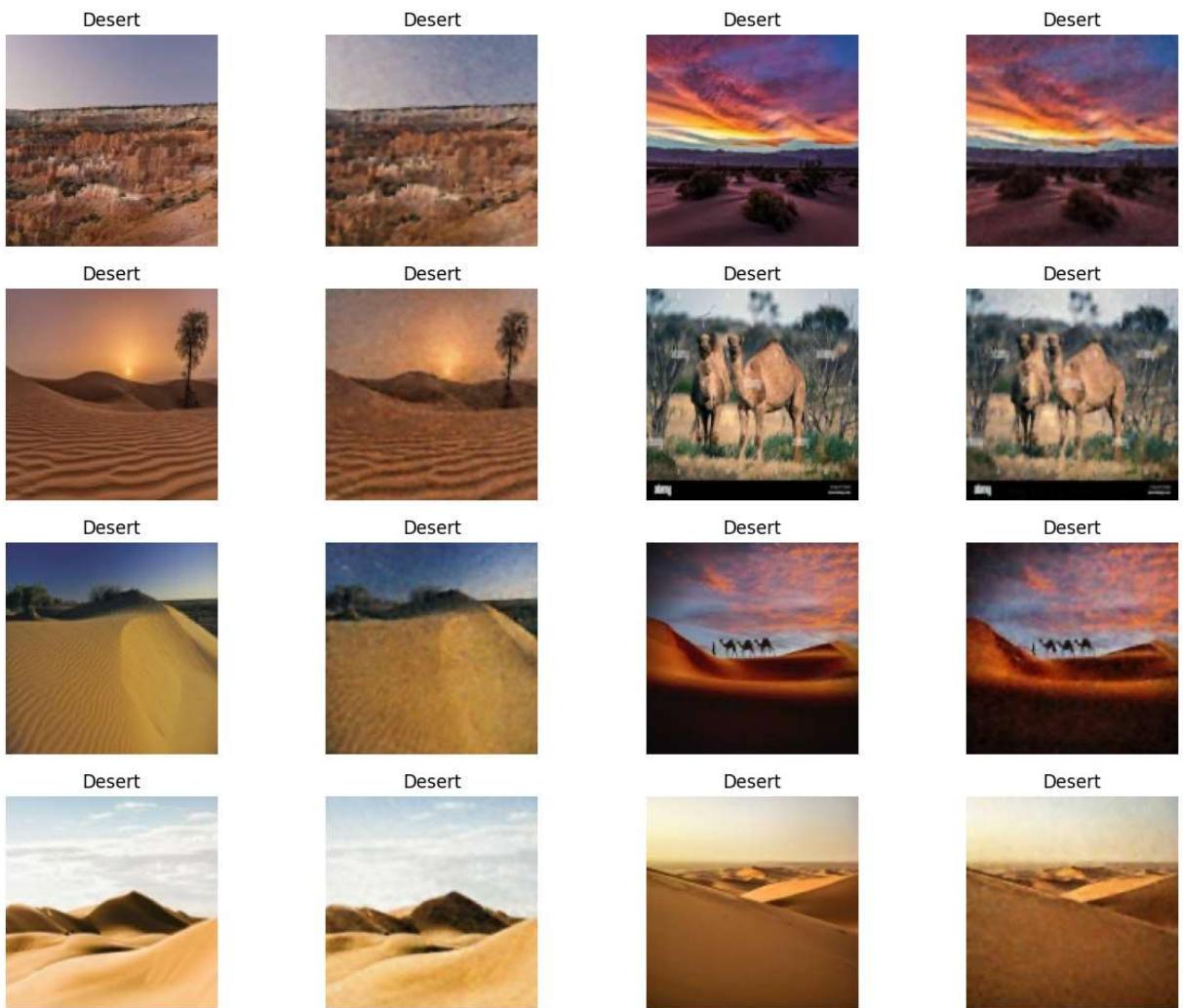
```
120/120 [=====] - 19s 157ms/step - loss: 143.0745 - reconstruction_error: 1.9614 - regularization_error: 84.2333 - val_loss: 879.2870 - val_reconstruction_error: 26.6384 - val_regularization_error: 80.1344
Epoch 872/1000
120/120 [=====] - 15s 126ms/step - loss: 143.1642 - reconstruction_error: 1.9592 - regularization_error: 84.3879 - val_loss: 890.9732 - val_reconstruction_error: 27.1427 - val_regularization_error: 76.6933
Epoch 873/1000
120/120 [=====] - 14s 120ms/step - loss: 142.0335 - reconstruction_error: 1.9191 - regularization_error: 84.4612 - val_loss: 890.4792 - val_reconstruction_error: 27.1286 - val_regularization_error: 76.6202
Epoch 874/1000
120/120 [=====] - 13s 110ms/step - loss: 142.4789 - reconstruction_error: 1.9453 - regularization_error: 84.1193 - val_loss: 882.7722 - val_reconstruction_error: 26.6374 - val_regularization_error: 83.6515
Epoch 875/1000
120/120 [=====] - 16s 130ms/step - loss: 143.0592 - reconstruction_error: 1.9552 - regularization_error: 84.4021 - val_loss: 892.5906 - val_reconstruction_error: 27.1896 - val_regularization_error: 76.9018
Epoch 876/1000
120/120 [=====] - 17s 138ms/step - loss: 141.1726 - reconstruction_error: 1.9030 - regularization_error: 84.0819 - val_loss: 883.7307 - val_reconstruction_error: 26.8457 - val_regularization_error: 78.3596
Epoch 877/1000
120/120 [=====] - 18s 147ms/step - loss: 141.6192 - reconstruction_error: 1.9216 - regularization_error: 83.9724 - val_loss: 887.0262 - val_reconstruction_error: 26.9505 - val_regularization_error: 78.5102
Epoch 878/1000
120/120 [=====] - 16s 130ms/step - loss: 143.9359 - reconstruction_error: 1.9787 - regularization_error: 84.5755 - val_loss: 890.0946 - val_reconstruction_error: 27.0923 - val_regularization_error: 77.3260
Epoch 879/1000
120/120 [=====] - 16s 130ms/step - loss: 143.4055 - reconstruction_error: 1.9596 - regularization_error: 84.6180 - val_loss: 887.4879 - val_reconstruction_error: 27.0111 - val_regularization_error: 77.1535
Epoch 880/1000
120/120 [=====] - 18s 150ms/step - loss: 142.2893 - reconstruction_error: 1.9418 - regularization_error: 84.0360 - val_loss: 898.7038 - val_reconstruction_error: 27.3330 - val_regularization_error: 78.7132
Epoch 881/1000
120/120 [=====] - ETA: 0s - loss: 142.9907 - reconstruction_error: 1.9453 - regularization_error: 84.6331
[2023-12-03 01:50:09.289766]: Reconstructing images for epoch 881 ...
```



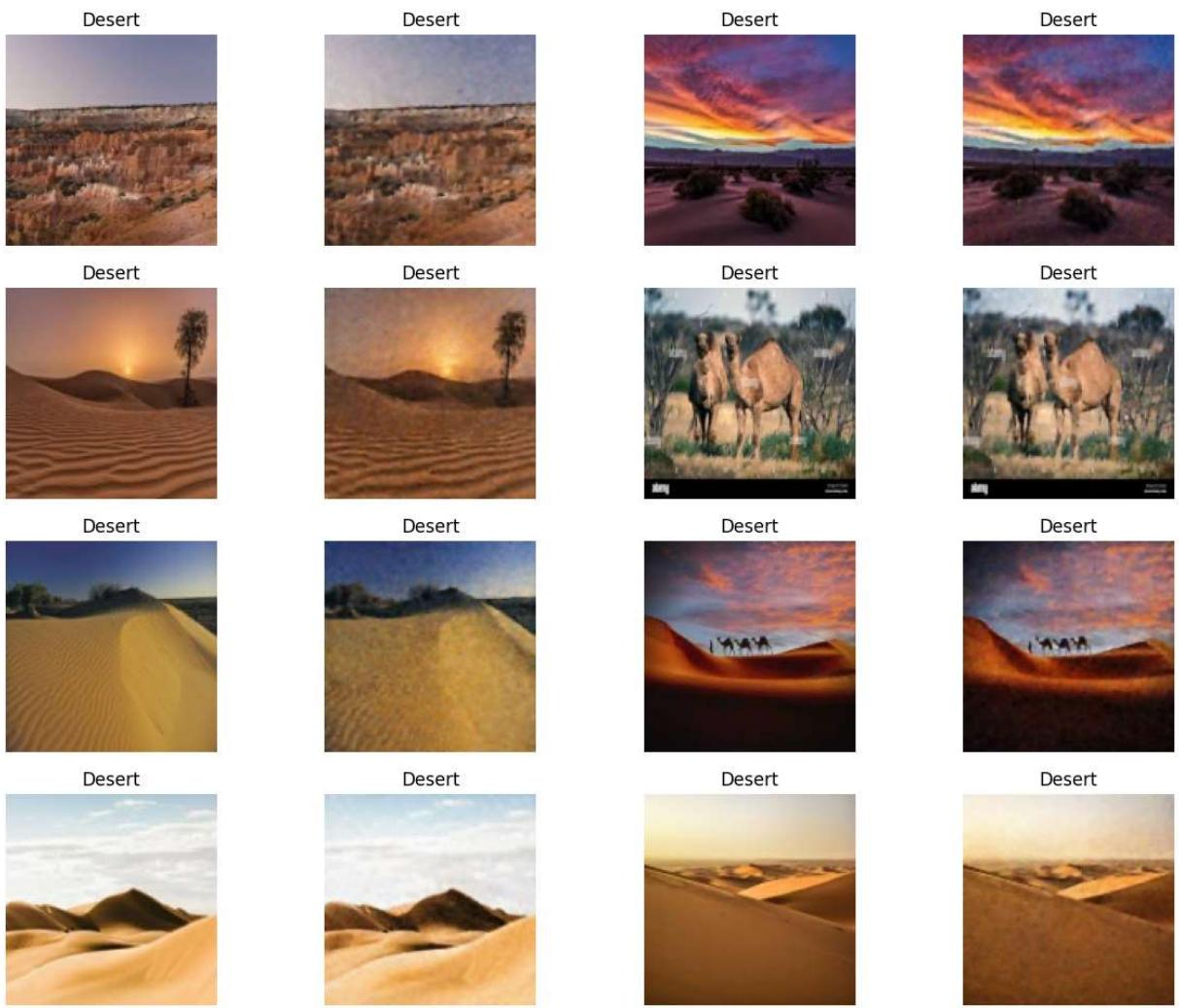
```
120/120 [=====] - 19s 155ms/step - loss: 142.9907 - reconstruction_error: 1.9453 - regularization_error: 84.6331 - val_loss: 890.2687 - val_reconstruction_error: 27.0791 - val_regularization_error: 77.8952
Epoch 882/1000
120/120 [=====] - 17s 138ms/step - loss: 141.1985 - reconstruction_error: 1.9059 - regularization_error: 84.0202 - val_loss: 888.8060 - val_reconstruction_error: 27.0661 - val_regularization_error: 76.8235
Epoch 883/1000
120/120 [=====] - 15s 126ms/step - loss: 140.5326 - reconstruction_error: 1.8813 - regularization_error: 84.0940 - val_loss: 897.0582 - val_reconstruction_error: 27.2815 - val_regularization_error: 78.6148
Epoch 884/1000
120/120 [=====] - 18s 153ms/step - loss: 142.9522 - reconstruction_error: 1.9655 - regularization_error: 83.9885 - val_loss: 885.6358 - val_reconstruction_error: 26.9269 - val_regularization_error: 77.8273
Epoch 885/1000
120/120 [=====] - 17s 139ms/step - loss: 141.9428 - reconstruction_error: 1.9247 - regularization_error: 84.2006 - val_loss: 895.2429 - val_reconstruction_error: 27.2097 - val_regularization_error: 78.9508
Epoch 886/1000
120/120 [=====] - 19s 155ms/step - loss: 141.3797 - reconstruction_error: 1.9034 - regularization_error: 84.2769 - val_loss: 878.8669 - val_reconstruction_error: 26.6999 - val_regularization_error: 77.8688
Epoch 887/1000
120/120 [=====] - 15s 124ms/step - loss: 141.3882 - reconstruction_error: 1.9078 - regularization_error: 84.1543 - val_loss: 889.3947 - val_reconstruction_error: 27.1035 - val_regularization_error: 76.2910
Epoch 888/1000
120/120 [=====] - 18s 148ms/step - loss: 140.9730 - reconstruction_error: 1.9014 - regularization_error: 83.9305 - val_loss: 888.1663 - val_reconstruction_error: 26.9821 - val_regularization_error: 78.7040
Epoch 889/1000
120/120 [=====] - 15s 121ms/step - loss: 141.2475 - reconstruction_error: 1.9054 - regularization_error: 84.0853 - val_loss: 900.5361 - val_reconstruction_error: 27.4058 - val_regularization_error: 78.3633
Epoch 890/1000
120/120 [=====] - 14s 119ms/step - loss: 142.7073 - reconstruction_error: 1.9462 - regularization_error: 84.3223 - val_loss: 887.9494 - val_reconstruction_error: 27.0083 - val_regularization_error: 77.6993
Epoch 891/1000
120/120 [=====] - ETA: 0s - loss: 141.7698 - reconstruction_error: 1.9184 - regularization_error: 84.2170
[2023-12-03 01:52:58.243911]: Reconstructing images for epoch 891 ...
