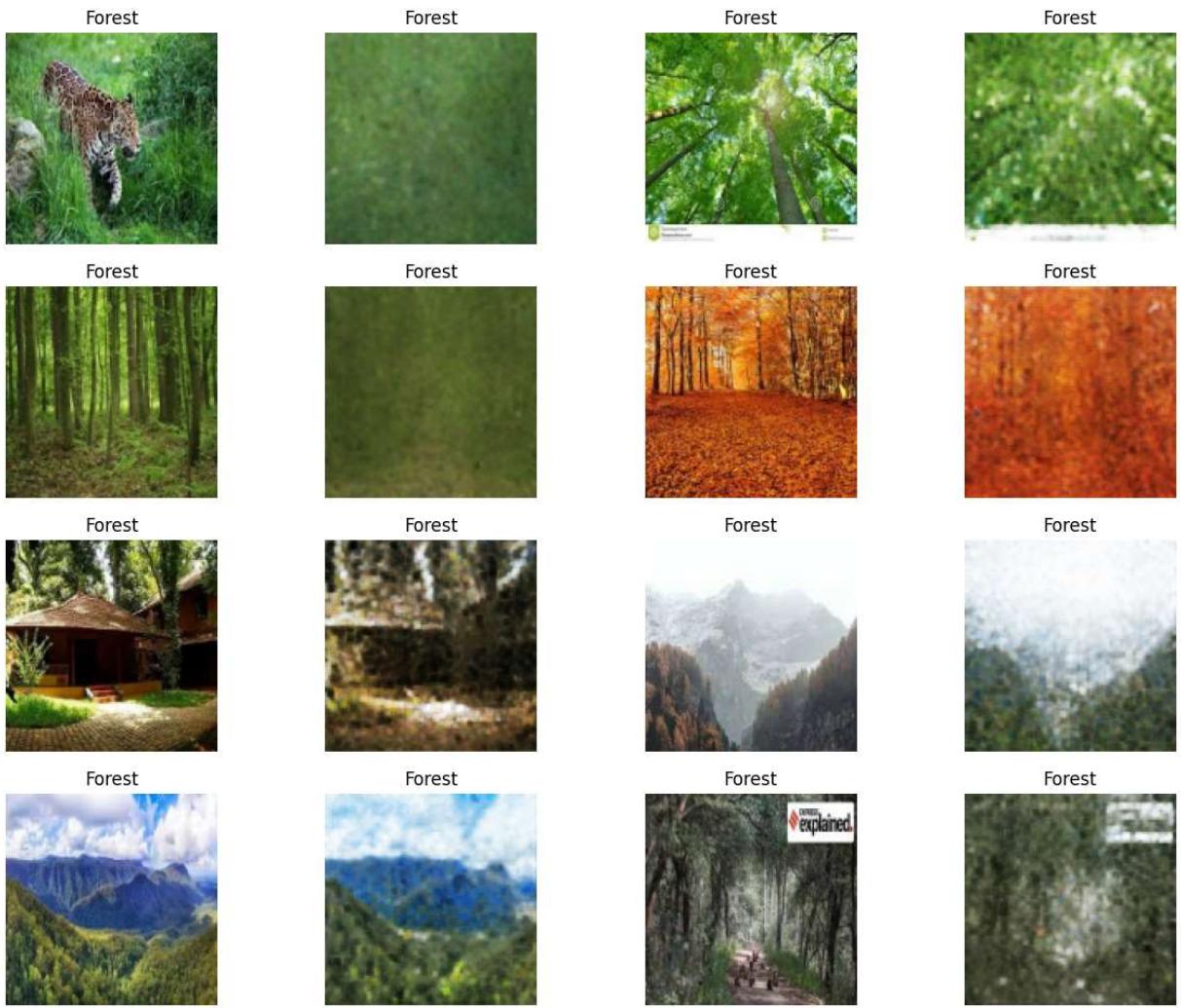


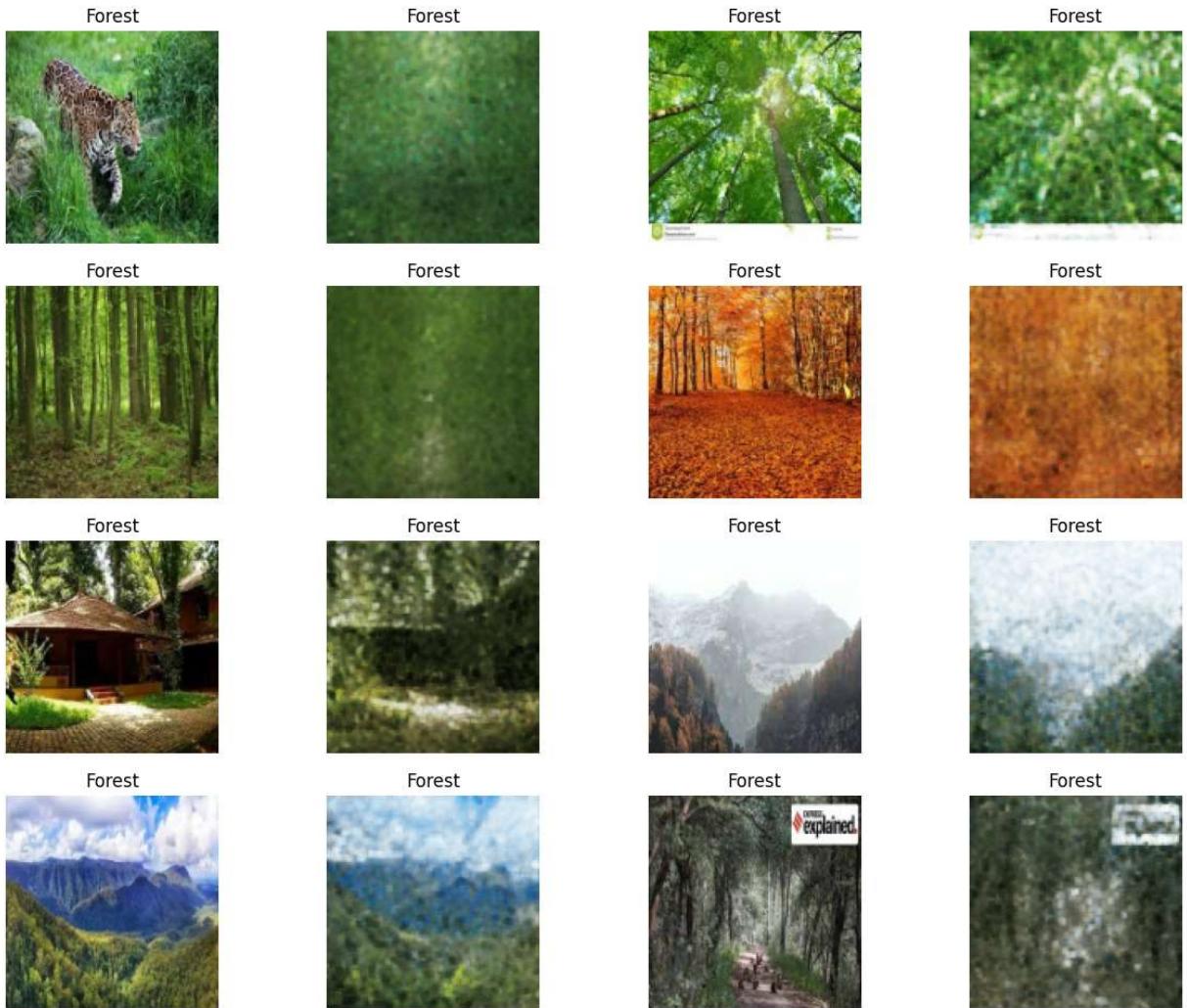
```
120/120 [=====] - 26s 214ms/step - loss: 42.3020 - reconstruction_error: 25.8153 - regularization_error: 16.4867 - val_loss: 68.3853 - val_reconstruction_error: 53.6719 - val_regularization_error: 14.7134
Epoch 502/1000
120/120 [=====] - 21s 173ms/step - loss: 42.1796 - reconstruction_error: 25.8230 - regularization_error: 16.3566 - val_loss: 69.1685 - val_reconstruction_error: 54.1735 - val_regularization_error: 14.9950
Epoch 503/1000
120/120 [=====] - 22s 178ms/step - loss: 42.2136 - reconstruction_error: 25.8529 - regularization_error: 16.3607 - val_loss: 68.3544 - val_reconstruction_error: 53.4632 - val_regularization_error: 14.8912
Epoch 504/1000
120/120 [=====] - 25s 211ms/step - loss: 42.3333 - reconstruction_error: 25.8775 - regularization_error: 16.4558 - val_loss: 67.4877 - val_reconstruction_error: 53.7186 - val_regularization_error: 13.7692
Epoch 505/1000
120/120 [=====] - 23s 190ms/step - loss: 42.2723 - reconstruction_error: 25.8197 - regularization_error: 16.4525 - val_loss: 67.8146 - val_reconstruction_error: 54.0380 - val_regularization_error: 13.7766
Epoch 506/1000
120/120 [=====] - 23s 194ms/step - loss: 42.3090 - reconstruction_error: 25.8849 - regularization_error: 16.4241 - val_loss: 69.7339 - val_reconstruction_error: 54.4423 - val_regularization_error: 15.2916
Epoch 507/1000
120/120 [=====] - 19s 158ms/step - loss: 42.3479 - reconstruction_error: 25.8451 - regularization_error: 16.5028 - val_loss: 69.1078 - val_reconstruction_error: 53.8706 - val_regularization_error: 15.2372
Epoch 508/1000
120/120 [=====] - 21s 179ms/step - loss: 42.3436 - reconstruction_error: 25.9547 - regularization_error: 16.3890 - val_loss: 68.9656 - val_reconstruction_error: 54.2685 - val_regularization_error: 14.6971
Epoch 509/1000
120/120 [=====] - 23s 193ms/step - loss: 42.2538 - reconstruction_error: 25.8242 - regularization_error: 16.4296 - val_loss: 68.5523 - val_reconstruction_error: 54.0504 - val_regularization_error: 14.5019
Epoch 510/1000
120/120 [=====] - 22s 180ms/step - loss: 42.3043 - reconstruction_error: 25.9127 - regularization_error: 16.3917 - val_loss: 68.2056 - val_reconstruction_error: 54.2308 - val_regularization_error: 13.9749
Epoch 511/1000
120/120 [=====] - ETA: 0s - loss: 42.0764 - reconstruction_error: 25.6350 - regularization_error: 16.4415
[2023-12-02 00:59:22.243172]: Reconstructing images for epoch 511 ...
```



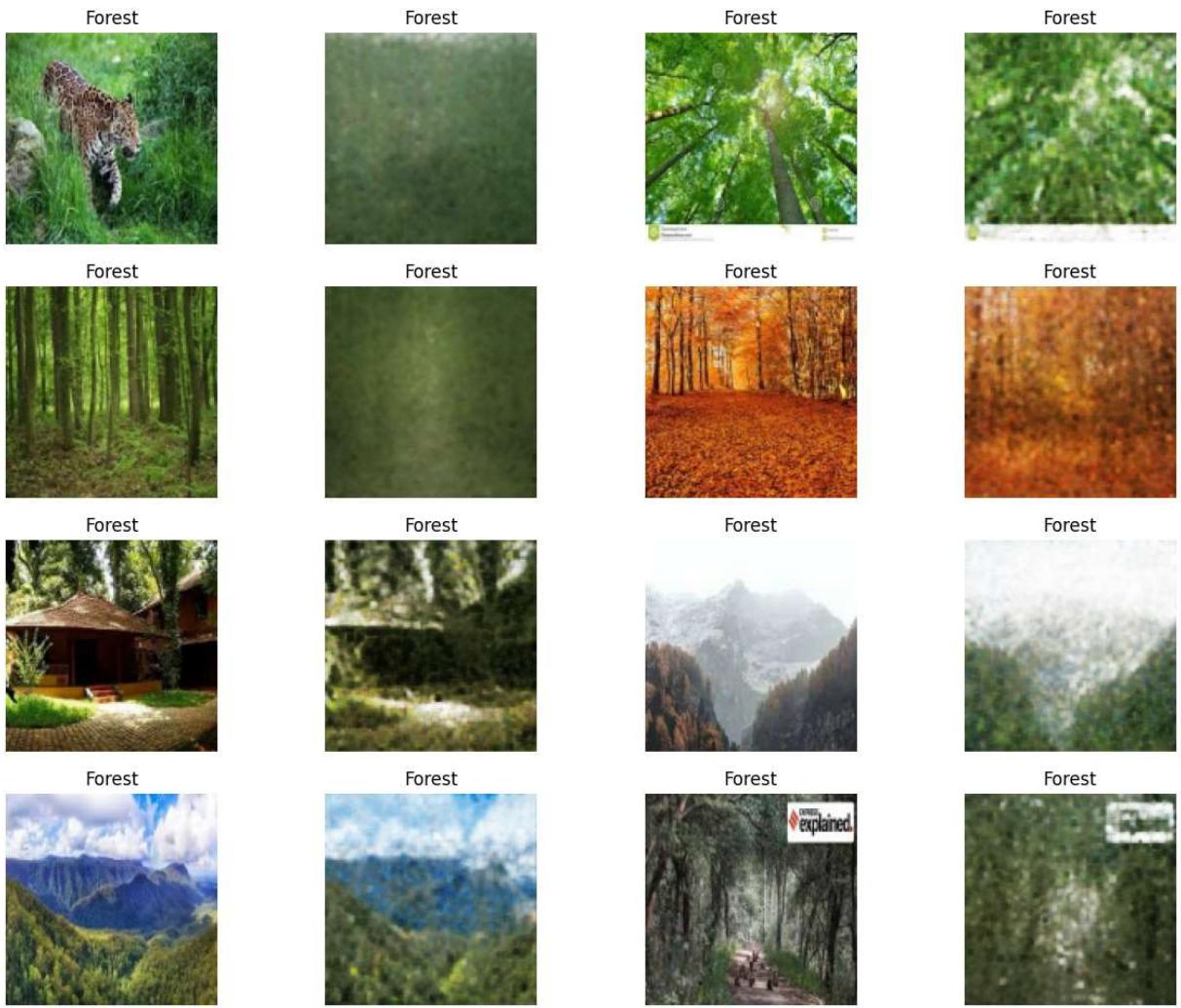
```
120/120 [=====] - 31s 255ms/step - loss: 42.0764 - reconstruction_error: 25.6350 - regularization_error: 16.4415 - val_loss: 68.9107 - val_reconstruction_error: 54.3603 - val_regularization_error: 14.5505
Epoch 512/1000
120/120 [=====] - 20s 166ms/step - loss: 42.3270 - reconstruction_error: 25.7862 - regularization_error: 16.5408 - val_loss: 69.0827 - val_reconstruction_error: 54.5205 - val_regularization_error: 14.5622
Epoch 513/1000
120/120 [=====] - 21s 171ms/step - loss: 42.0762 - reconstruction_error: 25.6808 - regularization_error: 16.3954 - val_loss: 68.1623 - val_reconstruction_error: 54.1630 - val_regularization_error: 13.9993
Epoch 514/1000
120/120 [=====] - 22s 184ms/step - loss: 42.0776 - reconstruction_error: 25.6397 - regularization_error: 16.4379 - val_loss: 69.2119 - val_reconstruction_error: 54.0316 - val_regularization_error: 15.1803
Epoch 515/1000
120/120 [=====] - 19s 159ms/step - loss: 42.4484 - reconstruction_error: 25.8717 - regularization_error: 16.5768 - val_loss: 69.7509 - val_reconstruction_error: 54.9116 - val_regularization_error: 14.8393
Epoch 516/1000
120/120 [=====] - 25s 210ms/step - loss: 42.2486 - reconstruction_error: 25.7041 - regularization_error: 16.5445 - val_loss: 68.2340 - val_reconstruction_error: 54.2154 - val_regularization_error: 14.0186
Epoch 517/1000
120/120 [=====] - 22s 182ms/step - loss: 41.8472 - reconstruction_error: 25.4962 - regularization_error: 16.3510 - val_loss: 68.8703 - val_reconstruction_error: 54.2211 - val_regularization_error: 14.6492
Epoch 518/1000
120/120 [=====] - 19s 159ms/step - loss: 42.0094 - reconstruction_error: 25.5846 - regularization_error: 16.4248 - val_loss: 68.9070 - val_reconstruction_error: 54.9689 - val_regularization_error: 13.9381
Epoch 519/1000
120/120 [=====] - 28s 227ms/step - loss: 41.9156 - reconstruction_error: 25.5264 - regularization_error: 16.3892 - val_loss: 68.3608 - val_reconstruction_error: 54.0192 - val_regularization_error: 14.3415
Epoch 520/1000
120/120 [=====] - 21s 174ms/step - loss: 42.0048 - reconstruction_error: 25.6553 - regularization_error: 16.3495 - val_loss: 69.0751 - val_reconstruction_error: 53.8812 - val_regularization_error: 15.1939
Epoch 521/1000
120/120 [=====] - ETA: 0s - loss: 42.1588 - reconstruction_error: 25.7256 - regularization_error: 16.4331
[2023-12-02 01:03:07.689668]: Reconstructing images for epoch 521 ...
```