```



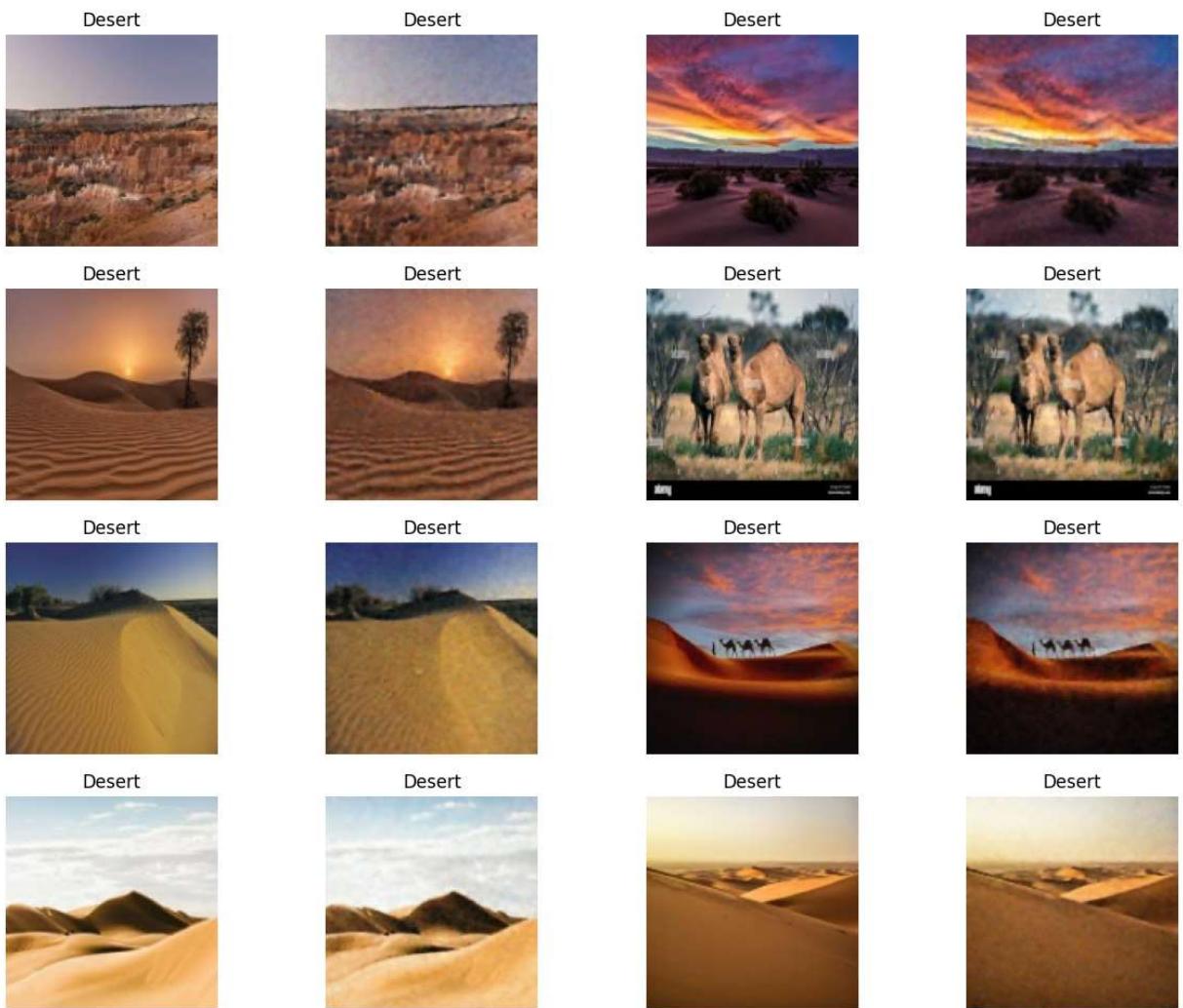
```
120/120 [=====] - 20s 161ms/step - loss: 141.7698 - reconstruction_error: 1.9184 - regularization_error: 84.2170 - val_loss: 888.0674 - val_reconstruction_error: 26.9696 - val_regularization_error: 78.9789
Epoch 892/1000
120/120 [=====] - 14s 118ms/step - loss: 141.5972 - reconstruction_error: 1.9150 - regularization_error: 84.1467 - val_loss: 899.7343 - val_reconstruction_error: 27.4140 - val_regularization_error: 77.3139
Epoch 893/1000
120/120 [=====] - 17s 138ms/step - loss: 141.2343 - reconstruction_error: 1.9039 - regularization_error: 84.1184 - val_loss: 895.1240 - val_reconstruction_error: 27.2336 - val_regularization_error: 78.1157
Epoch 894/1000
120/120 [=====] - 14s 116ms/step - loss: 148.0058 - reconstruction_error: 2.1022 - regularization_error: 84.9387 - val_loss: 897.9342 - val_reconstruction_error: 27.3073 - val_regularization_error: 78.7145
Epoch 895/1000
120/120 [=====] - 15s 124ms/step - loss: 143.4675 - reconstruction_error: 1.9656 - regularization_error: 84.4996 - val_loss: 899.3295 - val_reconstruction_error: 27.4855 - val_regularization_error: 74.7656
Epoch 896/1000
120/120 [=====] - 18s 152ms/step - loss: 143.4517 - reconstruction_error: 1.9641 - regularization_error: 84.5289 - val_loss: 900.2725 - val_reconstruction_error: 27.4373 - val_regularization_error: 77.1544
Epoch 897/1000
120/120 [=====] - 17s 138ms/step - loss: 142.0047 - reconstruction_error: 1.9151 - regularization_error: 84.5530 - val_loss: 887.6227 - val_reconstruction_error: 26.9703 - val_regularization_error: 78.5150
Epoch 898/1000
120/120 [=====] - 16s 134ms/step - loss: 142.2070 - reconstruction_error: 1.9313 - regularization_error: 84.2671 - val_loss: 888.6365 - val_reconstruction_error: 26.9823 - val_regularization_error: 79.1671
Epoch 899/1000
120/120 [=====] - 16s 130ms/step - loss: 141.6457 - reconstruction_error: 1.9100 - regularization_error: 84.3449 - val_loss: 899.5364 - val_reconstruction_error: 27.3952 - val_regularization_error: 77.6798
Epoch 900/1000
120/120 [=====] - 15s 125ms/step - loss: 140.7184 - reconstruction_error: 1.9002 - regularization_error: 83.7111 - val_loss: 895.9168 - val_reconstruction_error: 27.2337 - val_regularization_error: 78.9052
Epoch 901/1000
120/120 [=====] - ETA: 0s - loss: 142.2363 - reconstruction_error: 1.9331 - regularization_error: 84.2431
[2023-12-03 01:55:40.916077]: Reconstructing images for epoch 901 ...