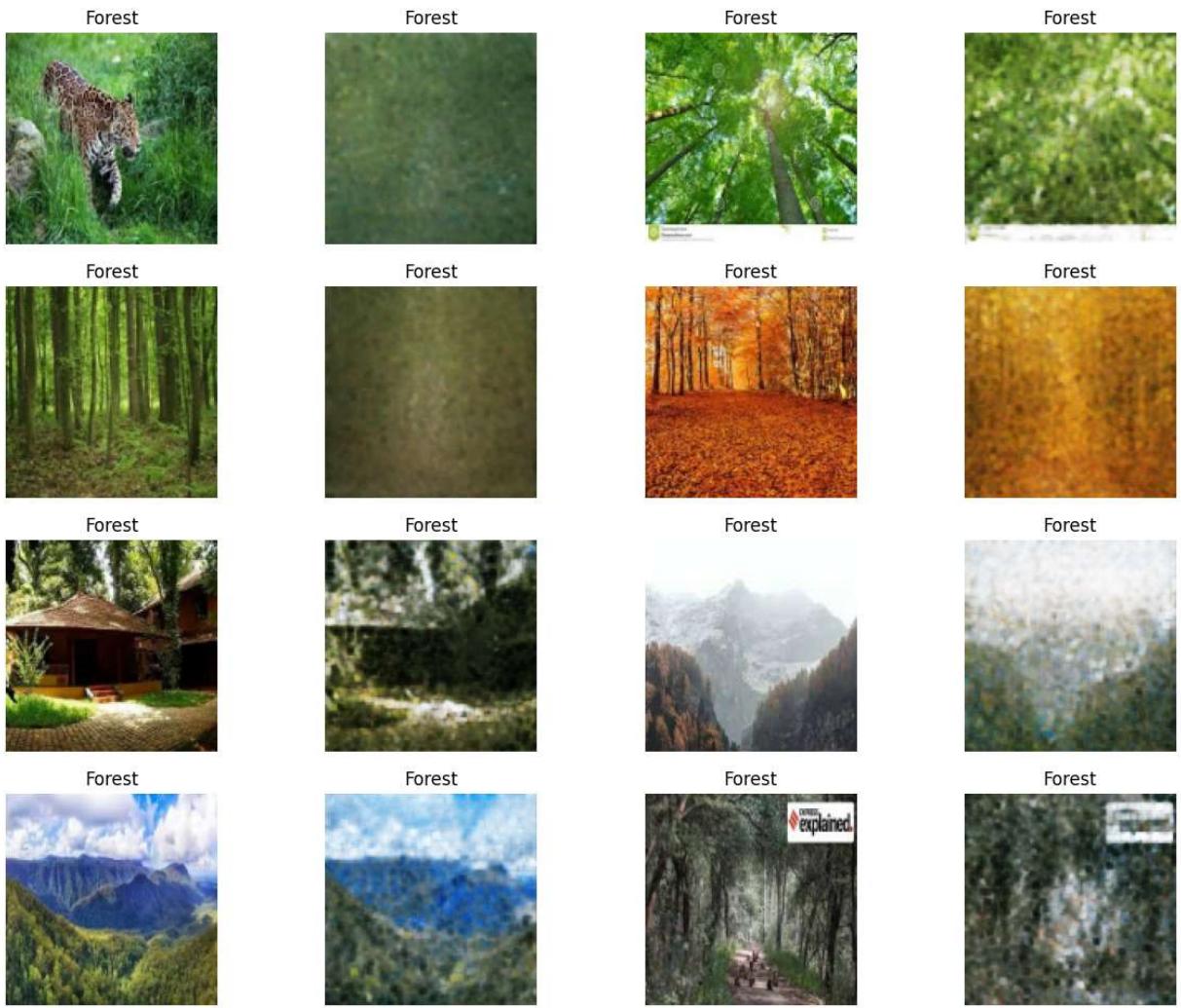
```
120/120 [=====] - 27s 224ms/step - loss: 42.1588 - reconstruction_error: 25.7256 - regularization_error: 16.4331 - val_loss: 69.3611 - val_reconstruction_error: 54.1109 - val_regularization_error: 15.2502
Epoch 522/1000
120/120 [=====] - 19s 158ms/step - loss: 41.9893 - reconstruction_error: 25.6158 - regularization_error: 16.3735 - val_loss: 68.7645 - val_reconstruction_error: 54.5857 - val_regularization_error: 14.1788
Epoch 523/1000
120/120 [=====] - 19s 156ms/step - loss: 42.0711 - reconstruction_error: 25.5397 - regularization_error: 16.5313 - val_loss: 68.3429 - val_reconstruction_error: 53.9291 - val_regularization_error: 14.4138
Epoch 524/1000
120/120 [=====] - 19s 154ms/step - loss: 42.0645 - reconstruction_error: 25.5178 - regularization_error: 16.5466 - val_loss: 69.0283 - val_reconstruction_error: 54.4484 - val_regularization_error: 14.5799
Epoch 525/1000
120/120 [=====] - 19s 162ms/step - loss: 41.7727 - reconstruction_error: 25.4378 - regularization_error: 16.3348 - val_loss: 69.8079 - val_reconstruction_error: 54.1363 - val_regularization_error: 15.6716
Epoch 526/1000
120/120 [=====] - 20s 165ms/step - loss: 41.7527 - reconstruction_error: 25.3780 - regularization_error: 16.3747 - val_loss: 67.5962 - val_reconstruction_error: 53.5658 - val_regularization_error: 14.0304
Epoch 527/1000
120/120 [=====] - 23s 193ms/step - loss: 42.1654 - reconstruction_error: 25.6020 - regularization_error: 16.5634 - val_loss: 68.4364 - val_reconstruction_error: 54.0383 - val_regularization_error: 14.3981
Epoch 528/1000
120/120 [=====] - 24s 199ms/step - loss: 42.1676 - reconstruction_error: 25.5310 - regularization_error: 16.6366 - val_loss: 68.6705 - val_reconstruction_error: 53.6790 - val_regularization_error: 14.9915
Epoch 529/1000
120/120 [=====] - 22s 182ms/step - loss: 42.0045 - reconstruction_error: 25.4972 - regularization_error: 16.5073 - val_loss: 68.2994 - val_reconstruction_error: 53.0866 - val_regularization_error: 15.2128
Epoch 530/1000
120/120 [=====] - 23s 187ms/step - loss: 41.7830 - reconstruction_error: 25.4327 - regularization_error: 16.3503 - val_loss: 69.0372 - val_reconstruction_error: 53.9288 - val_regularization_error: 15.1084
Epoch 531/1000
120/120 [=====] - ETA: 0s - loss: 41.7689 - reconstruction_error: 25.3361 - regularization_error: 16.4328
[2023-12-02 01:06:47.067106]: Reconstructing images for epoch 531 ...
```



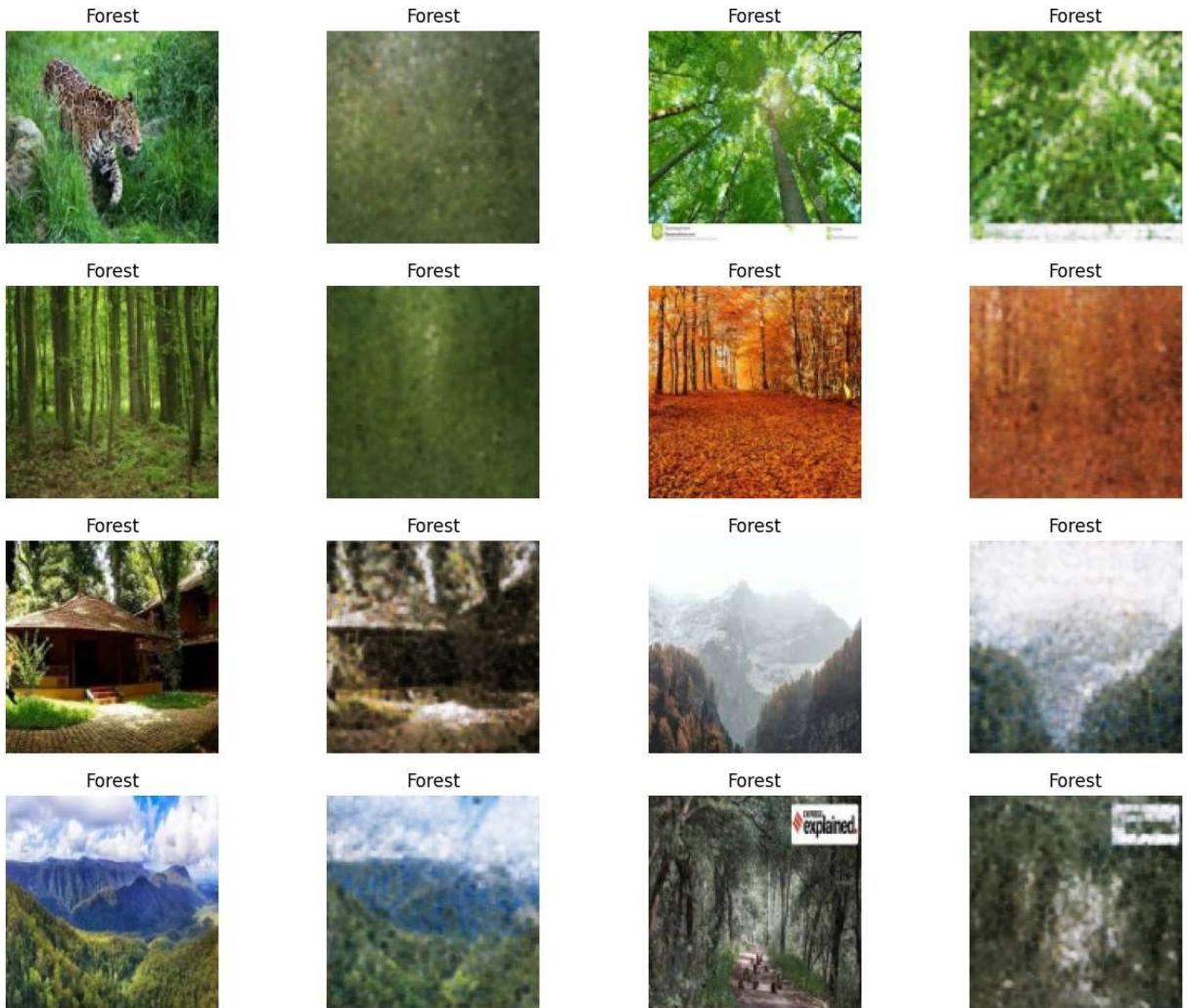
```
120/120 [=====] - 29s 242ms/step - loss: 41.7689 - reconstruction_error: 25.3361 - regularization_error: 16.4328 - val_loss: 68.1827 - val_reconstruction_error: 53.7289 - val_regularization_error: 14.4538
Epoch 532/1000
120/120 [=====] - 21s 175ms/step - loss: 41.8975 - reconstruction_error: 25.4891 - regularization_error: 16.4085 - val_loss: 68.5183 - val_reconstruction_error: 54.4441 - val_regularization_error: 14.0742
Epoch 533/1000
120/120 [=====] - 26s 219ms/step - loss: 41.8441 - reconstruction_error: 25.4793 - regularization_error: 16.3649 - val_loss: 68.5683 - val_reconstruction_error: 53.6890 - val_regularization_error: 14.8793
Epoch 534/1000
120/120 [=====] - 22s 184ms/step - loss: 41.8247 - reconstruction_error: 25.4116 - regularization_error: 16.4131 - val_loss: 68.7876 - val_reconstruction_error: 54.2641 - val_regularization_error: 14.5234
Epoch 535/1000
120/120 [=====] - 21s 177ms/step - loss: 41.8765 - reconstruction_error: 25.3517 - regularization_error: 16.5249 - val_loss: 69.1744 - val_reconstruction_error: 53.9653 - val_regularization_error: 15.2091
Epoch 536/1000
120/120 [=====] - 19s 157ms/step - loss: 41.9362 - reconstruction_error: 25.4794 - regularization_error: 16.4568 - val_loss: 69.8718 - val_reconstruction_error: 54.6302 - val_regularization_error: 15.2416
Epoch 537/1000
120/120 [=====] - 23s 190ms/step - loss: 41.7712 - reconstruction_error: 25.2963 - regularization_error: 16.4749 - val_loss: 68.5202 - val_reconstruction_error: 53.7065 - val_regularization_error: 14.8138
Epoch 538/1000
120/120 [=====] - 24s 197ms/step - loss: 41.6626 - reconstruction_error: 25.2764 - regularization_error: 16.3862 - val_loss: 68.2668 - val_reconstruction_error: 54.1137 - val_regularization_error: 14.1530
Epoch 539/1000
120/120 [=====] - 22s 185ms/step - loss: 41.9560 - reconstruction_error: 25.4405 - regularization_error: 16.5156 - val_loss: 68.6909 - val_reconstruction_error: 54.2603 - val_regularization_error: 14.4306
Epoch 540/1000
120/120 [=====] - 28s 235ms/step - loss: 41.8410 - reconstruction_error: 25.3261 - regularization_error: 16.5149 - val_loss: 68.1280 - val_reconstruction_error: 53.8017 - val_regularization_error: 14.3262
Epoch 541/1000
120/120 [=====] - ETA: 0s - loss: 41.5436 - reconstruction_error: 25.2428 - regularization_error: 16.3008
[2023-12-02 01:10:42.991020]: Reconstructing images for epoch 541 ...
```



```
120/120 [=====] - 26s 216ms/step - loss: 41.5436 - reconstruction_error: 25.2428 - regularization_error: 16.3008 - val_loss: 68.7564 - val_reconstruction_error: 55.2457 - val_regularization_error: 13.5108
Epoch 542/1000
120/120 [=====] - 24s 197ms/step - loss: 41.9820 - reconstruction_error: 25.4782 - regularization_error: 16.5038 - val_loss: 68.0081 - val_reconstruction_error: 53.5417 - val_regularization_error: 14.4664
Epoch 543/1000
120/120 [=====] - 23s 193ms/step - loss: 41.5423 - reconstruction_error: 25.1993 - regularization_error: 16.3430 - val_loss: 68.5913 - val_reconstruction_error: 54.8309 - val_regularization_error: 13.7604
Epoch 544/1000
120/120 [=====] - 22s 179ms/step - loss: 41.7446 - reconstruction_error: 25.3137 - regularization_error: 16.4309 - val_loss: 69.0876 - val_reconstruction_error: 53.6081 - val_regularization_error: 15.4795
Epoch 545/1000
120/120 [=====] - 23s 188ms/step - loss: 41.6395 - reconstruction_error: 25.1558 - regularization_error: 16.4837 - val_loss: 70.3061 - val_reconstruction_error: 54.9184 - val_regularization_error: 15.3877
Epoch 546/1000
120/120 [=====] - 25s 206ms/step - loss: 41.9467 - reconstruction_error: 25.4637 - regularization_error: 16.4830 - val_loss: 69.2799 - val_reconstruction_error: 53.9315 - val_regularization_error: 15.3484
Epoch 547/1000
120/120 [=====] - 24s 203ms/step - loss: 41.7236 - reconstruction_error: 25.2380 - regularization_error: 16.4857 - val_loss: 71.5738 - val_reconstruction_error: 55.1443 - val_regularization_error: 16.4295
Epoch 548/1000
120/120 [=====] - 27s 227ms/step - loss: 41.9058 - reconstruction_error: 25.2013 - regularization_error: 16.7045 - val_loss: 68.3980 - val_reconstruction_error: 53.8229 - val_regularization_error: 14.5751
Epoch 549/1000
120/120 [=====] - 22s 185ms/step - loss: 41.6469 - reconstruction_error: 25.1261 - regularization_error: 16.5208 - val_loss: 69.1879 - val_reconstruction_error: 54.9589 - val_regularization_error: 14.2290
Epoch 550/1000
120/120 [=====] - 23s 193ms/step - loss: 41.6878 - reconstruction_error: 25.2028 - regularization_error: 16.4850 - val_loss: 68.7590 - val_reconstruction_error: 54.1062 - val_regularization_error: 14.6528
Epoch 551/1000
120/120 [=====] - ETA: 0s - loss: 41.6749 - reconstruction_error: 25.0537 - regularization_error: 16.6212
[2023-12-02 01:14:44.578846]: Reconstructing images for epoch 551 ...
```



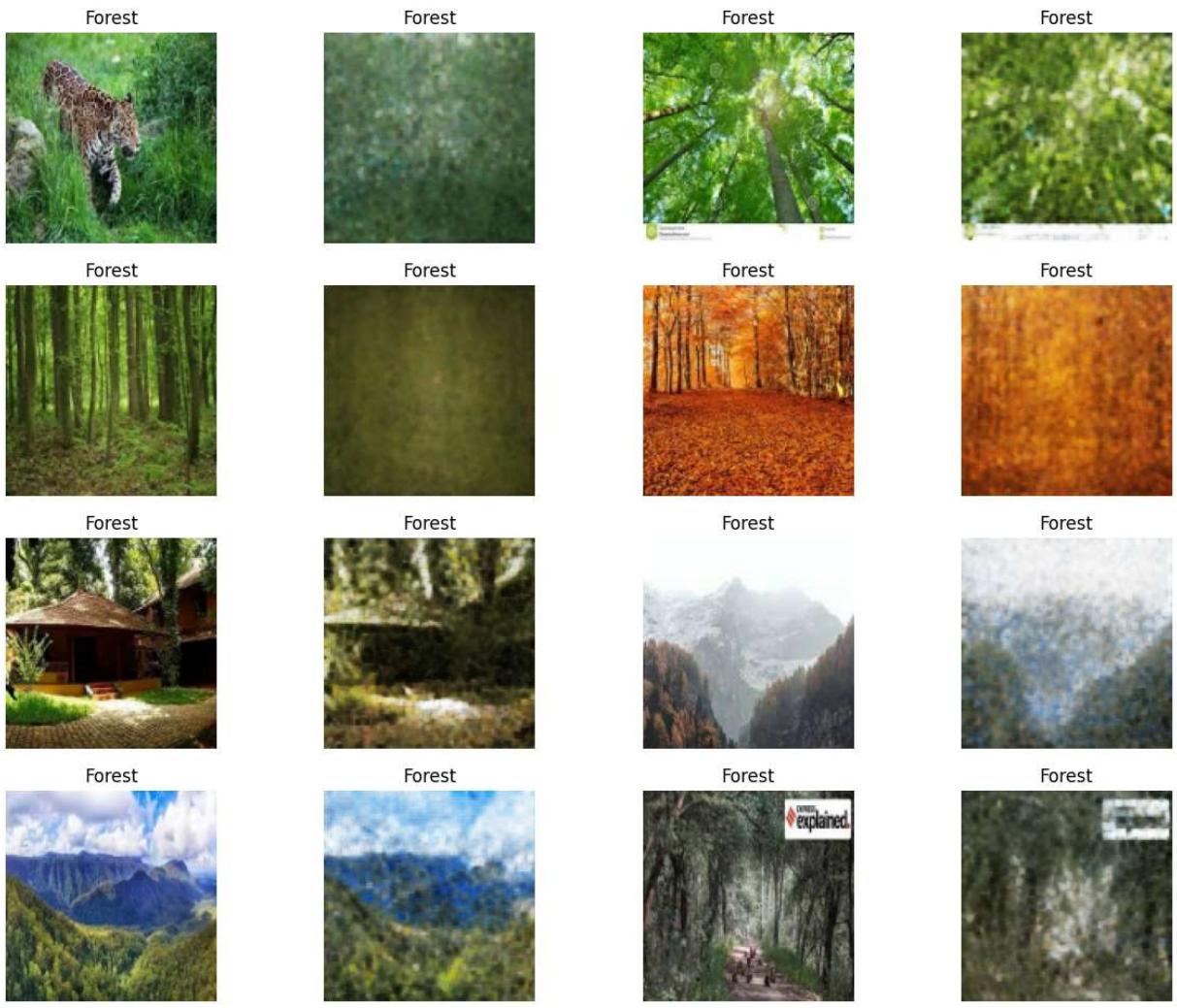
```
120/120 [=====] - 27s 221ms/step - loss: 41.6749 - reconstruction_error: 25.0537 - regularization_error: 16.6212 - val_loss: 68.5718 - val_reconstruction_error: 54.7216 - val_regularization_error: 13.8502
Epoch 552/1000
120/120 [=====] - 22s 185ms/step - loss: 41.7296 - reconstruction_error: 25.1548 - regularization_error: 16.5748 - val_loss: 68.2383 - val_reconstruction_error: 53.7275 - val_regularization_error: 14.5108
Epoch 553/1000
120/120 [=====] - 23s 194ms/step - loss: 41.6506 - reconstruction_error: 25.1061 - regularization_error: 16.5445 - val_loss: 69.9765 - val_reconstruction_error: 55.0445 - val_regularization_error: 14.9320
Epoch 554/1000
120/120 [=====] - 25s 202ms/step - loss: 41.6034 - reconstruction_error: 25.0780 - regularization_error: 16.5254 - val_loss: 68.7584 - val_reconstruction_error: 54.3171 - val_regularization_error: 14.4413
Epoch 555/1000
120/120 [=====] - 24s 196ms/step - loss: 41.5517 - reconstruction_error: 25.0188 - regularization_error: 16.5329 - val_loss: 68.5747 - val_reconstruction_error: 54.3101 - val_regularization_error: 14.2646
Epoch 556/1000
120/120 [=====] - 20s 165ms/step - loss: 41.7066 - reconstruction_error: 25.1259 - regularization_error: 16.5807 - val_loss: 68.1567 - val_reconstruction_error: 54.3810 - val_regularization_error: 13.7758
Epoch 557/1000
120/120 [=====] - 26s 217ms/step - loss: 41.6905 - reconstruction_error: 25.0042 - regularization_error: 16.6863 - val_loss: 68.6524 - val_reconstruction_error: 53.7098 - val_regularization_error: 14.9427
Epoch 558/1000
120/120 [=====] - 19s 160ms/step - loss: 41.5268 - reconstruction_error: 25.0215 - regularization_error: 16.5053 - val_loss: 68.5620 - val_reconstruction_error: 53.9625 - val_regularization_error: 14.5995
Epoch 559/1000
120/120 [=====] - 22s 182ms/step - loss: 41.6768 - reconstruction_error: 25.1835 - regularization_error: 16.4933 - val_loss: 70.0573 - val_reconstruction_error: 54.5949 - val_regularization_error: 15.4624
Epoch 560/1000
120/120 [=====] - 24s 196ms/step - loss: 41.5147 - reconstruction_error: 24.9454 - regularization_error: 16.5693 - val_loss: 70.1500 - val_reconstruction_error: 55.3290 - val_regularization_error: 14.8210
Epoch 561/1000
120/120 [=====] - ETA: 0s - loss: 41.4925 - reconstruction_error: 24.9503 - regularization_error: 16.5422
[2023-12-02 01:18:40.789573]: Reconstructing images for epoch 561 ...
```



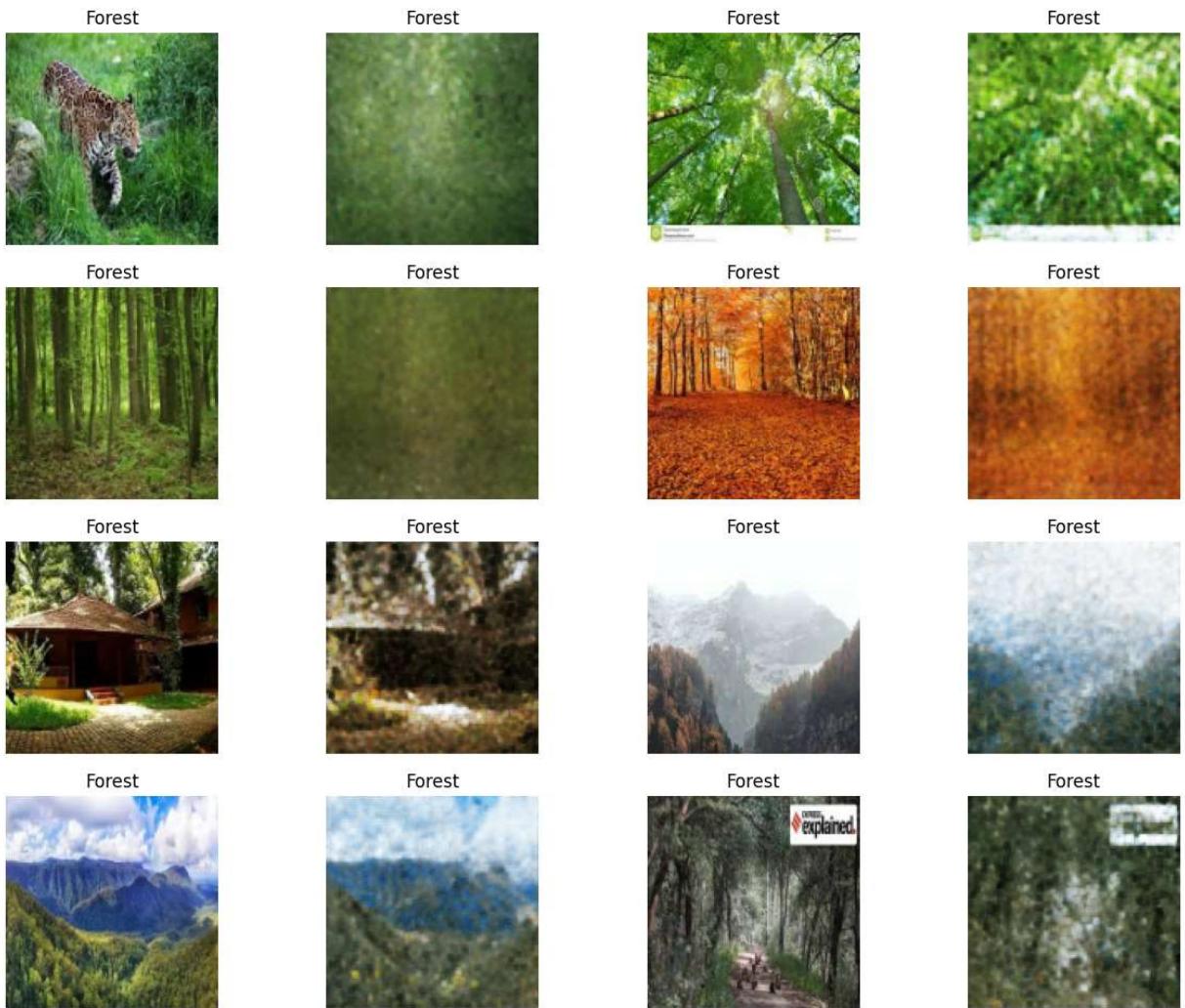
```
120/120 [=====] - 28s 230ms/step - loss: 41.4925 - reconstruction_error: 24.9503 - regularization_error: 16.5422 - val_loss: 68.4913 - val_reconstruction_error: 54.7850 - val_regularization_error: 13.7063
Epoch 562/1000
120/120 [=====] - 21s 176ms/step - loss: 41.5436 - reconstruction_error: 25.0408 - regularization_error: 16.5028 - val_loss: 69.5662 - val_reconstruction_error: 54.3093 - val_regularization_error: 15.2569
Epoch 563/1000
120/120 [=====] - 21s 173ms/step - loss: 41.6337 - reconstruction_error: 25.0074 - regularization_error: 16.6262 - val_loss: 70.1507 - val_reconstruction_error: 54.8348 - val_regularization_error: 15.3159
Epoch 564/1000
120/120 [=====] - 22s 179ms/step - loss: 41.4784 - reconstruction_error: 24.9490 - regularization_error: 16.5294 - val_loss: 67.7200 - val_reconstruction_error: 53.7535 - val_regularization_error: 13.9664
Epoch 565/1000
120/120 [=====] - 27s 224ms/step - loss: 41.3451 - reconstruction_error: 24.8420 - regularization_error: 16.5031 - val_loss: 69.3001 - val_reconstruction_error: 54.2935 - val_regularization_error: 15.0066
Epoch 566/1000
120/120 [=====] - 25s 212ms/step - loss: 41.4706 - reconstruction_error: 24.9866 - regularization_error: 16.4840 - val_loss: 68.1566 - val_reconstruction_error: 53.3232 - val_regularization_error: 14.8334
Epoch 567/1000
120/120 [=====] - 22s 180ms/step - loss: 41.5062 - reconstruction_error: 24.9647 - regularization_error: 16.5415 - val_loss: 68.9452 - val_reconstruction_error: 54.3767 - val_regularization_error: 14.5685
Epoch 568/1000
120/120 [=====] - 22s 185ms/step - loss: 41.2854 - reconstruction_error: 24.8191 - regularization_error: 16.4663 - val_loss: 68.2426 - val_reconstruction_error: 53.6758 - val_regularization_error: 14.5669
Epoch 569/1000
120/120 [=====] - 21s 178ms/step - loss: 41.3071 - reconstruction_error: 24.9037 - regularization_error: 16.4034 - val_loss: 68.6069 - val_reconstruction_error: 54.8641 - val_regularization_error: 13.7429
Epoch 570/1000
120/120 [=====] - 23s 190ms/step - loss: 41.4340 - reconstruction_error: 24.9393 - regularization_error: 16.4947 - val_loss: 68.1666 - val_reconstruction_error: 54.0470 - val_regularization_error: 14.1196
Epoch 571/1000
120/120 [=====] - ETA: 0s - loss: 41.4313 - reconstruction_error: 24.9111 - regularization_error: 16.5202
[2023-12-02 01:22:32.801128]: Reconstructing images for epoch 571 ...
```