```



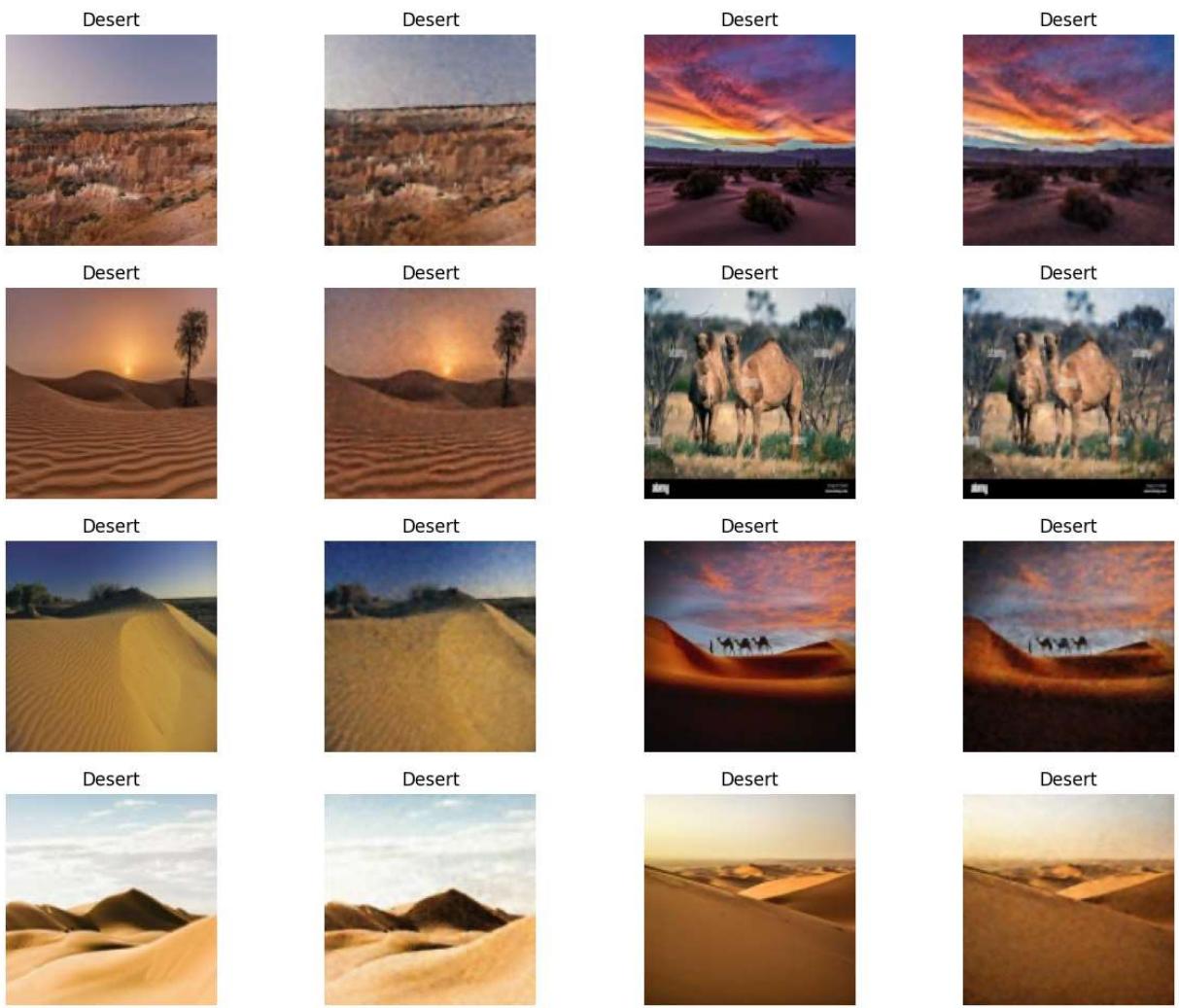
```
120/120 [=====] - 19s 155ms/step - loss: 142.2363 - reconstruction_error: 1.9331 - regularization_error: 84.2431 - val_loss: 887.9337 - val_reconstruction_error: 27.0322 - val_regularization_error: 76.9682
Epoch 902/1000
120/120 [=====] - 14s 116ms/step - loss: 140.7917 - reconstruction_error: 1.8936 - regularization_error: 83.9837 - val_loss: 893.9156 - val_reconstruction_error: 27.2036 - val_regularization_error: 77.8065
Epoch 903/1000
120/120 [=====] - 17s 137ms/step - loss: 141.0984 - reconstruction_error: 1.9101 - regularization_error: 83.7961 - val_loss: 890.0468 - val_reconstruction_error: 27.0689 - val_regularization_error: 77.9809
Epoch 904/1000
120/120 [=====] - 17s 145ms/step - loss: 140.1763 - reconstruction_error: 1.8819 - regularization_error: 83.7194 - val_loss: 894.6282 - val_reconstruction_error: 27.2105 - val_regularization_error: 78.3119
Epoch 905/1000
120/120 [=====] - 16s 130ms/step - loss: 141.7785 - reconstruction_error: 1.9265 - regularization_error: 83.9826 - val_loss: 896.8719 - val_reconstruction_error: 27.2415 - val_regularization_error: 79.6285
Epoch 906/1000
120/120 [=====] - 16s 132ms/step - loss: 141.8154 - reconstruction_error: 1.9166 - regularization_error: 84.3162 - val_loss: 898.4880 - val_reconstruction_error: 27.3523 - val_regularization_error: 77.9193
Epoch 907/1000
120/120 [=====] - 19s 162ms/step - loss: 141.5875 - reconstruction_error: 1.9089 - regularization_error: 84.3211 - val_loss: 890.7303 - val_reconstruction_error: 27.0779 - val_regularization_error: 78.3924
Epoch 908/1000
120/120 [=====] - 15s 127ms/step - loss: 141.6549 - reconstruction_error: 1.9175 - regularization_error: 84.1299 - val_loss: 891.0749 - val_reconstruction_error: 27.0742 - val_regularization_error: 78.8476
Epoch 909/1000
120/120 [=====] - 16s 133ms/step - loss: 141.6148 - reconstruction_error: 1.9062 - regularization_error: 84.4300 - val_loss: 894.1930 - val_reconstruction_error: 27.2341 - val_regularization_error: 77.1688
Epoch 910/1000
120/120 [=====] - 15s 119ms/step - loss: 141.6460 - reconstruction_error: 1.9147 - regularization_error: 84.2058 - val_loss: 890.2415 - val_reconstruction_error: 27.0884 - val_regularization_error: 77.5896
Epoch 911/1000
120/120 [=====] - ETA: 0s - loss: 140.5763 - reconstruction_error: 1.8911 - regularization_error: 83.8439
[2023-12-03 01:58:27.861381]: Reconstructing images for epoch 911 ...
```



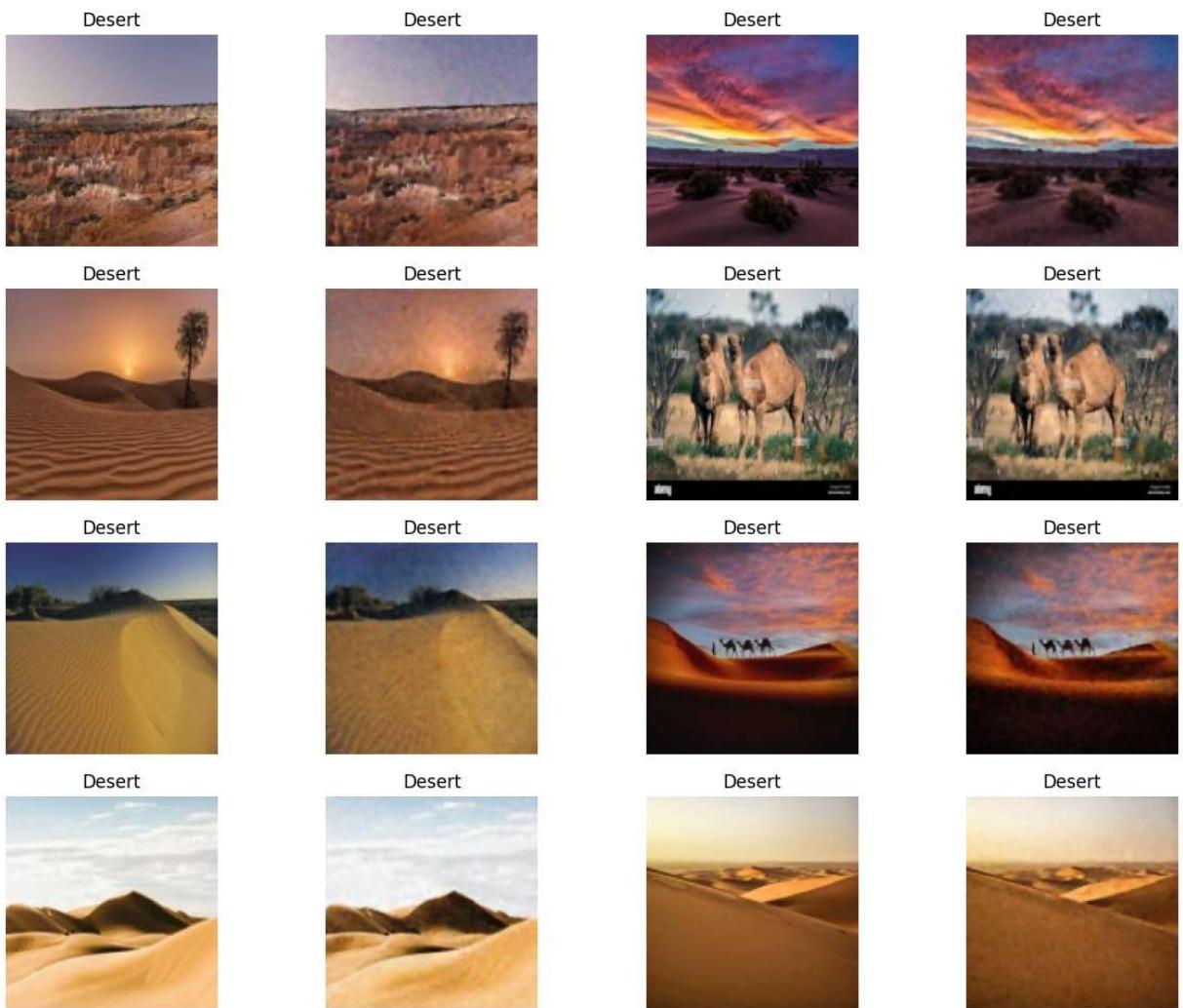
```
120/120 [=====] - 19s 158ms/step - loss: 140.5763 - reconstruction_error: 1.8911 - regularization_error: 83.8439 - val_loss: 895.0201 - val_reconstruction_error: 27.1781 - val_regularization_error: 79.6771
Epoch 912/1000
120/120 [=====] - 14s 118ms/step - loss: 140.9473 - reconstruction_error: 1.8900 - regularization_error: 84.2487 - val_loss: 895.6699 - val_reconstruction_error: 27.2062 - val_regularization_error: 79.4853
Epoch 913/1000
120/120 [=====] - 18s 146ms/step - loss: 141.1626 - reconstruction_error: 1.9081 - regularization_error: 83.9181 - val_loss: 895.8012 - val_reconstruction_error: 27.2104 - val_regularization_error: 79.4879
Epoch 914/1000
120/120 [=====] - 14s 117ms/step - loss: 142.0672 - reconstruction_error: 1.9312 - regularization_error: 84.1323 - val_loss: 897.1158 - val_reconstruction_error: 27.3054 - val_regularization_error: 77.9552
Epoch 915/1000
120/120 [=====] - 16s 132ms/step - loss: 140.9322 - reconstruction_error: 1.8879 - regularization_error: 84.2937 - val_loss: 910.0378 - val_reconstruction_error: 27.7919 - val_regularization_error: 76.2821
Epoch 916/1000
120/120 [=====] - 14s 111ms/step - loss: 142.0930 - reconstruction_error: 1.9294 - regularization_error: 84.2114 - val_loss: 908.1939 - val_reconstruction_error: 27.6771 - val_regularization_error: 77.8815
Epoch 917/1000
120/120 [=====] - 15s 121ms/step - loss: 142.4652 - reconstruction_error: 1.9426 - regularization_error: 84.1885 - val_loss: 894.7034 - val_reconstruction_error: 27.2785 - val_regularization_error: 76.3492
Epoch 918/1000
120/120 [=====] - 15s 124ms/step - loss: 142.5396 - reconstruction_error: 1.9439 - regularization_error: 84.2230 - val_loss: 893.6511 - val_reconstruction_error: 27.1113 - val_regularization_error: 80.3115
Epoch 919/1000
120/120 [=====] - 19s 153ms/step - loss: 141.2654 - reconstruction_error: 1.8999 - regularization_error: 84.2691 - val_loss: 885.7716 - val_reconstruction_error: 26.9489 - val_regularization_error: 77.3049
Epoch 920/1000
120/120 [=====] - 14s 117ms/step - loss: 141.4188 - reconstruction_error: 1.9050 - regularization_error: 84.2674 - val_loss: 891.4133 - val_reconstruction_error: 27.1111 - val_regularization_error: 78.0801
Epoch 921/1000
120/120 [=====] - ETA: 0s - loss: 141.7824 - reconstruction_error: 1.9223 - regularization_error: 84.1140
[2023-12-03 02:01:02.969813]: Reconstructing images for epoch 921 ...