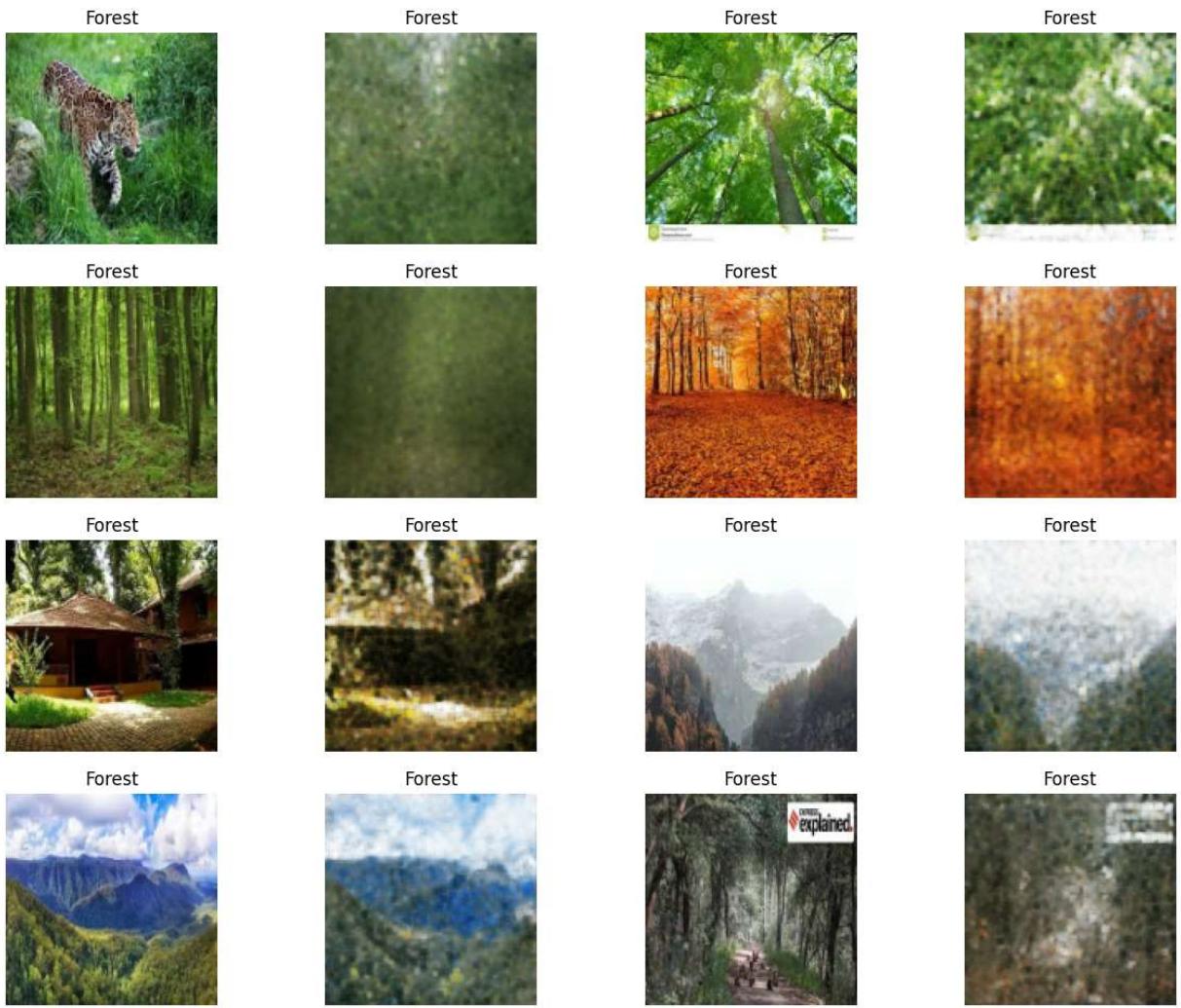
```
120/120 [=====] - 26s 212ms/step - loss: 41.4313 - reconstruction_error: 24.9111 - regularization_error: 16.5202 - val_loss: 69.5632 - val_reconstruction_error: 54.4621 - val_regularization_error: 15.1011
Epoch 572/1000
120/120 [=====] - 20s 167ms/step - loss: 41.4393 - reconstruction_error: 24.8425 - regularization_error: 16.5968 - val_loss: 70.3856 - val_reconstruction_error: 54.6887 - val_regularization_error: 15.6969
Epoch 573/1000
120/120 [=====] - 21s 176ms/step - loss: 41.2519 - reconstruction_error: 24.7032 - regularization_error: 16.5487 - val_loss: 68.9635 - val_reconstruction_error: 54.0080 - val_regularization_error: 14.9555
Epoch 574/1000
120/120 [=====] - 23s 189ms/step - loss: 41.3614 - reconstruction_error: 24.8501 - regularization_error: 16.5114 - val_loss: 69.3022 - val_reconstruction_error: 54.2870 - val_regularization_error: 15.0152
Epoch 575/1000
120/120 [=====] - 22s 185ms/step - loss: 41.5007 - reconstruction_error: 24.8339 - regularization_error: 16.6668 - val_loss: 68.8520 - val_reconstruction_error: 53.8908 - val_regularization_error: 14.9613
Epoch 576/1000
120/120 [=====] - 26s 214ms/step - loss: 41.4459 - reconstruction_error: 24.8347 - regularization_error: 16.6112 - val_loss: 68.3117 - val_reconstruction_error: 54.1904 - val_regularization_error: 14.1213
Epoch 577/1000
120/120 [=====] - 21s 172ms/step - loss: 41.4077 - reconstruction_error: 24.8722 - regularization_error: 16.5354 - val_loss: 70.0778 - val_reconstruction_error: 54.7416 - val_regularization_error: 15.3361
Epoch 578/1000
120/120 [=====] - 21s 175ms/step - loss: 41.3415 - reconstruction_error: 24.7536 - regularization_error: 16.5880 - val_loss: 68.8456 - val_reconstruction_error: 54.5477 - val_regularization_error: 14.2979
Epoch 579/1000
120/120 [=====] - 24s 200ms/step - loss: 41.3665 - reconstruction_error: 24.9146 - regularization_error: 16.4519 - val_loss: 70.0371 - val_reconstruction_error: 54.6429 - val_regularization_error: 15.3941
Epoch 580/1000
120/120 [=====] - 24s 193ms/step - loss: 41.6219 - reconstruction_error: 24.9208 - regularization_error: 16.7011 - val_loss: 69.0161 - val_reconstruction_error: 54.1773 - val_regularization_error: 14.8388
Epoch 581/1000
120/120 [=====] - ETA: 0s - loss: 41.3258 - reconstruction_error: 24.8176 - regularization_error: 16.5081
[2023-12-02 01:26:41.397611]: Reconstructing images for epoch 581 ...
```



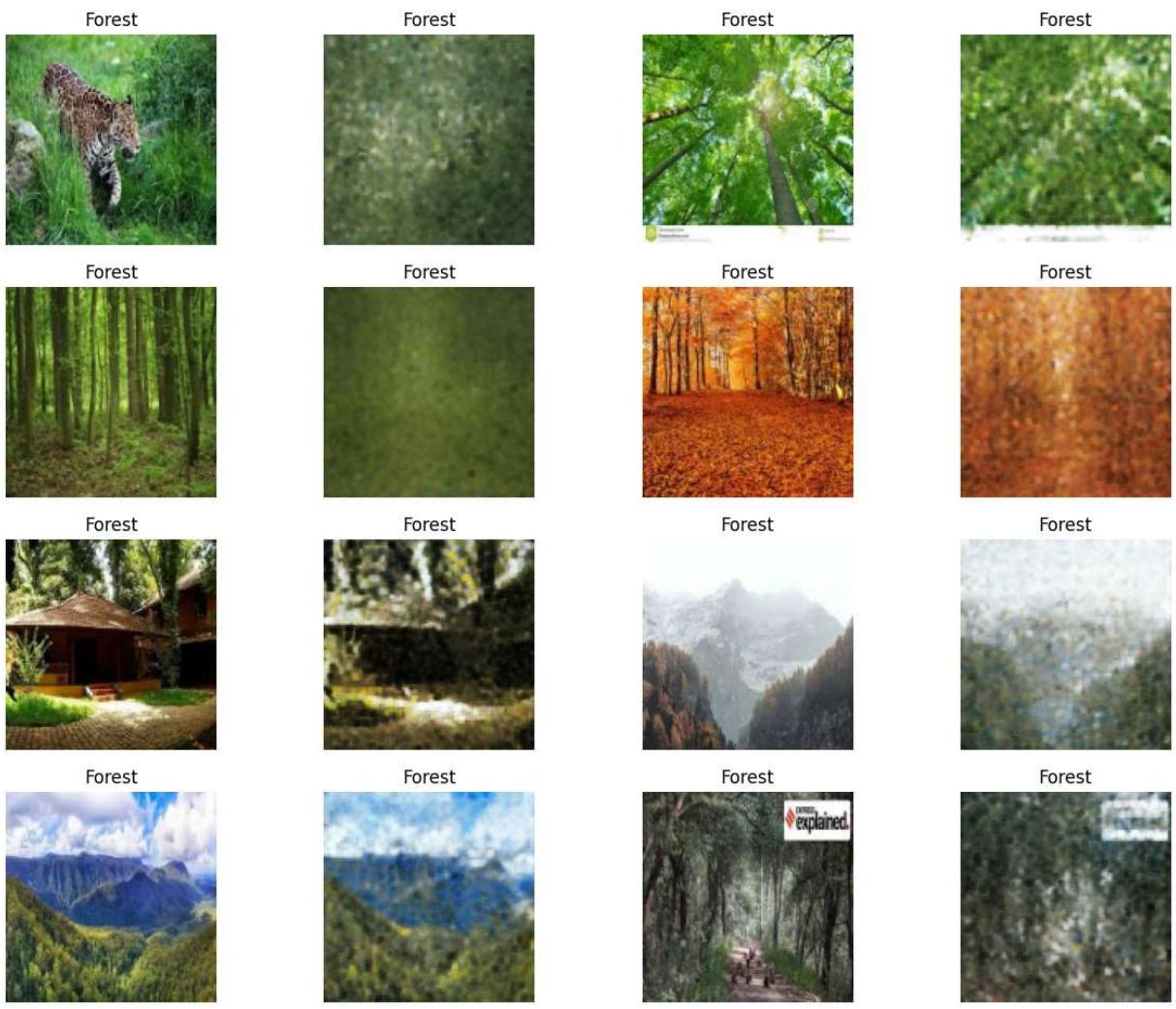
```
120/120 [=====] - 30s 249ms/step - loss: 41.3258 - reconstruction_error: 24.8176 - regularization_error: 16.5081 - val_loss: 68.8393 - val_reconstruction_error: 53.6856 - val_regularization_error: 15.1537
Epoch 582/1000
120/120 [=====] - 23s 190ms/step - loss: 41.5412 - reconstruction_error: 24.8802 - regularization_error: 16.6610 - val_loss: 68.6375 - val_reconstruction_error: 55.3042 - val_regularization_error: 13.3333
Epoch 583/1000
120/120 [=====] - 21s 175ms/step - loss: 41.5094 - reconstruction_error: 24.8132 - regularization_error: 16.6962 - val_loss: 68.2641 - val_reconstruction_error: 53.6631 - val_regularization_error: 14.6010
Epoch 584/1000
120/120 [=====] - 26s 214ms/step - loss: 41.2347 - reconstruction_error: 24.6276 - regularization_error: 16.6071 - val_loss: 69.1873 - val_reconstruction_error: 54.5277 - val_regularization_error: 14.6596
Epoch 585/1000
120/120 [=====] - 20s 165ms/step - loss: 41.2824 - reconstruction_error: 24.7706 - regularization_error: 16.5119 - val_loss: 69.2664 - val_reconstruction_error: 53.8928 - val_regularization_error: 15.3735
Epoch 586/1000
120/120 [=====] - 26s 211ms/step - loss: 41.3136 - reconstruction_error: 24.7182 - regularization_error: 16.5954 - val_loss: 67.7885 - val_reconstruction_error: 53.9405 - val_regularization_error: 13.8480
Epoch 587/1000
120/120 [=====] - 22s 178ms/step - loss: 41.3585 - reconstruction_error: 24.7616 - regularization_error: 16.5969 - val_loss: 69.3150 - val_reconstruction_error: 54.7243 - val_regularization_error: 14.5907
Epoch 588/1000
120/120 [=====] - 24s 198ms/step - loss: 41.0350 - reconstruction_error: 24.5849 - regularization_error: 16.4501 - val_loss: 69.2224 - val_reconstruction_error: 54.9847 - val_regularization_error: 14.2377
Epoch 589/1000
120/120 [=====] - 22s 187ms/step - loss: 41.1961 - reconstruction_error: 24.6518 - regularization_error: 16.5443 - val_loss: 69.1411 - val_reconstruction_error: 54.4640 - val_regularization_error: 14.6771
Epoch 590/1000
120/120 [=====] - 21s 171ms/step - loss: 41.1735 - reconstruction_error: 24.6183 - regularization_error: 16.5552 - val_loss: 68.6085 - val_reconstruction_error: 54.0121 - val_regularization_error: 14.5964
Epoch 591/1000
120/120 [=====] - ETA: 0s - loss: 41.2951 - reconstruction_error: 24.6998 - regularization_error: 16.5953
[2023-12-02 01:30:30.794924]: Reconstructing images for epoch 591 ...
```



```
120/120 [=====] - 24s 198ms/step - loss: 41.2951 - reconstruction_error: 24.6998 - regularization_error: 16.5953 - val_loss: 69.1661 - val_reconstruction_error: 53.9672 - val_regularization_error: 15.1989
Epoch 592/1000
120/120 [=====] - 23s 192ms/step - loss: 41.1398 - reconstruction_error: 24.6179 - regularization_error: 16.5219 - val_loss: 69.1921 - val_reconstruction_error: 53.4170 - val_regularization_error: 15.7750
Epoch 593/1000
120/120 [=====] - 23s 191ms/step - loss: 41.2134 - reconstruction_error: 24.6317 - regularization_error: 16.5817 - val_loss: 68.6191 - val_reconstruction_error: 53.7235 - val_regularization_error: 14.8956
Epoch 594/1000
120/120 [=====] - 25s 205ms/step - loss: 41.4753 - reconstruction_error: 24.7415 - regularization_error: 16.7338 - val_loss: 68.6475 - val_reconstruction_error: 54.0089 - val_regularization_error: 14.6386
Epoch 595/1000
120/120 [=====] - 22s 182ms/step - loss: 41.3300 - reconstruction_error: 24.6546 - regularization_error: 16.6754 - val_loss: 68.0070 - val_reconstruction_error: 54.5571 - val_regularization_error: 13.4499
Epoch 596/1000
120/120 [=====] - 21s 177ms/step - loss: 41.2407 - reconstruction_error: 24.6238 - regularization_error: 16.6169 - val_loss: 68.6718 - val_reconstruction_error: 54.3902 - val_regularization_error: 14.2816
Epoch 597/1000
120/120 [=====] - 19s 155ms/step - loss: 41.2514 - reconstruction_error: 24.6307 - regularization_error: 16.6207 - val_loss: 69.6761 - val_reconstruction_error: 54.6275 - val_regularization_error: 15.0487
Epoch 598/1000
120/120 [=====] - 23s 191ms/step - loss: 41.0312 - reconstruction_error: 24.4976 - regularization_error: 16.5336 - val_loss: 70.1465 - val_reconstruction_error: 54.8992 - val_regularization_error: 15.2472
Epoch 599/1000
120/120 [=====] - 22s 182ms/step - loss: 41.0965 - reconstruction_error: 24.6806 - regularization_error: 16.4160 - val_loss: 68.2134 - val_reconstruction_error: 54.0622 - val_regularization_error: 14.1512
Epoch 600/1000
120/120 [=====] - 23s 192ms/step - loss: 41.0454 - reconstruction_error: 24.5302 - regularization_error: 16.5152 - val_loss: 69.3669 - val_reconstruction_error: 54.8916 - val_regularization_error: 14.4753
Epoch 601/1000
120/120 [=====] - ETA: 0s - loss: 41.2582 - reconstruction_error: 24.6046 - regularization_error: 16.6535
[2023-12-02 01:34:17.480500]: Reconstructing images for epoch 601 ...
```