```



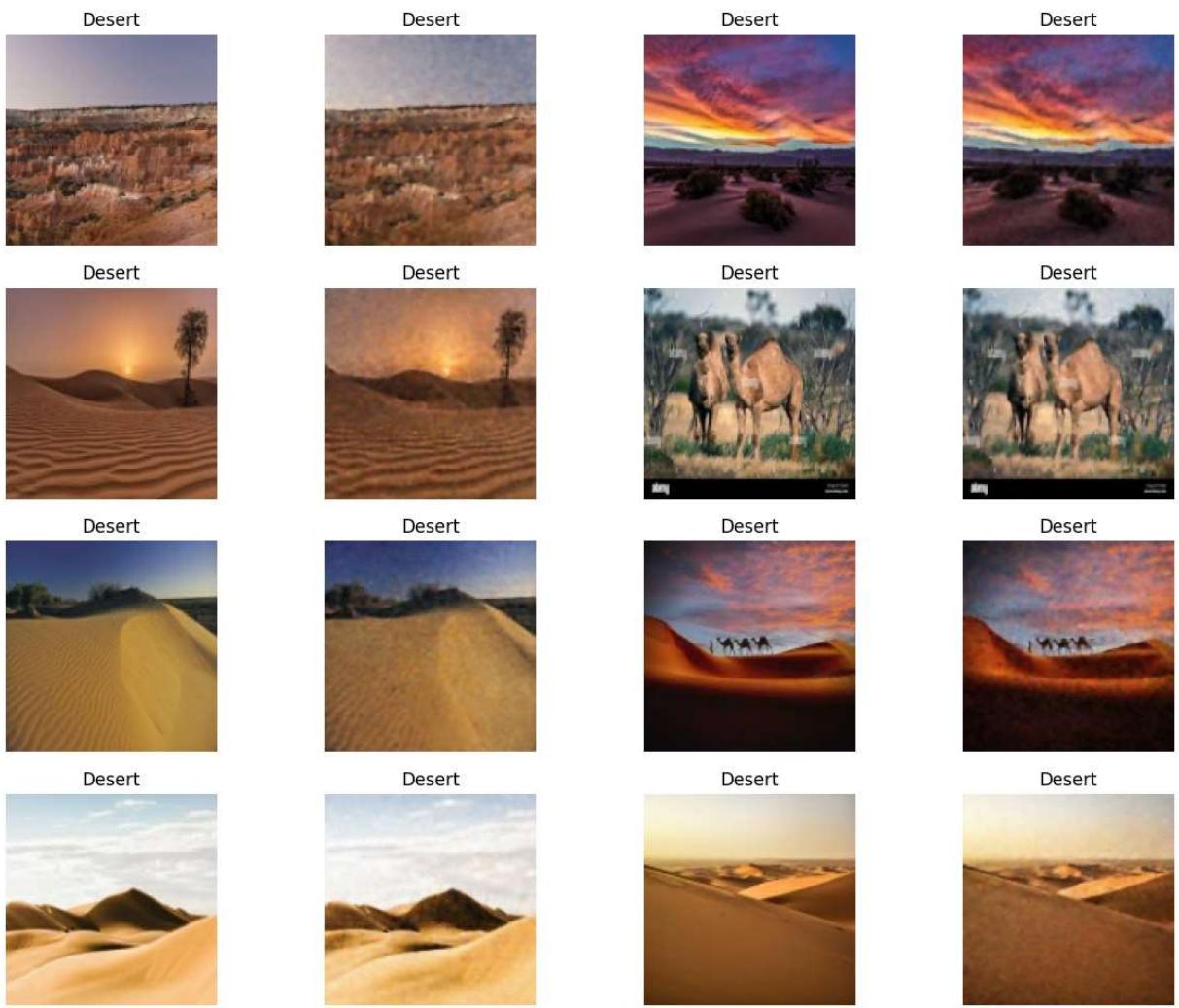
```
120/120 [=====] - 15s 124ms/step - loss: 141.7824 - reconstruction_error: 1.9223 - regularization_error: 84.1140 - val_loss: 891.6836 - val_reconstruction_error: 27.1092 - val_regularization_error: 78.4068
Epoch 922/1000
120/120 [=====] - 17s 144ms/step - loss: 143.7190 - reconstruction_error: 1.9842 - regularization_error: 84.1943 - val_loss: 906.1517 - val_reconstruction_error: 27.4997 - val_regularization_error: 81.1618
Epoch 923/1000
120/120 [=====] - 16s 132ms/step - loss: 141.5486 - reconstruction_error: 1.9235 - regularization_error: 83.8451 - val_loss: 900.7100 - val_reconstruction_error: 27.4272 - val_regularization_error: 77.8945
Epoch 924/1000
120/120 [=====] - 17s 139ms/step - loss: 141.9045 - reconstruction_error: 1.9301 - regularization_error: 84.0003 - val_loss: 897.1944 - val_reconstruction_error: 27.3426 - val_regularization_error: 76.9157
Epoch 925/1000
120/120 [=====] - 14s 116ms/step - loss: 141.3624 - reconstruction_error: 1.9101 - regularization_error: 84.0603 - val_loss: 891.1076 - val_reconstruction_error: 27.0626 - val_regularization_error: 79.2294
Epoch 926/1000
120/120 [=====] - 16s 135ms/step - loss: 141.0689 - reconstruction_error: 1.9012 - regularization_error: 84.0326 - val_loss: 898.3694 - val_reconstruction_error: 27.3015 - val_regularization_error: 79.3245
Epoch 927/1000
120/120 [=====] - 17s 144ms/step - loss: 141.6309 - reconstruction_error: 1.9251 - regularization_error: 83.8769 - val_loss: 888.4587 - val_reconstruction_error: 27.0273 - val_regularization_error: 77.6382
Epoch 928/1000
120/120 [=====] - 17s 139ms/step - loss: 140.2273 - reconstruction_error: 1.8788 - regularization_error: 83.8643 - val_loss: 898.6266 - val_reconstruction_error: 27.3375 - val_regularization_error: 78.5019
Epoch 929/1000
120/120 [=====] - 17s 139ms/step - loss: 142.0203 - reconstruction_error: 1.9303 - regularization_error: 84.1117 - val_loss: 889.5501 - val_reconstruction_error: 27.0258 - val_regularization_error: 78.7756
Epoch 930/1000
120/120 [=====] - 19s 161ms/step - loss: 140.7665 - reconstruction_error: 1.8982 - regularization_error: 83.8196 - val_loss: 891.9271 - val_reconstruction_error: 27.1620 - val_regularization_error: 77.0676
Epoch 931/1000
120/120 [=====] - ETA: 0s - loss: 140.6258 - reconstruction_error: 1.8922 - regularization_error: 83.8602
[2023-12-03 02:03:56.626217]: Reconstructing images for epoch 931 ...