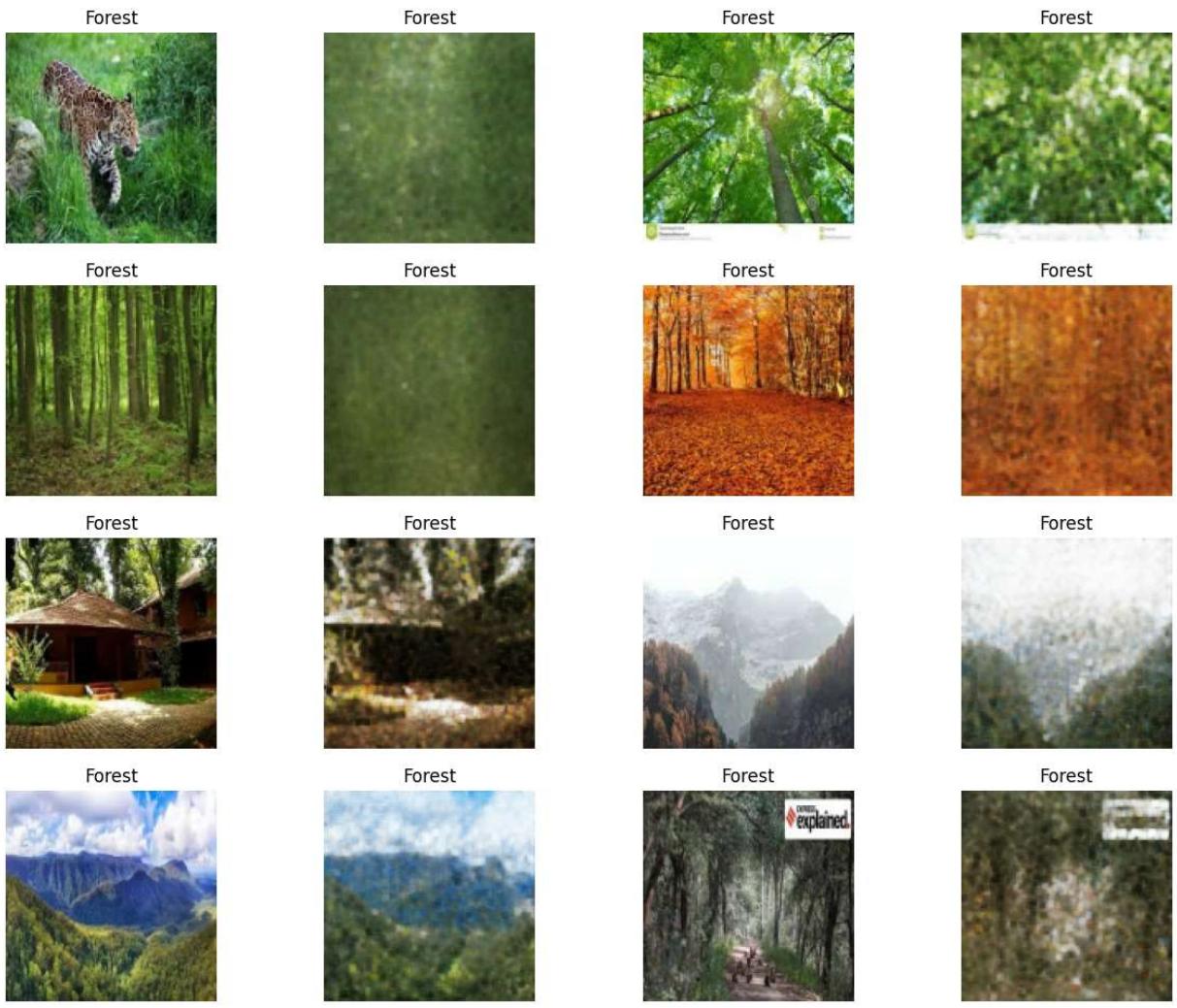
```
120/120 [=====] - 24s 199ms/step - loss: 41.2582 - reconstruction_error: 24.6046 - regularization_error: 16.6535 - val_loss: 68.8216 - val_reconstruction_error: 53.9845 - val_regularization_error: 14.8371
Epoch 602/1000
120/120 [=====] - 23s 195ms/step - loss: 41.1788 - reconstruction_error: 24.5311 - regularization_error: 16.6477 - val_loss: 68.0058 - val_reconstruction_error: 53.6098 - val_regularization_error: 14.3960
Epoch 603/1000
120/120 [=====] - 19s 158ms/step - loss: 40.9728 - reconstruction_error: 24.4302 - regularization_error: 16.5426 - val_loss: 69.6512 - val_reconstruction_error: 54.6626 - val_regularization_error: 14.9886
Epoch 604/1000
120/120 [=====] - 24s 194ms/step - loss: 41.2626 - reconstruction_error: 24.5096 - regularization_error: 16.7530 - val_loss: 69.0916 - val_reconstruction_error: 54.2640 - val_regularization_error: 14.8276
Epoch 605/1000
120/120 [=====] - 22s 186ms/step - loss: 40.9008 - reconstruction_error: 24.3447 - regularization_error: 16.5562 - val_loss: 69.4811 - val_reconstruction_error: 55.1909 - val_regularization_error: 14.2901
Epoch 606/1000
120/120 [=====] - 22s 183ms/step - loss: 41.0782 - reconstruction_error: 24.4694 - regularization_error: 16.6088 - val_loss: 70.0648 - val_reconstruction_error: 54.4300 - val_regularization_error: 15.6348
Epoch 607/1000
120/120 [=====] - 23s 191ms/step - loss: 41.0891 - reconstruction_error: 24.4352 - regularization_error: 16.6539 - val_loss: 68.4175 - val_reconstruction_error: 54.3615 - val_regularization_error: 14.0561
Epoch 608/1000
120/120 [=====] - 21s 175ms/step - loss: 40.8943 - reconstruction_error: 24.4141 - regularization_error: 16.4802 - val_loss: 69.3736 - val_reconstruction_error: 53.9340 - val_regularization_error: 15.4396
Epoch 609/1000
120/120 [=====] - 22s 182ms/step - loss: 41.0595 - reconstruction_error: 24.4277 - regularization_error: 16.6318 - val_loss: 69.8791 - val_reconstruction_error: 54.2667 - val_regularization_error: 15.6124
Epoch 610/1000
120/120 [=====] - 21s 173ms/step - loss: 40.9905 - reconstruction_error: 24.3689 - regularization_error: 16.6216 - val_loss: 68.6182 - val_reconstruction_error: 54.9778 - val_regularization_error: 13.6404
Epoch 611/1000
120/120 [=====] - ETA: 0s - loss: 40.8697 - reconstruction_error: 24.2933 - regularization_error: 16.5764
[2023-12-02 01:37:58.979620]: Reconstructing images for epoch 611 ...
```



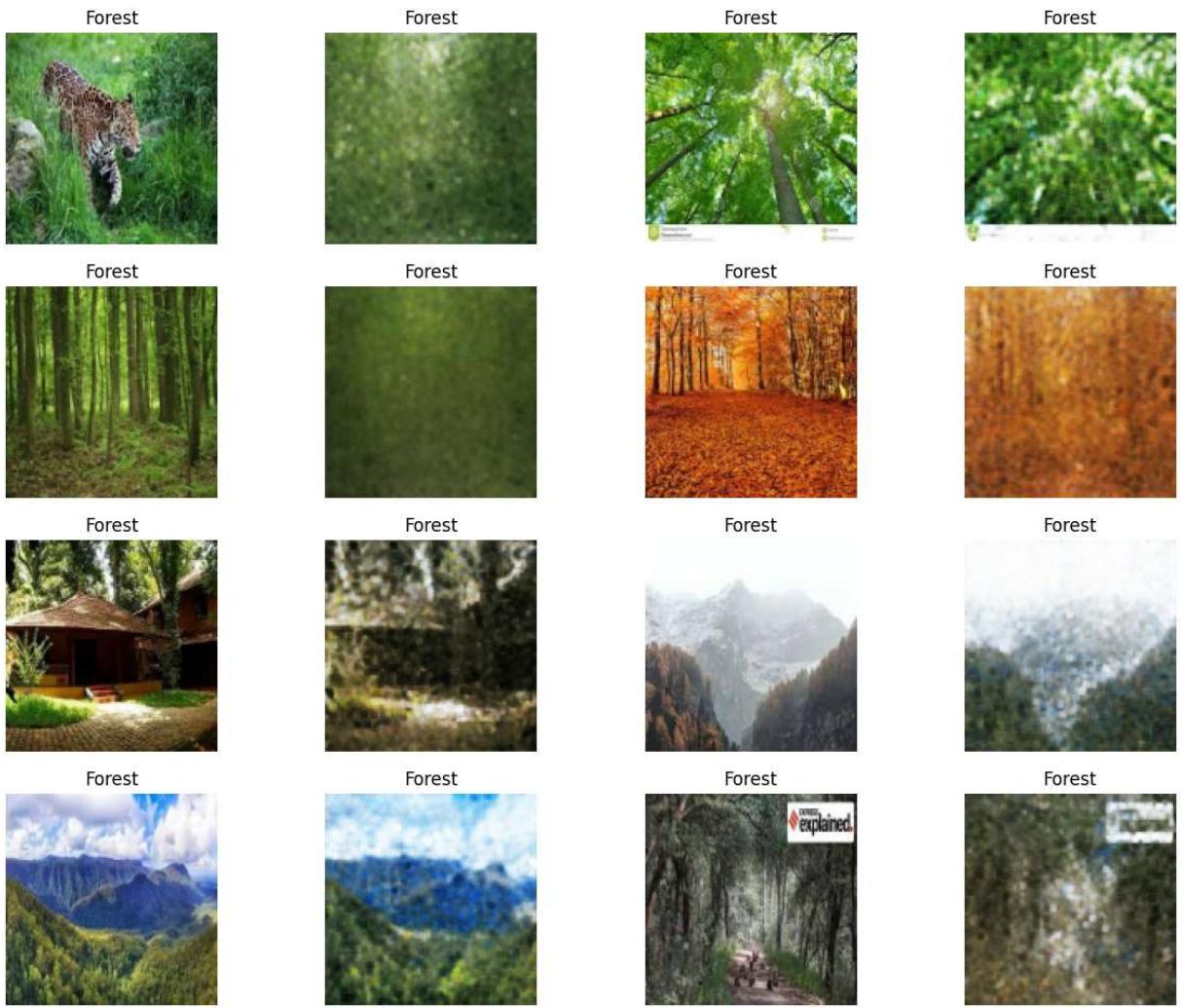
```
120/120 [=====] - 23s 193ms/step - loss: 40.8697 - reconstruction_error: 24.2933 - regularization_error: 16.5764 - val_loss: 68.6031 - val_reconstruction_error: 54.2274 - val_regularization_error: 14.3758
Epoch 612/1000
120/120 [=====] - 24s 201ms/step - loss: 40.6802 - reconstruction_error: 24.1985 - regularization_error: 16.4817 - val_loss: 68.3300 - val_reconstruction_error: 54.5062 - val_regularization_error: 13.8238
Epoch 613/1000
120/120 [=====] - 22s 182ms/step - loss: 40.9054 - reconstruction_error: 24.3712 - regularization_error: 16.5342 - val_loss: 69.2632 - val_reconstruction_error: 54.7818 - val_regularization_error: 14.4814
Epoch 614/1000
120/120 [=====] - 24s 202ms/step - loss: 41.0284 - reconstruction_error: 24.3151 - regularization_error: 16.7133 - val_loss: 68.8246 - val_reconstruction_error: 54.3532 - val_regularization_error: 14.4714
Epoch 615/1000
120/120 [=====] - 25s 207ms/step - loss: 41.0012 - reconstruction_error: 24.3722 - regularization_error: 16.6291 - val_loss: 67.8717 - val_reconstruction_error: 53.4398 - val_regularization_error: 14.4318
Epoch 616/1000
120/120 [=====] - 23s 193ms/step - loss: 40.8927 - reconstruction_error: 24.2665 - regularization_error: 16.6262 - val_loss: 69.3402 - val_reconstruction_error: 54.9041 - val_regularization_error: 14.4361
Epoch 617/1000
120/120 [=====] - 21s 176ms/step - loss: 40.6378 - reconstruction_error: 24.2125 - regularization_error: 16.4253 - val_loss: 68.8891 - val_reconstruction_error: 54.0588 - val_regularization_error: 14.8303
Epoch 618/1000
120/120 [=====] - 21s 172ms/step - loss: 41.0270 - reconstruction_error: 24.3779 - regularization_error: 16.6491 - val_loss: 69.4280 - val_reconstruction_error: 54.0945 - val_regularization_error: 15.3335
Epoch 619/1000
120/120 [=====] - 22s 186ms/step - loss: 41.2498 - reconstruction_error: 24.5573 - regularization_error: 16.6924 - val_loss: 68.2796 - val_reconstruction_error: 53.9900 - val_regularization_error: 14.2896
Epoch 620/1000
120/120 [=====] - 21s 177ms/step - loss: 40.9329 - reconstruction_error: 24.3853 - regularization_error: 16.5476 - val_loss: 70.1831 - val_reconstruction_error: 54.5637 - val_regularization_error: 15.6193
Epoch 621/1000
120/120 [=====] - ETA: 0s - loss: 41.0311 - reconstruction_error: 24.3406 - regularization_error: 16.6905
[2023-12-02 01:41:53.239215]: Reconstructing images for epoch 621 ...
```



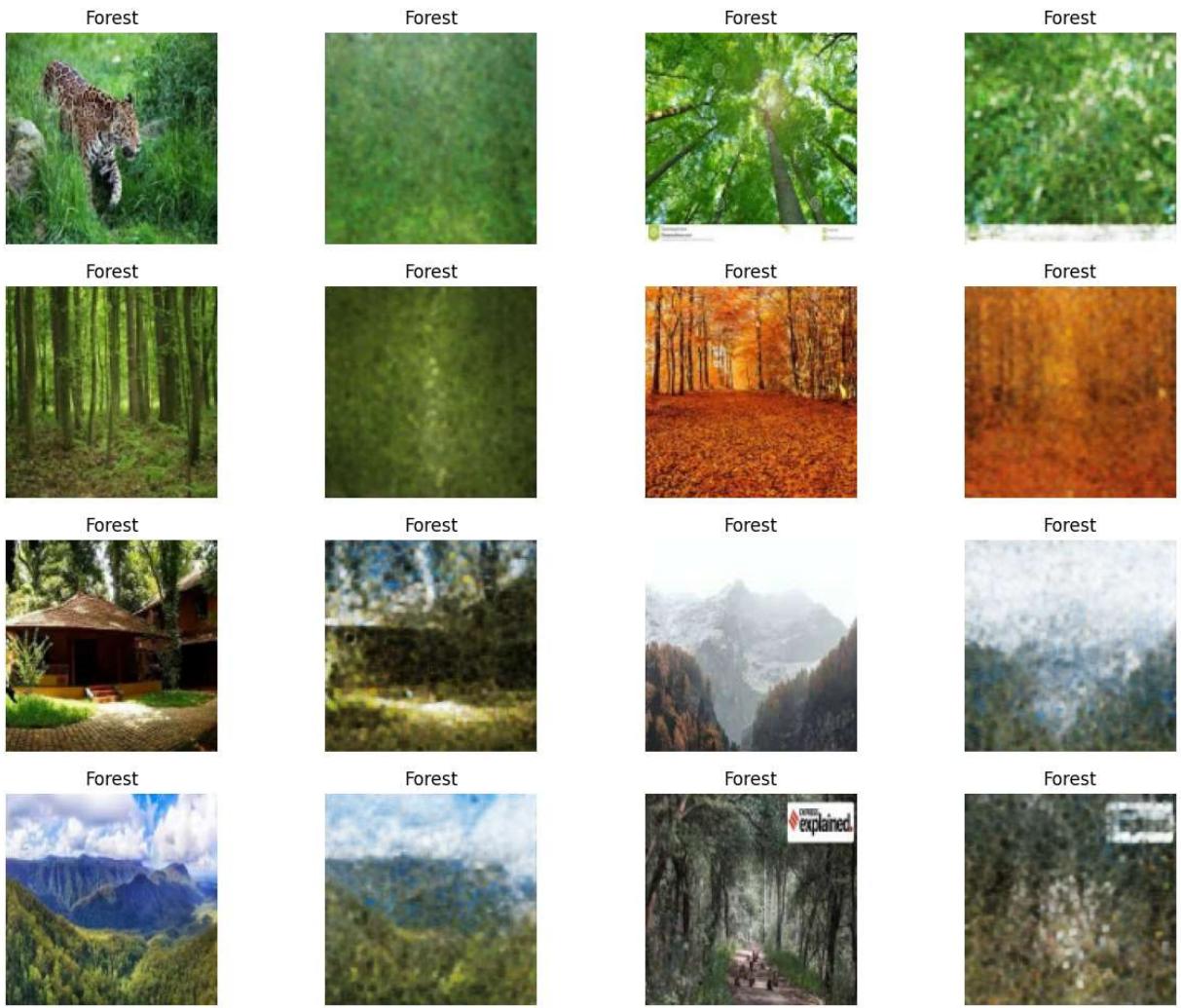
```
120/120 [=====] - 28s 233ms/step - loss: 41.0311 - reconstruction_error: 24.3406 - regularization_error: 16.6905 - val_loss: 69.9767 - val_reconstruction_error: 54.1900 - val_regularization_error: 15.7868
Epoch 622/1000
120/120 [=====] - 23s 191ms/step - loss: 40.9126 - reconstruction_error: 24.2158 - regularization_error: 16.6968 - val_loss: 69.5312 - val_reconstruction_error: 54.6612 - val_regularization_error: 14.8700
Epoch 623/1000
120/120 [=====] - 21s 173ms/step - loss: 41.0329 - reconstruction_error: 24.3587 - regularization_error: 16.6742 - val_loss: 69.1924 - val_reconstruction_error: 54.1759 - val_regularization_error: 15.0166
Epoch 624/1000
120/120 [=====] - 21s 174ms/step - loss: 40.7664 - reconstruction_error: 24.2308 - regularization_error: 16.5357 - val_loss: 69.6922 - val_reconstruction_error: 54.8714 - val_regularization_error: 14.8209
Epoch 625/1000
120/120 [=====] - 22s 185ms/step - loss: 40.7101 - reconstruction_error: 24.1547 - regularization_error: 16.5554 - val_loss: 68.5617 - val_reconstruction_error: 53.6738 - val_regularization_error: 14.8879
Epoch 626/1000
120/120 [=====] - 19s 155ms/step - loss: 40.7624 - reconstruction_error: 24.1990 - regularization_error: 16.5634 - val_loss: 68.8688 - val_reconstruction_error: 54.5997 - val_regularization_error: 14.2691
Epoch 627/1000
120/120 [=====] - 24s 203ms/step - loss: 40.8701 - reconstruction_error: 24.1900 - regularization_error: 16.6800 - val_loss: 69.6602 - val_reconstruction_error: 54.6473 - val_regularization_error: 15.0128
Epoch 628/1000
120/120 [=====] - 22s 179ms/step - loss: 40.7287 - reconstruction_error: 24.0755 - regularization_error: 16.6532 - val_loss: 69.0924 - val_reconstruction_error: 54.0509 - val_regularization_error: 15.0415
Epoch 629/1000
120/120 [=====] - 27s 228ms/step - loss: 40.6882 - reconstruction_error: 24.1311 - regularization_error: 16.5570 - val_loss: 70.1430 - val_reconstruction_error: 54.8971 - val_regularization_error: 15.2459
Epoch 630/1000
120/120 [=====] - 25s 208ms/step - loss: 40.8998 - reconstruction_error: 24.2367 - regularization_error: 16.6631 - val_loss: 69.6744 - val_reconstruction_error: 54.5569 - val_regularization_error: 15.1175
Epoch 631/1000
120/120 [=====] - ETA: 0s - loss: 40.8328 - reconstruction_error: 24.1280 - regularization_error: 16.7049
[2023-12-02 01:45:45.459914]: Reconstructing images for epoch 631 ...
```