```



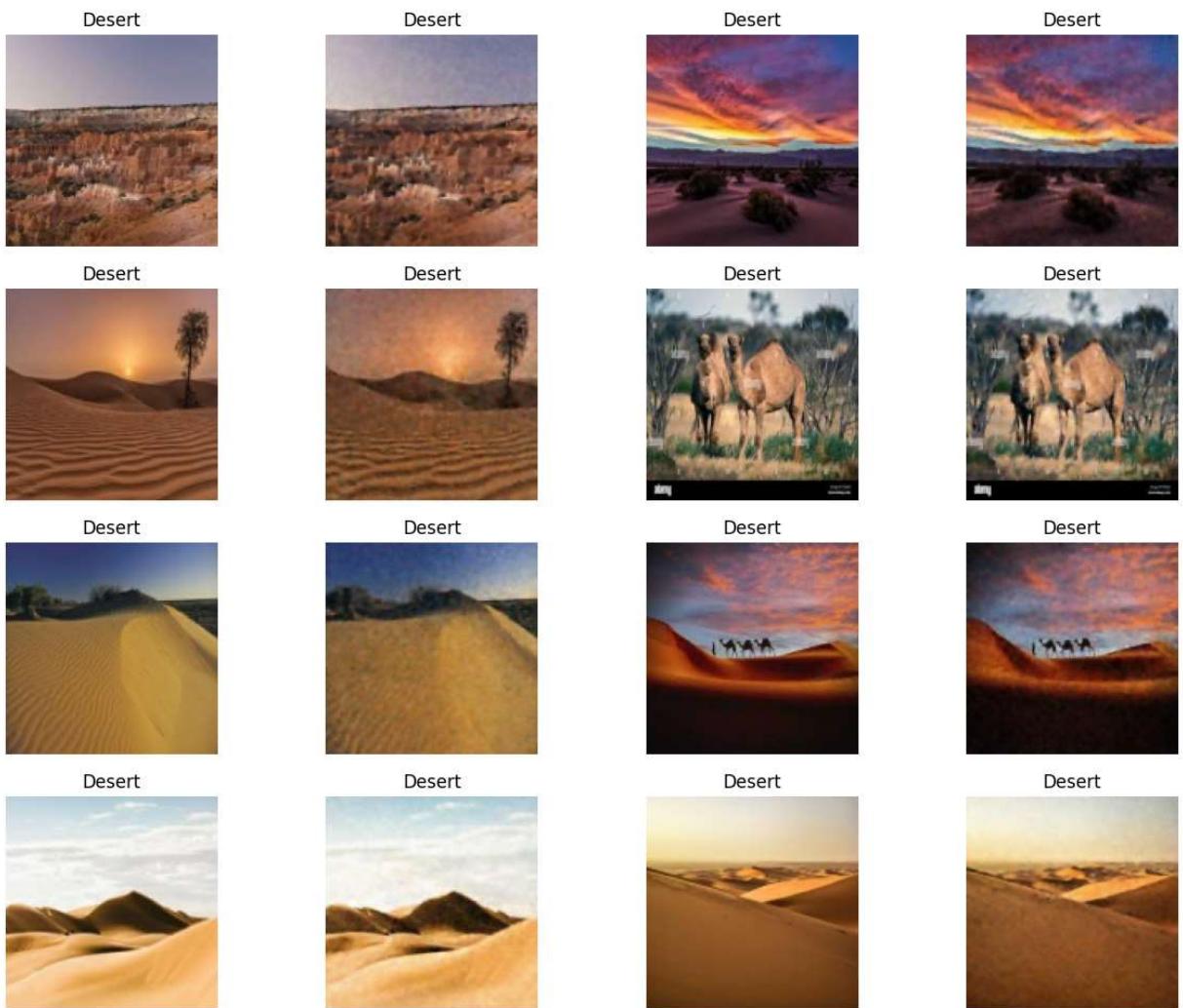
```
120/120 [=====] - 20s 166ms/step - loss: 140.6258 - reconstruction_error: 1.8922 - regularization_error: 83.8602 - val_loss: 887.3608 - val_reconstruction_error: 26.9609 - val_regularization_error: 78.5328
Epoch 932/1000
120/120 [=====] - 15s 120ms/step - loss: 141.6798 - reconstruction_error: 1.9216 - regularization_error: 84.0308 - val_loss: 903.3368 - val_reconstruction_error: 27.5685 - val_regularization_error: 76.2822
Epoch 933/1000
120/120 [=====] - 17s 145ms/step - loss: 140.8176 - reconstruction_error: 1.9051 - regularization_error: 83.6637 - val_loss: 901.9122 - val_reconstruction_error: 27.3496 - val_regularization_error: 81.4242
Epoch 934/1000
120/120 [=====] - 15s 128ms/step - loss: 141.1363 - reconstruction_error: 1.9001 - regularization_error: 84.1326 - val_loss: 898.5690 - val_reconstruction_error: 27.4342 - val_regularization_error: 75.5421
Epoch 935/1000
120/120 [=====] - 16s 132ms/step - loss: 145.0348 - reconstruction_error: 2.0148 - regularization_error: 84.5921 - val_loss: 907.1283 - val_reconstruction_error: 27.6484 - val_regularization_error: 77.6766
Epoch 936/1000
120/120 [=====] - 15s 122ms/step - loss: 143.0337 - reconstruction_error: 1.9631 - regularization_error: 84.1414 - val_loss: 891.5601 - val_reconstruction_error: 27.1586 - val_regularization_error: 76.8027
Epoch 937/1000
120/120 [=====] - 18s 144ms/step - loss: 140.9924 - reconstruction_error: 1.9011 - regularization_error: 83.9603 - val_loss: 902.6635 - val_reconstruction_error: 27.5575 - val_regularization_error: 75.9387
Epoch 938/1000
120/120 [=====] - 16s 134ms/step - loss: 141.8367 - reconstruction_error: 1.9301 - regularization_error: 83.9351 - val_loss: 886.1126 - val_reconstruction_error: 26.9359 - val_regularization_error: 78.0370
Epoch 939/1000
120/120 [=====] - 16s 135ms/step - loss: 142.7494 - reconstruction_error: 1.9515 - regularization_error: 84.2052 - val_loss: 912.1709 - val_reconstruction_error: 27.7723 - val_regularization_error: 79.0019
Epoch 940/1000
120/120 [=====] - 17s 142ms/step - loss: 140.7975 - reconstruction_error: 1.9024 - regularization_error: 83.7265 - val_loss: 899.2514 - val_reconstruction_error: 27.3341 - val_regularization_error: 79.2294
Epoch 941/1000
120/120 [=====] - ETA: 0s - loss: 142.1353 - reconstruction_error: 1.9340 - regularization_error: 84.1159
[2023-12-03 02:06:41.570973]: Reconstructing images for epoch 941 ...
```



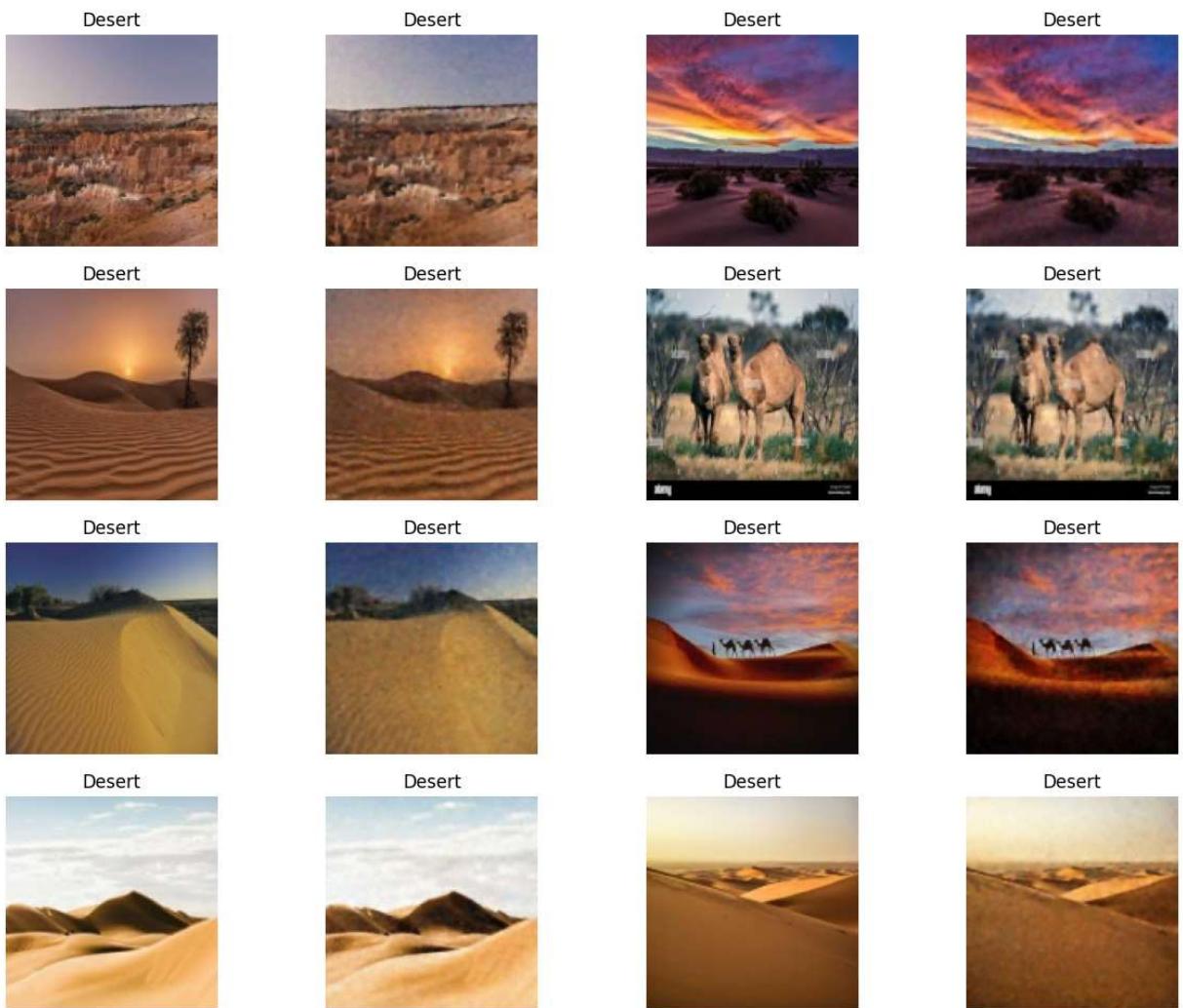
```
120/120 [=====] - 18s 147ms/step - loss: 142.1353 - reconstruction_error: 1.9340 - regularization_error: 84.1159 - val_loss: 893.5786 - val_reconstruction_error: 27.1800 - val_regularization_error: 78.1799
Epoch 942/1000
120/120 [=====] - 16s 131ms/step - loss: 140.6909 - reconstruction_error: 1.8878 - regularization_error: 84.0559 - val_loss: 906.7113 - val_reconstruction_error: 27.6926 - val_regularization_error: 75.9336
Epoch 943/1000
120/120 [=====] - 14s 116ms/step - loss: 140.4144 - reconstruction_error: 1.8864 - regularization_error: 83.8210 - val_loss: 896.4190 - val_reconstruction_error: 27.3052 - val_regularization_error: 77.2625
Epoch 944/1000
120/120 [=====] - 18s 150ms/step - loss: 141.1449 - reconstruction_error: 1.9001 - regularization_error: 84.1422 - val_loss: 898.2523 - val_reconstruction_error: 27.4009 - val_regularization_error: 76.2254
Epoch 945/1000
120/120 [=====] - 16s 134ms/step - loss: 140.9756 - reconstruction_error: 1.9039 - regularization_error: 83.8590 - val_loss: 896.3103 - val_reconstruction_error: 27.2064 - val_regularization_error: 80.1174
Epoch 946/1000
120/120 [=====] - 18s 147ms/step - loss: 139.7990 - reconstruction_error: 1.8614 - regularization_error: 83.9574 - val_loss: 895.3896 - val_reconstruction_error: 27.1819 - val_regularization_error: 79.9333
Epoch 947/1000
120/120 [=====] - 16s 134ms/step - loss: 140.3467 - reconstruction_error: 1.8856 - regularization_error: 83.7772 - val_loss: 895.6472 - val_reconstruction_error: 27.2880 - val_regularization_error: 77.0082
Epoch 948/1000
120/120 [=====] - 18s 150ms/step - loss: 139.6997 - reconstruction_error: 1.8631 - regularization_error: 83.8065 - val_loss: 898.4286 - val_reconstruction_error: 27.2916 - val_regularization_error: 79.6794
Epoch 949/1000
120/120 [=====] - 17s 138ms/step - loss: 141.7964 - reconstruction_error: 1.9226 - regularization_error: 84.1175 - val_loss: 897.6981 - val_reconstruction_error: 27.4469 - val_regularization_error: 74.2917
Epoch 950/1000
120/120 [=====] - 19s 154ms/step - loss: 141.6598 - reconstruction_error: 1.9174 - regularization_error: 84.1389 - val_loss: 900.3631 - val_reconstruction_error: 27.4693 - val_regularization_error: 76.2832
Epoch 951/1000
120/120 [=====] - ETA: 0s - loss: 141.7301 - reconstruction_error: 1.9239 - regularization_error: 84.0146
[2023-12-03 02:09:37.762205]: Reconstructing images for epoch 951 ...