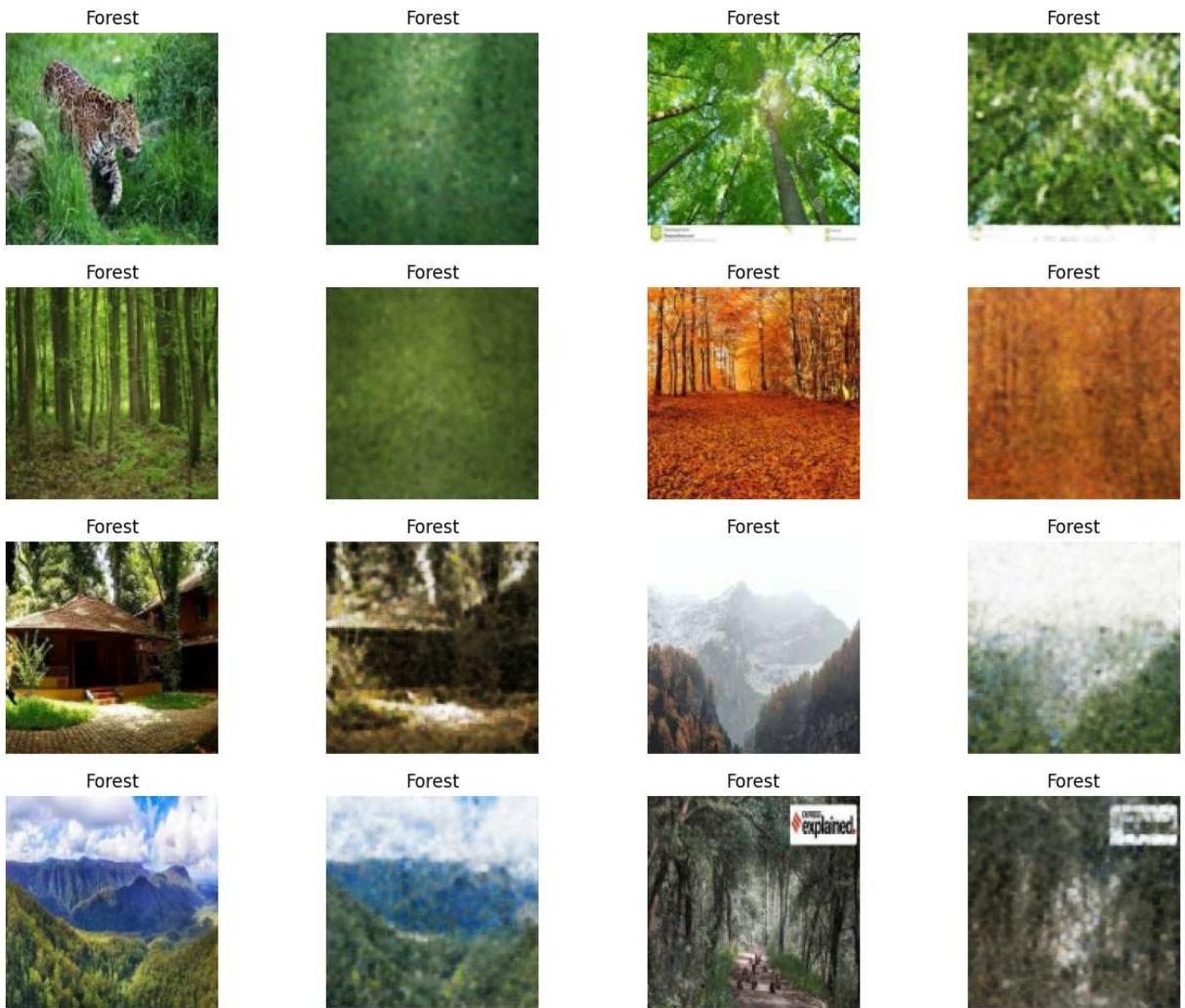
```
120/120 [=====] - 26s 213ms/step - loss: 40.8328 - reconstruction_error: 24.1280 - regularization_error: 16.7049 - val_loss: 68.7570 - val_reconstruction_error: 53.6520 - val_regularization_error: 15.1051
Epoch 632/1000
120/120 [=====] - 22s 180ms/step - loss: 40.7359 - reconstruction_error: 24.1111 - regularization_error: 16.6248 - val_loss: 70.3421 - val_reconstruction_error: 55.5024 - val_regularization_error: 14.8397
Epoch 633/1000
120/120 [=====] - 24s 200ms/step - loss: 40.8471 - reconstruction_error: 24.1869 - regularization_error: 16.6602 - val_loss: 68.8350 - val_reconstruction_error: 54.0661 - val_regularization_error: 14.7689
Epoch 634/1000
120/120 [=====] - 22s 180ms/step - loss: 40.5760 - reconstruction_error: 23.9848 - regularization_error: 16.5911 - val_loss: 68.4978 - val_reconstruction_error: 53.7604 - val_regularization_error: 14.7374
Epoch 635/1000
120/120 [=====] - 21s 175ms/step - loss: 40.7072 - reconstruction_error: 24.1195 - regularization_error: 16.5877 - val_loss: 69.7903 - val_reconstruction_error: 53.7114 - val_regularization_error: 16.0788
Epoch 636/1000
120/120 [=====] - 22s 186ms/step - loss: 40.8313 - reconstruction_error: 24.1031 - regularization_error: 16.7283 - val_loss: 68.6375 - val_reconstruction_error: 54.0493 - val_regularization_error: 14.5882
Epoch 637/1000
120/120 [=====] - 24s 196ms/step - loss: 40.6601 - reconstruction_error: 24.0928 - regularization_error: 16.5674 - val_loss: 69.6493 - val_reconstruction_error: 55.0518 - val_regularization_error: 14.5975
Epoch 638/1000
120/120 [=====] - 22s 182ms/step - loss: 40.6546 - reconstruction_error: 23.9650 - regularization_error: 16.6896 - val_loss: 68.1424 - val_reconstruction_error: 54.2970 - val_regularization_error: 13.8454
Epoch 639/1000
120/120 [=====] - 25s 206ms/step - loss: 40.5711 - reconstruction_error: 23.9921 - regularization_error: 16.5790 - val_loss: 68.8407 - val_reconstruction_error: 54.5856 - val_regularization_error: 14.2551
Epoch 640/1000
120/120 [=====] - 22s 185ms/step - loss: 40.6134 - reconstruction_error: 24.0780 - regularization_error: 16.5353 - val_loss: 69.4803 - val_reconstruction_error: 53.8323 - val_regularization_error: 15.6480
Epoch 641/1000
120/120 [=====] - ETA: 0s - loss: 40.7183 - reconstruction_error: 24.1040 - regularization_error: 16.6142
[2023-12-02 01:49:33.057753]: Reconstructing images for epoch 641 ...
```



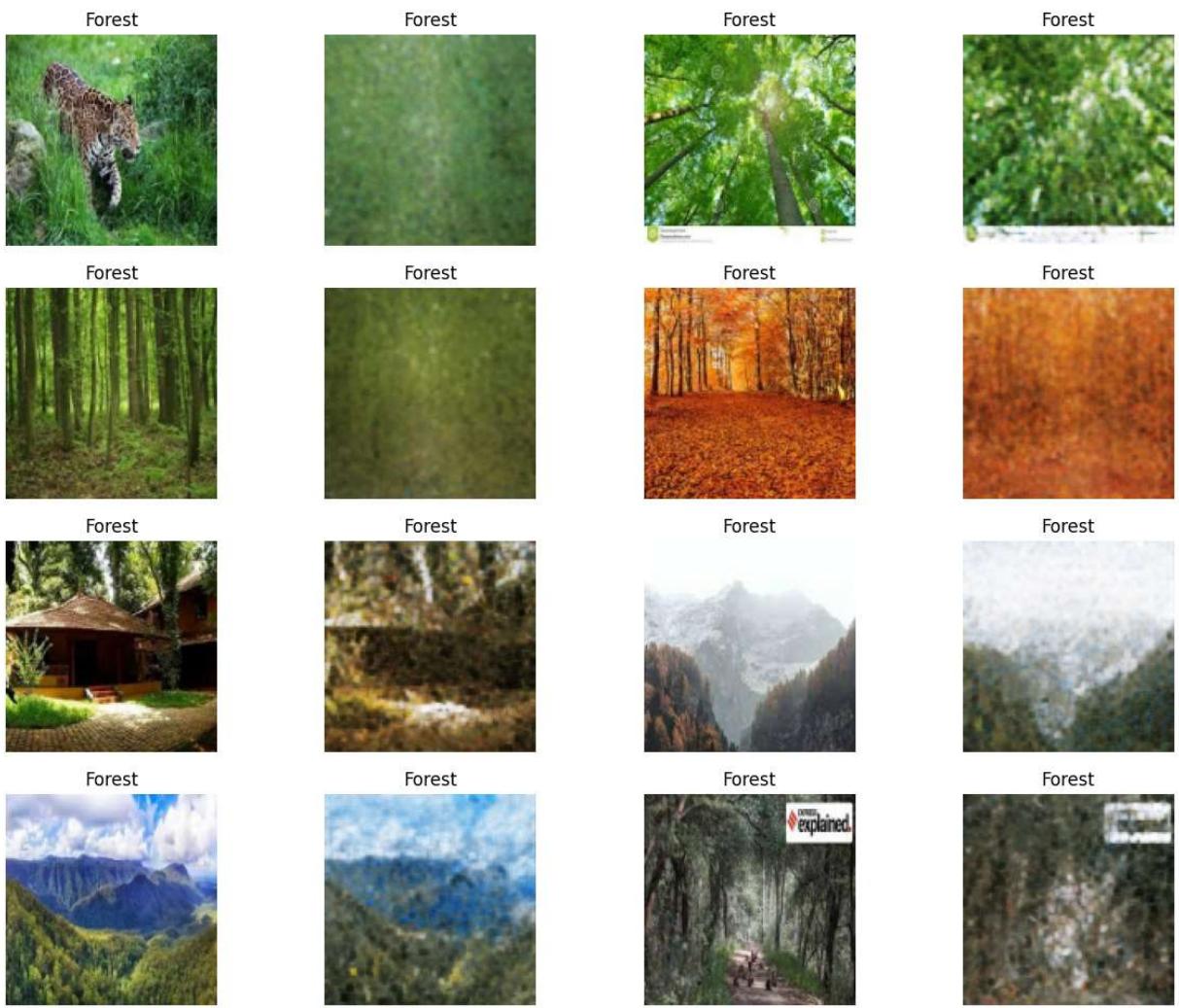
```
120/120 [=====] - 22s 183ms/step - loss: 40.7183 - reconstruction_error: 24.1040 - regularization_error: 16.6142 - val_loss: 70.3406 - val_reconstruction_error: 54.7459 - val_regularization_error: 15.5947
Epoch 642/1000
120/120 [=====] - 23s 191ms/step - loss: 40.6571 - reconstruction_error: 23.9825 - regularization_error: 16.6746 - val_loss: 68.5656 - val_reconstruction_error: 54.2084 - val_regularization_error: 14.3572
Epoch 643/1000
120/120 [=====] - 23s 188ms/step - loss: 40.7166 - reconstruction_error: 24.0620 - regularization_error: 16.6547 - val_loss: 69.0682 - val_reconstruction_error: 53.9710 - val_regularization_error: 15.0972
Epoch 644/1000
120/120 [=====] - 22s 186ms/step - loss: 40.7224 - reconstruction_error: 24.0564 - regularization_error: 16.6659 - val_loss: 69.2614 - val_reconstruction_error: 54.1262 - val_regularization_error: 15.1352
Epoch 645/1000
120/120 [=====] - 24s 203ms/step - loss: 40.5720 - reconstruction_error: 23.9389 - regularization_error: 16.6331 - val_loss: 69.7020 - val_reconstruction_error: 54.5729 - val_regularization_error: 15.1291
Epoch 646/1000
120/120 [=====] - 23s 188ms/step - loss: 40.5058 - reconstruction_error: 23.9343 - regularization_error: 16.5714 - val_loss: 69.1908 - val_reconstruction_error: 54.3399 - val_regularization_error: 14.8510
Epoch 647/1000
120/120 [=====] - 27s 226ms/step - loss: 40.5649 - reconstruction_error: 23.8890 - regularization_error: 16.6759 - val_loss: 68.0752 - val_reconstruction_error: 53.6505 - val_regularization_error: 14.4247
Epoch 648/1000
120/120 [=====] - 27s 224ms/step - loss: 40.8130 - reconstruction_error: 24.1665 - regularization_error: 16.6466 - val_loss: 69.3386 - val_reconstruction_error: 54.7828 - val_regularization_error: 14.5558
Epoch 649/1000
120/120 [=====] - 24s 196ms/step - loss: 40.5731 - reconstruction_error: 23.8902 - regularization_error: 16.6830 - val_loss: 69.1004 - val_reconstruction_error: 54.4930 - val_regularization_error: 14.6074
Epoch 650/1000
120/120 [=====] - 24s 202ms/step - loss: 40.4210 - reconstruction_error: 23.9088 - regularization_error: 16.5122 - val_loss: 69.5481 - val_reconstruction_error: 54.3202 - val_regularization_error: 15.2279
Epoch 651/1000
120/120 [=====] - ETA: 0s - loss: 40.4121 - reconstruction_error: 23.8643 - regularization_error: 16.5477
[2023-12-02 01:53:37.111441]: Reconstructing images for epoch 651 ...
```