```



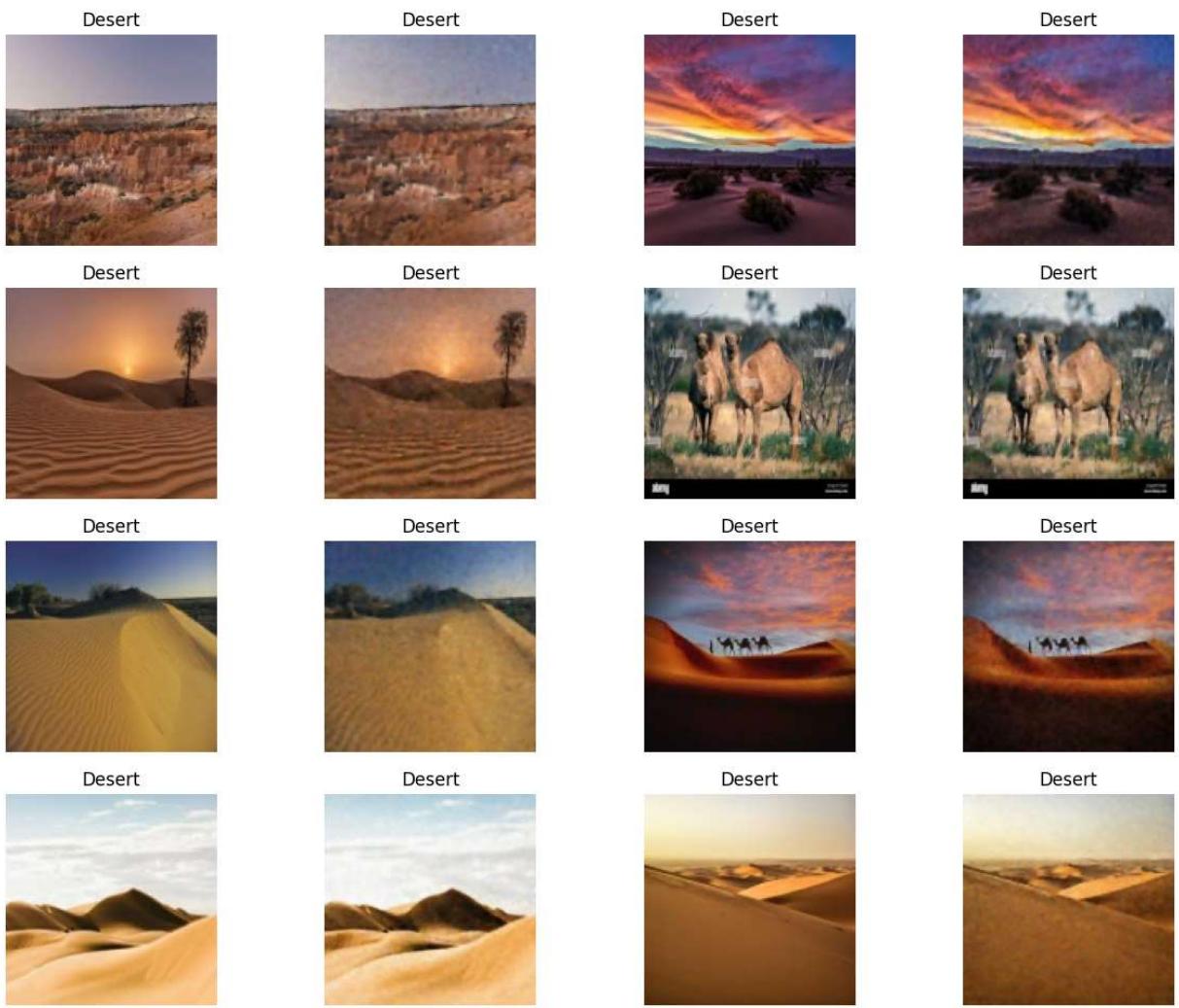
```
120/120 [=====] - 18s 148ms/step - loss: 141.7301 - reconstruction_error: 1.9239 - regularization_error: 84.0146 - val_loss: 896.3358 - val_reconstruction_error: 27.3770 - val_regularization_error: 75.0252
Epoch 952/1000
120/120 [=====] - 15s 129ms/step - loss: 141.3846 - reconstruction_error: 1.9214 - regularization_error: 83.7436 - val_loss: 902.7097 - val_reconstruction_error: 27.5355 - val_regularization_error: 76.6437
Epoch 953/1000
120/120 [=====] - 16s 134ms/step - loss: 141.3161 - reconstruction_error: 1.9164 - regularization_error: 83.8247 - val_loss: 898.6089 - val_reconstruction_error: 27.4130 - val_regularization_error: 76.2175
Epoch 954/1000
120/120 [=====] - 15s 123ms/step - loss: 140.9140 - reconstruction_error: 1.8943 - regularization_error: 84.0851 - val_loss: 893.7313 - val_reconstruction_error: 27.2028 - val_regularization_error: 77.6466
Epoch 955/1000
120/120 [=====] - 17s 142ms/step - loss: 139.8855 - reconstruction_error: 1.8703 - regularization_error: 83.7768 - val_loss: 894.3219 - val_reconstruction_error: 27.1946 - val_regularization_error: 78.4826
Epoch 956/1000
120/120 [=====] - 19s 159ms/step - loss: 140.6465 - reconstruction_error: 1.8951 - regularization_error: 83.7927 - val_loss: 896.0755 - val_reconstruction_error: 27.2992 - val_regularization_error: 77.1004
Epoch 957/1000
120/120 [=====] - 17s 138ms/step - loss: 140.1608 - reconstruction_error: 1.8858 - regularization_error: 83.5875 - val_loss: 897.8350 - val_reconstruction_error: 27.3612 - val_regularization_error: 76.9993
Epoch 958/1000
120/120 [=====] - 17s 138ms/step - loss: 140.8467 - reconstruction_error: 1.8952 - regularization_error: 83.9893 - val_loss: 902.7703 - val_reconstruction_error: 27.4683 - val_regularization_error: 78.7226
Epoch 959/1000
120/120 [=====] - 16s 130ms/step - loss: 143.7707 - reconstruction_error: 1.9835 - regularization_error: 84.2644 - val_loss: 898.4422 - val_reconstruction_error: 27.3555 - val_regularization_error: 77.7785
Epoch 960/1000
120/120 [=====] - 17s 141ms/step - loss: 143.4698 - reconstruction_error: 1.9764 - regularization_error: 84.1778 - val_loss: 899.9019 - val_reconstruction_error: 27.4458 - val_regularization_error: 76.5270
Epoch 961/1000
120/120 [=====] - ETA: 0s - loss: 140.9830 - reconstruction_error: 1.9106 - regularization_error: 83.6642
[2023-12-03 02:12:28.425986]: Reconstructing images for epoch 961 ...
```



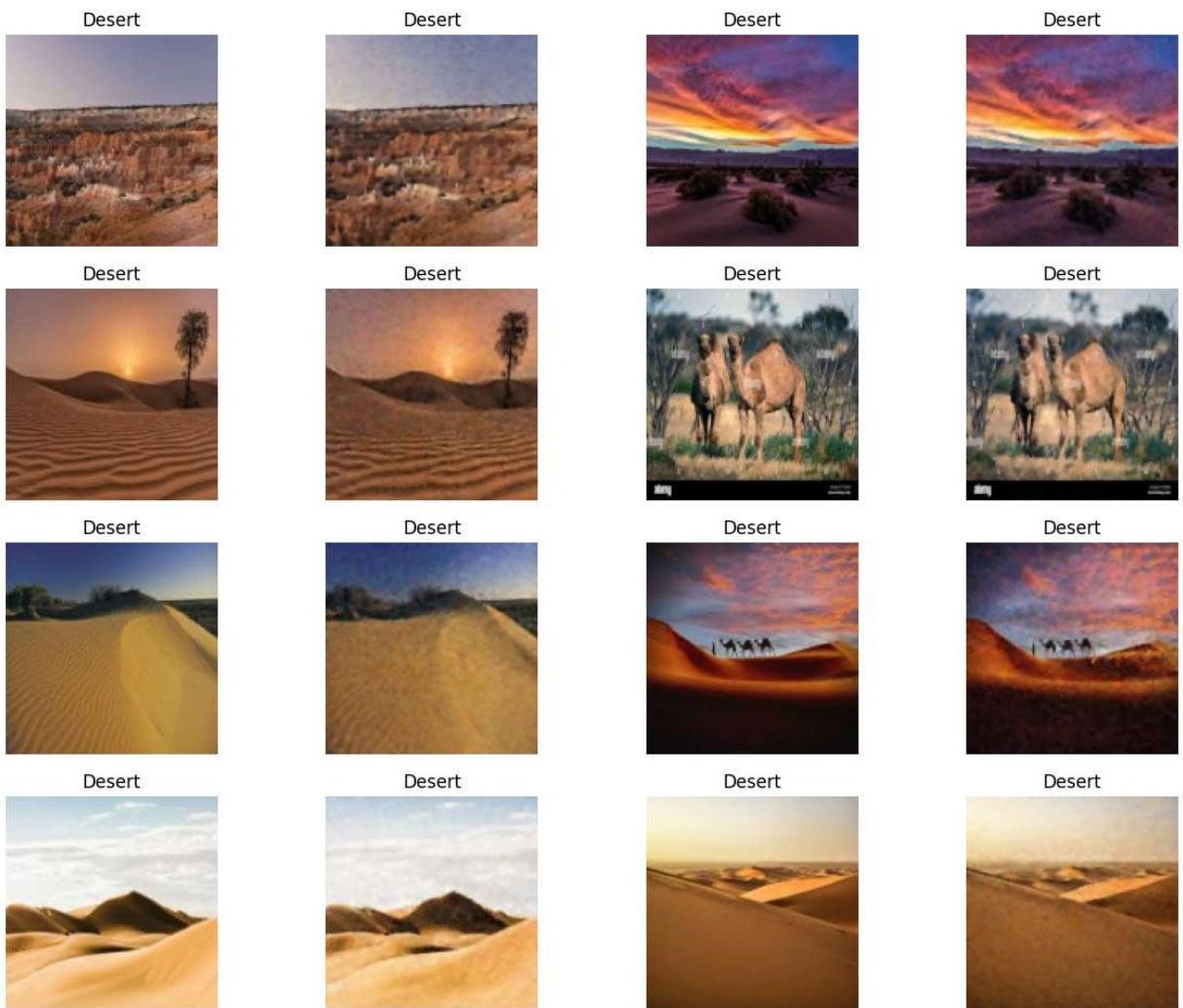
```
120/120 [=====] - 21s 174ms/step - loss: 140.9830 - reconstruction_error: 1.9106 - regularization_error: 83.6642 - val_loss: 900.4666 - val_reconstruction_error: 27.4219 - val_regularization_error: 77.8082
Epoch 962/1000
120/120 [=====] - 15s 125ms/step - loss: 141.1297 - reconstruction_error: 1.9072 - regularization_error: 83.9124 - val_loss: 897.6649 - val_reconstruction_error: 27.3424 - val_regularization_error: 77.3931
Epoch 963/1000
120/120 [=====] - 16s 129ms/step - loss: 139.8279 - reconstruction_error: 1.8770 - regularization_error: 83.5168 - val_loss: 892.2539 - val_reconstruction_error: 27.0514 - val_regularization_error: 80.7124
Epoch 964/1000
120/120 [=====] - 18s 147ms/step - loss: 141.4131 - reconstruction_error: 1.9148 - regularization_error: 83.9684 - val_loss: 895.5634 - val_reconstruction_error: 27.2366 - val_regularization_error: 78.4651
Epoch 965/1000
120/120 [=====] - 16s 131ms/step - loss: 142.5583 - reconstruction_error: 1.9516 - regularization_error: 84.0098 - val_loss: 897.4467 - val_reconstruction_error: 27.3291 - val_regularization_error: 77.5723
Epoch 966/1000
120/120 [=====] - 16s 134ms/step - loss: 139.9939 - reconstruction_error: 1.8776 - regularization_error: 83.6673 - val_loss: 900.7265 - val_reconstruction_error: 27.3906 - val_regularization_error: 79.0071
Epoch 967/1000
120/120 [=====] - 18s 152ms/step - loss: 139.9570 - reconstruction_error: 1.8755 - regularization_error: 83.6926 - val_loss: 897.2726 - val_reconstruction_error: 27.3699 - val_regularization_error: 76.1750
Epoch 968/1000
120/120 [=====] - 17s 139ms/step - loss: 139.7926 - reconstruction_error: 1.8644 - regularization_error: 83.8610 - val_loss: 901.0541 - val_reconstruction_error: 27.4828 - val_regularization_error: 76.5706
Epoch 969/1000
120/120 [=====] - 16s 135ms/step - loss: 139.6951 - reconstruction_error: 1.8691 - regularization_error: 83.6231 - val_loss: 903.1426 - val_reconstruction_error: 27.5253 - val_regularization_error: 77.3827
Epoch 970/1000
120/120 [=====] - 20s 168ms/step - loss: 140.5788 - reconstruction_error: 1.8972 - regularization_error: 83.6631 - val_loss: 902.2504 - val_reconstruction_error: 27.5520 - val_regularization_error: 75.6900
Epoch 971/1000
120/120 [=====] - ETA: 0s - loss: 140.2841 - reconstruction_error: 1.8789 - regularization_error: 83.9166
[2023-12-03 02:15:25.624568]: Reconstructing images for epoch 971 ...
```



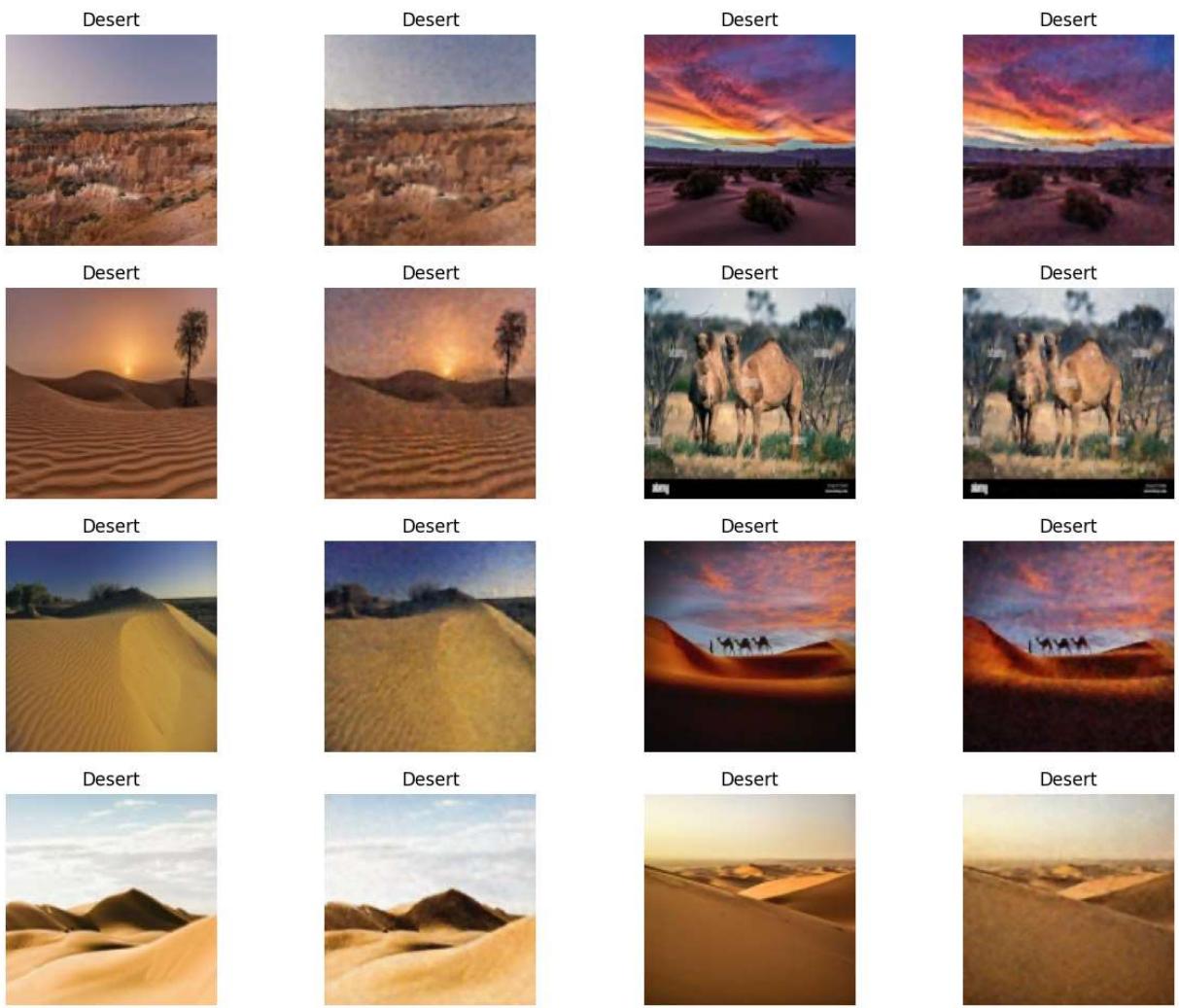
```
120/120 [=====] - 22s 183ms/step - loss: 140.2841 - reconstruction_error: 1.8789 - regularization_error: 83.9166 - val_loss: 904.1447 - val_reconstruction_error: 27.5731 - val_regularization_error: 76.9514
Epoch 972/1000
120/120 [=====] - 14s 119ms/step - loss: 139.7687 - reconstruction_error: 1.8661 - regularization_error: 83.7842 - val_loss: 891.9369 - val_reconstruction_error: 27.1402 - val_regularization_error: 77.7299
Epoch 973/1000
120/120 [=====] - 14s 116ms/step - loss: 139.8472 - reconstruction_error: 1.8765 - regularization_error: 83.5519 - val_loss: 897.6107 - val_reconstruction_error: 27.3140 - val_regularization_error: 78.1907
Epoch 974/1000
120/120 [=====] - 15s 125ms/step - loss: 140.8172 - reconstruction_error: 1.8978 - regularization_error: 83.8843 - val_loss: 908.5096 - val_reconstruction_error: 27.7747 - val_regularization_error: 75.2691
Epoch 975/1000
120/120 [=====] - 17s 137ms/step - loss: 140.8856 - reconstruction_error: 1.9016 - regularization_error: 83.8374 - val_loss: 899.8209 - val_reconstruction_error: 27.3496 - val_regularization_error: 79.3340
Epoch 976/1000
120/120 [=====] - 17s 145ms/step - loss: 141.3569 - reconstruction_error: 1.9168 - regularization_error: 83.8525 - val_loss: 897.1631 - val_reconstruction_error: 27.3427 - val_regularization_error: 76.8809
Epoch 977/1000
120/120 [=====] - 15s 122ms/step - loss: 140.5821 - reconstruction_error: 1.9023 - regularization_error: 83.5142 - val_loss: 912.9523 - val_reconstruction_error: 27.8707 - val_regularization_error: 76.8318
Epoch 978/1000
120/120 [=====] - 16s 128ms/step - loss: 140.9102 - reconstruction_error: 1.8978 - regularization_error: 83.9774 - val_loss: 899.5484 - val_reconstruction_error: 27.3938 - val_regularization_error: 77.7345
Epoch 979/1000
120/120 [=====] - 17s 143ms/step - loss: 143.7331 - reconstruction_error: 1.9894 - regularization_error: 84.0523 - val_loss: 900.7137 - val_reconstruction_error: 27.5041 - val_regularization_error: 75.5915
Epoch 980/1000
120/120 [=====] - 17s 143ms/step - loss: 143.0174 - reconstruction_error: 1.9569 - regularization_error: 84.3098 - val_loss: 896.3380 - val_reconstruction_error: 27.2813 - val_regularization_error: 77.8998
Epoch 981/1000
120/120 [=====] - ETA: 0s - loss: 139.9730 - reconstruction_error: 1.8655 - regularization_error: 84.0075
[2023-12-03 02:18:10.545446]: Reconstructing images for epoch 981 ...