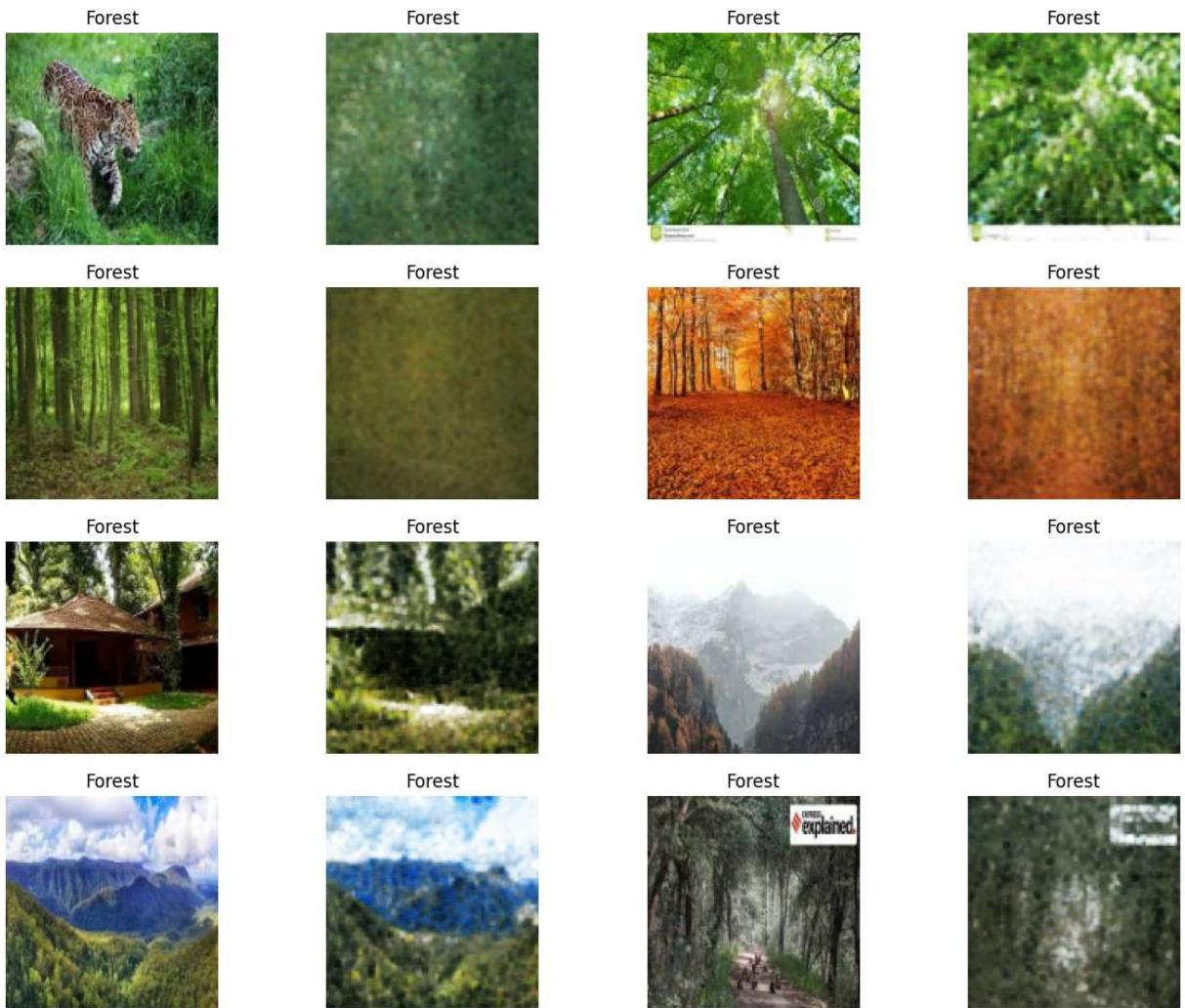
```
120/120 [=====] - 26s 213ms/step - loss: 40.4121 - reconstruction_error: 23.8643 - regularization_error: 16.5477 - val_loss: 68.9049 - val_reconstruction_error: 55.2646 - val_regularization_error: 13.6403
Epoch 652/1000
120/120 [=====] - 25s 212ms/step - loss: 40.6714 - reconstruction_error: 23.9842 - regularization_error: 16.6871 - val_loss: 69.6327 - val_reconstruction_error: 54.3024 - val_regularization_error: 15.3303
Epoch 653/1000
120/120 [=====] - 24s 197ms/step - loss: 40.5034 - reconstruction_error: 23.8485 - regularization_error: 16.6549 - val_loss: 69.7422 - val_reconstruction_error: 54.8501 - val_regularization_error: 14.8921
Epoch 654/1000
120/120 [=====] - 24s 198ms/step - loss: 40.7048 - reconstruction_error: 23.9969 - regularization_error: 16.7079 - val_loss: 69.5516 - val_reconstruction_error: 55.3949 - val_regularization_error: 14.1567
Epoch 655/1000
120/120 [=====] - 22s 186ms/step - loss: 40.4043 - reconstruction_error: 23.8893 - regularization_error: 16.5150 - val_loss: 69.3035 - val_reconstruction_error: 54.0586 - val_regularization_error: 15.2449
Epoch 656/1000
120/120 [=====] - 22s 180ms/step - loss: 40.5761 - reconstruction_error: 23.9865 - regularization_error: 16.5896 - val_loss: 70.7366 - val_reconstruction_error: 55.1292 - val_regularization_error: 15.6073
Epoch 657/1000
120/120 [=====] - 22s 181ms/step - loss: 40.8561 - reconstruction_error: 24.0584 - regularization_error: 16.7978 - val_loss: 69.4287 - val_reconstruction_error: 55.2254 - val_regularization_error: 14.2033
Epoch 658/1000
120/120 [=====] - 21s 175ms/step - loss: 40.5945 - reconstruction_error: 23.7894 - regularization_error: 16.8051 - val_loss: 70.8244 - val_reconstruction_error: 55.5585 - val_regularization_error: 15.2659
Epoch 659/1000
120/120 [=====] - 21s 170ms/step - loss: 40.6259 - reconstruction_error: 23.9674 - regularization_error: 16.6585 - val_loss: 68.9458 - val_reconstruction_error: 54.2582 - val_regularization_error: 14.6876
Epoch 660/1000
120/120 [=====] - 21s 177ms/step - loss: 40.2416 - reconstruction_error: 23.6331 - regularization_error: 16.6086 - val_loss: 69.6145 - val_reconstruction_error: 54.9195 - val_regularization_error: 14.6950
Epoch 661/1000
120/120 [=====] - ETA: 0s - loss: 40.5176 - reconstruction_error: 23.9818 - regularization_error: 16.5358
[2023-12-02 01:57:24.891439]: Reconstructing images for epoch 661 ...
```



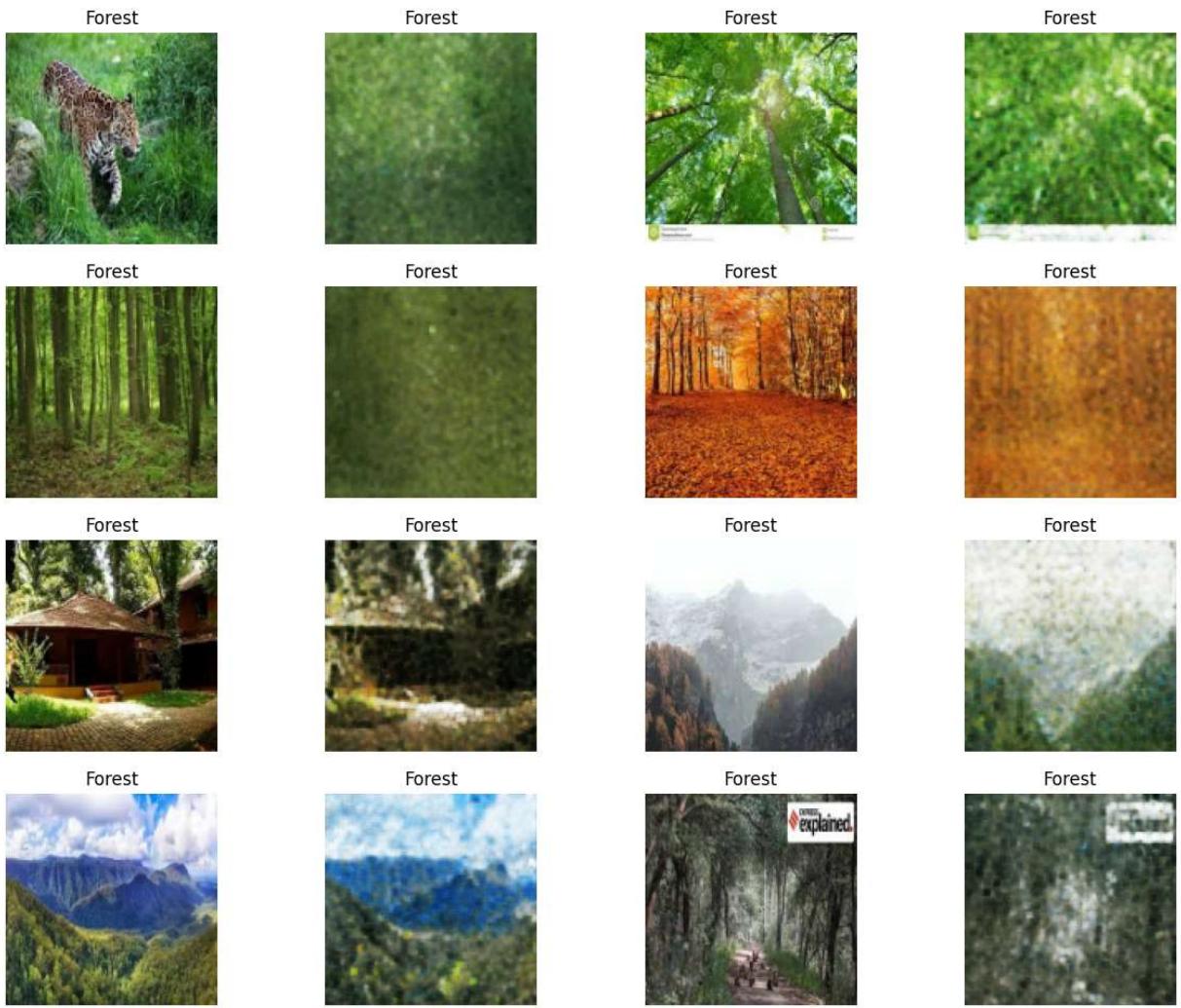
```
120/120 [=====] - 23s 191ms/step - loss: 40.5176 - reconstruction_error: 23.9818 - regularization_error: 16.5358 - val_loss: 69.3489 - val_reconstruction_error: 54.3320 - val_regularization_error: 15.0169
Epoch 662/1000
120/120 [=====] - 24s 203ms/step - loss: 40.5188 - reconstruction_error: 23.8005 - regularization_error: 16.7183 - val_loss: 69.7796 - val_reconstruction_error: 55.1732 - val_regularization_error: 14.6065
Epoch 663/1000
120/120 [=====] - 22s 184ms/step - loss: 40.3587 - reconstruction_error: 23.7770 - regularization_error: 16.5817 - val_loss: 69.0499 - val_reconstruction_error: 54.1727 - val_regularization_error: 14.8772
Epoch 664/1000
120/120 [=====] - 21s 172ms/step - loss: 40.4662 - reconstruction_error: 23.8189 - regularization_error: 16.6473 - val_loss: 69.0774 - val_reconstruction_error: 53.9998 - val_regularization_error: 15.0777
Epoch 665/1000
120/120 [=====] - 21s 173ms/step - loss: 40.4434 - reconstruction_error: 23.7702 - regularization_error: 16.6732 - val_loss: 70.2483 - val_reconstruction_error: 54.4495 - val_regularization_error: 15.7988
Epoch 666/1000
120/120 [=====] - 20s 164ms/step - loss: 40.4897 - reconstruction_error: 23.7744 - regularization_error: 16.7152 - val_loss: 68.1091 - val_reconstruction_error: 53.8593 - val_regularization_error: 14.2498
Epoch 667/1000
120/120 [=====] - 20s 168ms/step - loss: 40.2818 - reconstruction_error: 23.7269 - regularization_error: 16.5548 - val_loss: 69.9005 - val_reconstruction_error: 54.4774 - val_regularization_error: 15.4231
Epoch 668/1000
120/120 [=====] - 24s 197ms/step - loss: 40.2835 - reconstruction_error: 23.6321 - regularization_error: 16.6514 - val_loss: 68.7003 - val_reconstruction_error: 54.6296 - val_regularization_error: 14.0707
Epoch 669/1000
120/120 [=====] - 25s 207ms/step - loss: 40.4557 - reconstruction_error: 23.7585 - regularization_error: 16.6972 - val_loss: 70.6357 - val_reconstruction_error: 54.5429 - val_regularization_error: 16.0928
Epoch 670/1000
120/120 [=====] - 23s 194ms/step - loss: 40.5995 - reconstruction_error: 23.9095 - regularization_error: 16.6899 - val_loss: 69.8518 - val_reconstruction_error: 55.0955 - val_regularization_error: 14.7562
Epoch 671/1000
120/120 [=====] - ETA: 0s - loss: 40.4784 - reconstruction_error: 23.8228 - regularization_error: 16.6556
[2023-12-02 02:01:14.442006]: Reconstructing images for epoch 671 ...
```



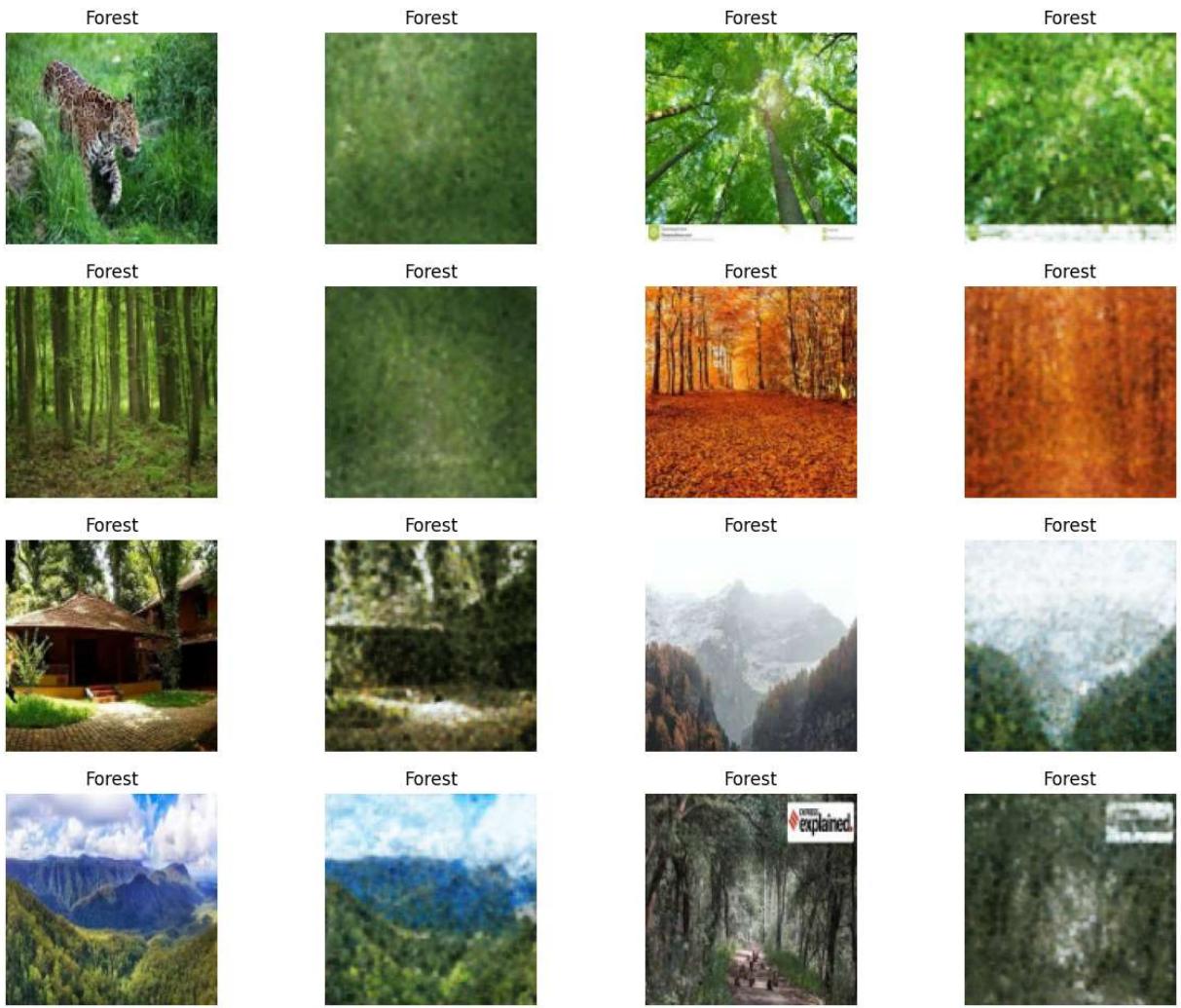
```
120/120 [=====] - 27s 222ms/step - loss: 40.4784 - reconstruction_error: 23.8228 - regularization_error: 16.6556 - val_loss: 68.9268 - val_reconstruction_error: 54.0100 - val_regularization_error: 14.9167
Epoch 672/1000
120/120 [=====] - 22s 185ms/step - loss: 40.3328 - reconstruction_error: 23.7060 - regularization_error: 16.6268 - val_loss: 68.9868 - val_reconstruction_error: 54.4865 - val_regularization_error: 14.5003
Epoch 673/1000
120/120 [=====] - 24s 201ms/step - loss: 40.1900 - reconstruction_error: 23.5924 - regularization_error: 16.5976 - val_loss: 69.7651 - val_reconstruction_error: 54.3715 - val_regularization_error: 15.3937
Epoch 674/1000
120/120 [=====] - 24s 196ms/step - loss: 40.4353 - reconstruction_error: 23.6553 - regularization_error: 16.7800 - val_loss: 69.1018 - val_reconstruction_error: 54.4356 - val_regularization_error: 14.6663
Epoch 675/1000
120/120 [=====] - 29s 237ms/step - loss: 40.3218 - reconstruction_error: 23.6723 - regularization_error: 16.6495 - val_loss: 69.6382 - val_reconstruction_error: 55.4332 - val_regularization_error: 14.2049
Epoch 676/1000
120/120 [=====] - 20s 168ms/step - loss: 40.4593 - reconstruction_error: 23.8399 - regularization_error: 16.6193 - val_loss: 68.9268 - val_reconstruction_error: 54.3446 - val_regularization_error: 14.5821
Epoch 677/1000
120/120 [=====] - 19s 154ms/step - loss: 40.2629 - reconstruction_error: 23.6473 - regularization_error: 16.6155 - val_loss: 70.5603 - val_reconstruction_error: 55.3328 - val_regularization_error: 15.2275
Epoch 678/1000
120/120 [=====] - 21s 171ms/step - loss: 40.4739 - reconstruction_error: 23.7397 - regularization_error: 16.7342 - val_loss: 69.1797 - val_reconstruction_error: 54.7961 - val_regularization_error: 14.3836
Epoch 679/1000
120/120 [=====] - 23s 195ms/step - loss: 40.2715 - reconstruction_error: 23.6290 - regularization_error: 16.6425 - val_loss: 68.3205 - val_reconstruction_error: 53.8789 - val_regularization_error: 14.4416
Epoch 680/1000
120/120 [=====] - 22s 185ms/step - loss: 40.2595 - reconstruction_error: 23.6252 - regularization_error: 16.6343 - val_loss: 69.0433 - val_reconstruction_error: 54.8931 - val_regularization_error: 14.1502
Epoch 681/1000
120/120 [=====] - ETA: 0s - loss: 40.1851 - reconstruction_error: 23.6399 - regularization_error: 16.5452
[2023-12-02 02:05:03.016204]: Reconstructing images for epoch 681 ...
```