```



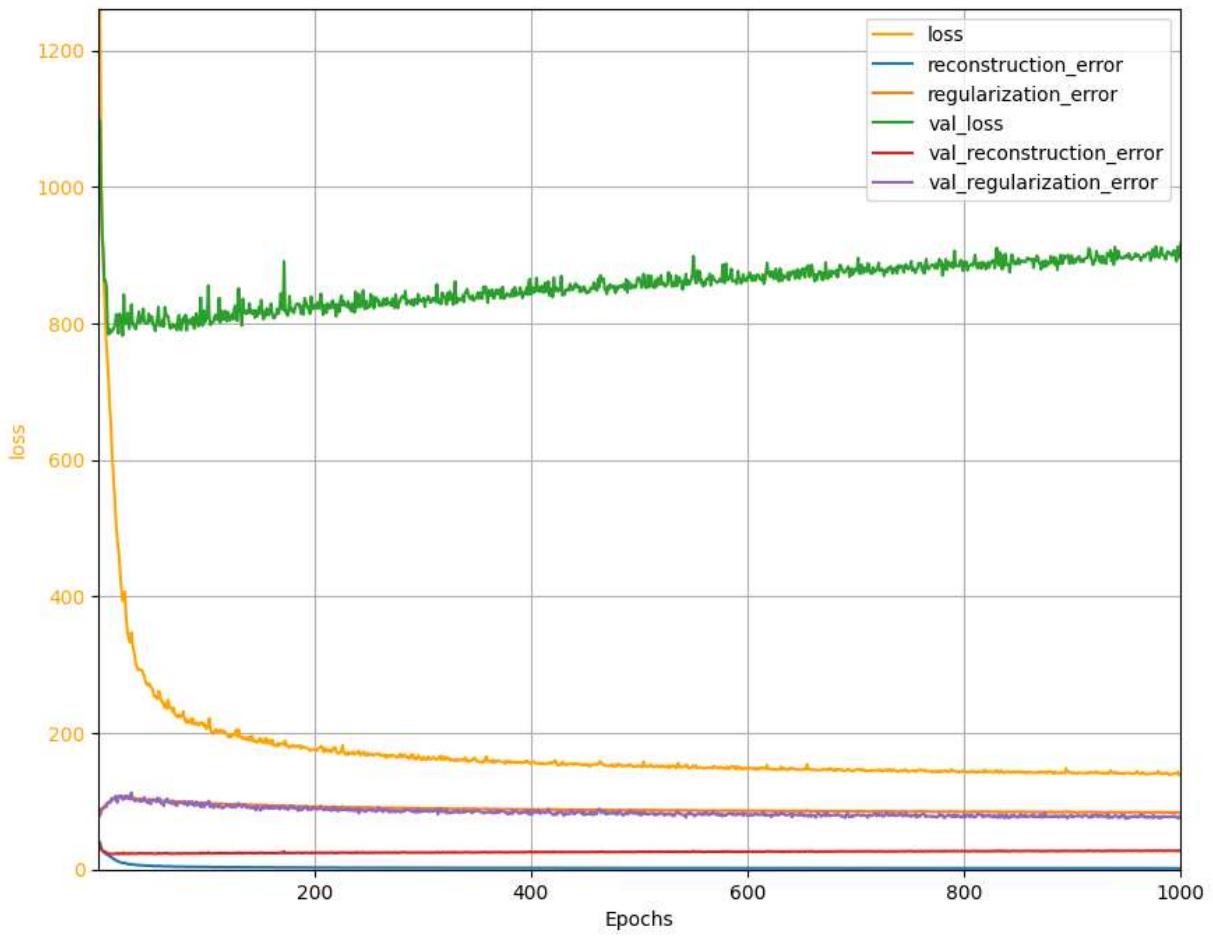
```
120/120 [=====] - 20s 167ms/step - loss: 139.9730 - reconstruction_error: 1.8655 - regularization_error: 84.0075 - val_loss: 906.9308 - val_reconstruction_error: 27.7001 - val_regularization_error: 75.9268
Epoch 982/1000
120/120 [=====] - 17s 143ms/step - loss: 140.6926 - reconstruction_error: 1.8958 - regularization_error: 83.8182 - val_loss: 911.4129 - val_reconstruction_error: 27.8704 - val_regularization_error: 75.2995
Epoch 983/1000
120/120 [=====] - 18s 153ms/step - loss: 140.1778 - reconstruction_error: 1.8768 - regularization_error: 83.8750 - val_loss: 900.4848 - val_reconstruction_error: 27.4086 - val_regularization_error: 78.2266
Epoch 984/1000
120/120 [=====] - 16s 132ms/step - loss: 140.0945 - reconstruction_error: 1.8831 - regularization_error: 83.6017 - val_loss: 899.0887 - val_reconstruction_error: 27.3716 - val_regularization_error: 77.9394
Epoch 985/1000
120/120 [=====] - 16s 135ms/step - loss: 140.8280 - reconstruction_error: 1.9022 - regularization_error: 83.7632 - val_loss: 898.5651 - val_reconstruction_error: 27.3716 - val_regularization_error: 77.4182
Epoch 986/1000
120/120 [=====] - 16s 134ms/step - loss: 141.2160 - reconstruction_error: 1.9126 - regularization_error: 83.8368 - val_loss: 893.6009 - val_reconstruction_error: 27.1946 - val_regularization_error: 77.7629
Epoch 987/1000
120/120 [=====] - 15s 123ms/step - loss: 142.0839 - reconstruction_error: 1.9411 - regularization_error: 83.8515 - val_loss: 903.4291 - val_reconstruction_error: 27.5490 - val_regularization_error: 76.9582
Epoch 988/1000
120/120 [=====] - 18s 148ms/step - loss: 139.9942 - reconstruction_error: 1.8747 - regularization_error: 83.7523 - val_loss: 905.6251 - val_reconstruction_error: 27.6038 - val_regularization_error: 77.5104
Epoch 989/1000
120/120 [=====] - 15s 129ms/step - loss: 138.8486 - reconstruction_error: 1.8445 - regularization_error: 83.5142 - val_loss: 901.6781 - val_reconstruction_error: 27.4979 - val_regularization_error: 76.7412
Epoch 990/1000
120/120 [=====] - 16s 134ms/step - loss: 139.3847 - reconstruction_error: 1.8643 - regularization_error: 83.4549 - val_loss: 903.2608 - val_reconstruction_error: 27.5205 - val_regularization_error: 77.6471
Epoch 991/1000
119/120 [=====.>.] - ETA: 0s - loss: 139.6151 - reconstruction_error: 1.8628 - regularization_error: 83.7315
[2023-12-03 02:20:56.691076]: Reconstructing images for epoch 991 ...
```



```
120/120 [=====] - 17s 142ms/step - loss: 139.6593 - reconstruction_error: 1.8637 - regularization_error: 83.7482 - val_loss: 902.2125 - val_reconstruction_error: 27.5018 - val_regularization_error: 77.1594
Epoch 992/1000
120/120 [=====] - 14s 119ms/step - loss: 139.7606 - reconstruction_error: 1.8734 - regularization_error: 83.5585 - val_loss: 899.0328 - val_reconstruction_error: 27.3874 - val_regularization_error: 77.4116
Epoch 993/1000
120/120 [=====] - 17s 139ms/step - loss: 139.7762 - reconstruction_error: 1.8816 - regularization_error: 83.3295 - val_loss: 906.0237 - val_reconstruction_error: 27.5732 - val_regularization_error: 78.8267
Epoch 994/1000
120/120 [=====] - 16s 129ms/step - loss: 140.9501 - reconstruction_error: 1.9129 - regularization_error: 83.5628 - val_loss: 907.1154 - val_reconstruction_error: 27.6606 - val_regularization_error: 77.2981
Epoch 995/1000
120/120 [=====] - 14s 114ms/step - loss: 140.2625 - reconstruction_error: 1.8884 - regularization_error: 83.6105 - val_loss: 900.6813 - val_reconstruction_error: 27.4209 - val_regularization_error: 78.0554
Epoch 996/1000
120/120 [=====] - 16s 136ms/step - loss: 140.4989 - reconstruction_error: 1.8909 - regularization_error: 83.7732 - val_loss: 891.2380 - val_reconstruction_error: 27.1536 - val_regularization_error: 76.6303
Epoch 997/1000
120/120 [=====] - 16s 136ms/step - loss: 143.1615 - reconstruction_error: 1.9742 - regularization_error: 83.9367 - val_loss: 912.4109 - val_reconstruction_error: 27.9187 - val_regularization_error: 74.8510
Epoch 998/1000
120/120 [=====] - 14s 115ms/step - loss: 139.4530 - reconstruction_error: 1.8563 - regularization_error: 83.7628 - val_loss: 896.4623 - val_reconstruction_error: 27.3326 - val_regularization_error: 76.4856
Epoch 999/1000
120/120 [=====] - 18s 147ms/step - loss: 138.3569 - reconstruction_error: 1.8362 - regularization_error: 83.2712 - val_loss: 902.4219 - val_reconstruction_error: 27.4871 - val_regularization_error: 77.8097
Epoch 1000/1000
120/120 [=====] - ETA: 0s - loss: 139.9726 - reconstruction_error: 1.8687 - regularization_error: 83.9130
[2023-12-03 02:23:18.762248]: Reconstructing images for epoch 1000 ...
```



120/120 [=====] - 16s 135ms/step - loss: 139.9726 - reconstruction\_error: 1.8687 - regularization\_error: 83.9130 - val\_loss: 917.4907 - val\_reconstruction\_error: 28.0672 - val\_regularization\_error: 75.4744



## Generation