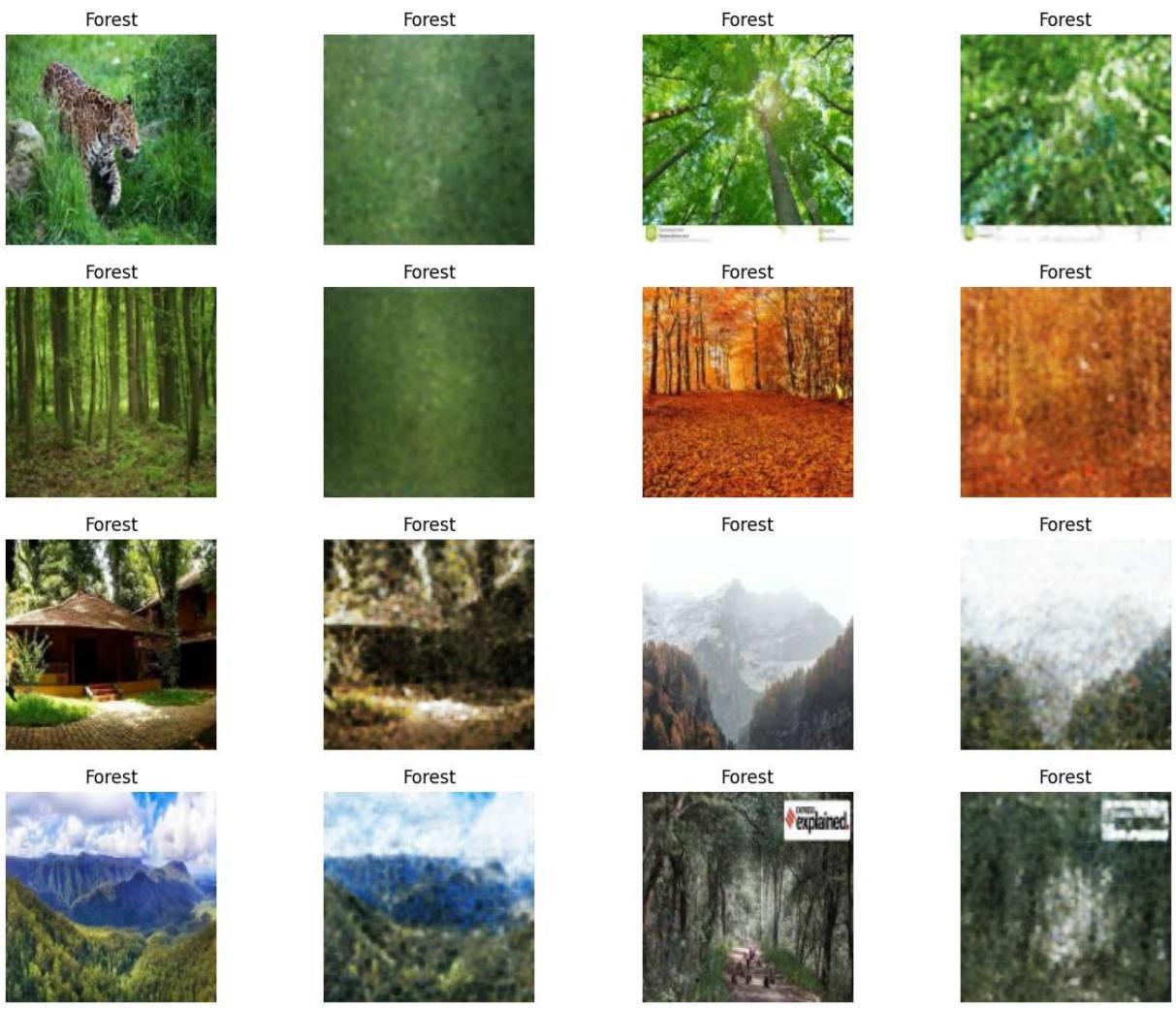
```
120/120 [=====] - 25s 205ms/step - loss: 40.1851 - reconstruction_error: 23.6399 - regularization_error: 16.5452 - val_loss: 69.7169 - val_reconstruction_error: 54.9641 - val_regularization_error: 14.7528
Epoch 682/1000
120/120 [=====] - 23s 193ms/step - loss: 40.3511 - reconstruction_error: 23.5938 - regularization_error: 16.7574 - val_loss: 69.6692 - val_reconstruction_error: 54.5019 - val_regularization_error: 15.1673
Epoch 683/1000
120/120 [=====] - 24s 197ms/step - loss: 40.1424 - reconstruction_error: 23.5066 - regularization_error: 16.6358 - val_loss: 69.5145 - val_reconstruction_error: 55.5321 - val_regularization_error: 13.9823
Epoch 684/1000
120/120 [=====] - 23s 190ms/step - loss: 40.4732 - reconstruction_error: 23.6966 - regularization_error: 16.7766 - val_loss: 69.3643 - val_reconstruction_error: 54.2750 - val_regularization_error: 15.0892
Epoch 685/1000
120/120 [=====] - 24s 197ms/step - loss: 40.3824 - reconstruction_error: 23.6691 - regularization_error: 16.7133 - val_loss: 69.4119 - val_reconstruction_error: 54.2344 - val_regularization_error: 15.1775
Epoch 686/1000
120/120 [=====] - 21s 174ms/step - loss: 40.6060 - reconstruction_error: 23.7048 - regularization_error: 16.9011 - val_loss: 68.1043 - val_reconstruction_error: 54.3854 - val_regularization_error: 13.7189
Epoch 687/1000
120/120 [=====] - 19s 160ms/step - loss: 40.0973 - reconstruction_error: 23.5060 - regularization_error: 16.5914 - val_loss: 69.8386 - val_reconstruction_error: 54.9606 - val_regularization_error: 14.8781
Epoch 688/1000
120/120 [=====] - 27s 224ms/step - loss: 40.1433 - reconstruction_error: 23.4605 - regularization_error: 16.6828 - val_loss: 70.6139 - val_reconstruction_error: 55.3616 - val_regularization_error: 15.2523
Epoch 689/1000
120/120 [=====] - 22s 181ms/step - loss: 40.3512 - reconstruction_error: 23.5814 - regularization_error: 16.7698 - val_loss: 69.4260 - val_reconstruction_error: 54.8252 - val_regularization_error: 14.6008
Epoch 690/1000
120/120 [=====] - 25s 205ms/step - loss: 40.1691 - reconstruction_error: 23.5084 - regularization_error: 16.6607 - val_loss: 69.0118 - val_reconstruction_error: 54.3599 - val_regularization_error: 14.6520
Epoch 691/1000
120/120 [=====] - ETA: 0s - loss: 40.2833 - reconstruction_error: 23.6328 - regularization_error: 16.6505
[2023-12-02 02:08:57.688133]: Reconstructing images for epoch 691 ...
```



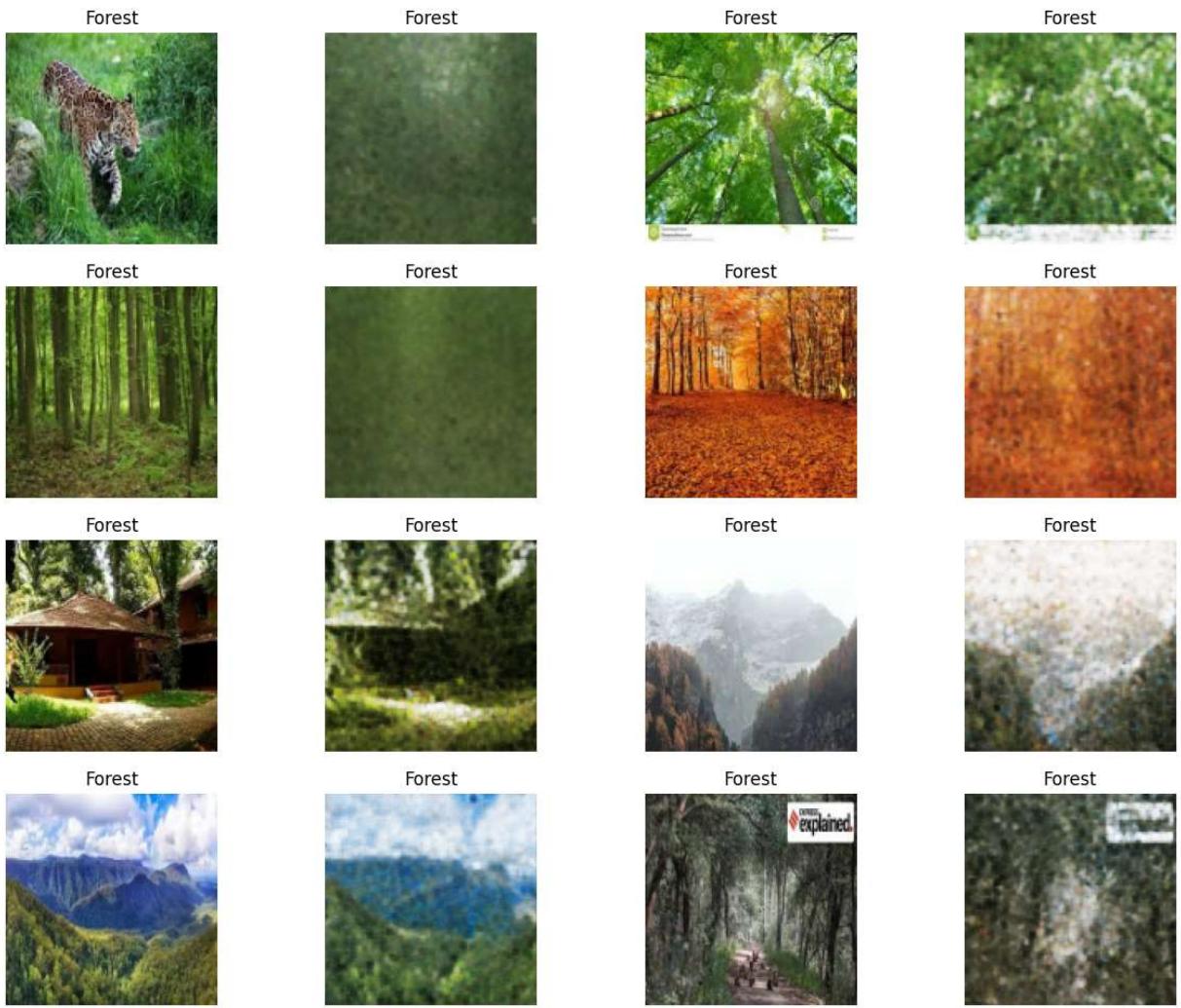
```
120/120 [=====] - 24s 202ms/step - loss: 40.2833 - reconstruction_error: 23.6328 - regularization_error: 16.6505 - val_loss: 69.9701 - val_reconstruction_error: 54.7505 - val_regularization_error: 15.2196
Epoch 692/1000
120/120 [=====] - 23s 192ms/step - loss: 40.2378 - reconstruction_error: 23.5763 - regularization_error: 16.6615 - val_loss: 69.9052 - val_reconstruction_error: 54.8524 - val_regularization_error: 15.0528
Epoch 693/1000
120/120 [=====] - 20s 163ms/step - loss: 40.2642 - reconstruction_error: 23.5068 - regularization_error: 16.7574 - val_loss: 70.3047 - val_reconstruction_error: 55.2331 - val_regularization_error: 15.0716
Epoch 694/1000
120/120 [=====] - 26s 213ms/step - loss: 40.1861 - reconstruction_error: 23.4398 - regularization_error: 16.7463 - val_loss: 69.0200 - val_reconstruction_error: 54.4825 - val_regularization_error: 14.5375
Epoch 695/1000
120/120 [=====] - 24s 200ms/step - loss: 40.3431 - reconstruction_error: 23.5986 - regularization_error: 16.7445 - val_loss: 70.0686 - val_reconstruction_error: 55.1420 - val_regularization_error: 14.9266
Epoch 696/1000
120/120 [=====] - 22s 183ms/step - loss: 40.4071 - reconstruction_error: 23.5494 - regularization_error: 16.8577 - val_loss: 69.1523 - val_reconstruction_error: 54.5761 - val_regularization_error: 14.5761
Epoch 697/1000
120/120 [=====] - 21s 176ms/step - loss: 40.3057 - reconstruction_error: 23.5946 - regularization_error: 16.7111 - val_loss: 69.2562 - val_reconstruction_error: 54.3755 - val_regularization_error: 14.8806
Epoch 698/1000
120/120 [=====] - 23s 193ms/step - loss: 40.2561 - reconstruction_error: 23.4632 - regularization_error: 16.7929 - val_loss: 69.2235 - val_reconstruction_error: 54.7090 - val_regularization_error: 14.5145
Epoch 699/1000
120/120 [=====] - 20s 169ms/step - loss: 39.9497 - reconstruction_error: 23.4079 - regularization_error: 16.5418 - val_loss: 69.2332 - val_reconstruction_error: 54.2867 - val_regularization_error: 14.9465
Epoch 700/1000
120/120 [=====] - 21s 173ms/step - loss: 40.2265 - reconstruction_error: 23.4747 - regularization_error: 16.7517 - val_loss: 70.5860 - val_reconstruction_error: 54.8021 - val_regularization_error: 15.7838
Epoch 701/1000
120/120 [=====] - ETA: 0s - loss: 40.1142 - reconstruction_error: 23.3866 - regularization_error: 16.7276
[2023-12-02 02:12:49.429425]: Reconstructing images for epoch 701 ...
```



```
120/120 [=====] - 27s 216ms/step - loss: 40.1142 - reconstruction_error: 23.3866 - regularization_error: 16.7276 - val_loss: 69.6460 - val_reconstruction_error: 54.6761 - val_regularization_error: 14.9699
Epoch 702/1000
120/120 [=====] - 20s 167ms/step - loss: 39.9898 - reconstruction_error: 23.3975 - regularization_error: 16.5924 - val_loss: 68.8243 - val_reconstruction_error: 54.3474 - val_regularization_error: 14.4769
Epoch 703/1000
120/120 [=====] - 18s 148ms/step - loss: 39.9960 - reconstruction_error: 23.3746 - regularization_error: 16.6214 - val_loss: 69.4694 - val_reconstruction_error: 53.7986 - val_regularization_error: 15.6708
Epoch 704/1000
120/120 [=====] - 25s 209ms/step - loss: 39.8655 - reconstruction_error: 23.3043 - regularization_error: 16.5612 - val_loss: 69.6128 - val_reconstruction_error: 54.6862 - val_regularization_error: 14.9266
Epoch 705/1000
120/120 [=====] - 25s 203ms/step - loss: 40.1491 - reconstruction_error: 23.4001 - regularization_error: 16.7490 - val_loss: 68.4594 - val_reconstruction_error: 53.8524 - val_regularization_error: 14.6070
Epoch 706/1000
120/120 [=====] - 23s 191ms/step - loss: 40.1289 - reconstruction_error: 23.3693 - regularization_error: 16.7596 - val_loss: 69.0268 - val_reconstruction_error: 54.4302 - val_regularization_error: 14.5965
Epoch 707/1000
120/120 [=====] - 25s 208ms/step - loss: 39.9568 - reconstruction_error: 23.4025 - regularization_error: 16.5542 - val_loss: 68.9959 - val_reconstruction_error: 54.3468 - val_regularization_error: 14.6491
Epoch 708/1000
120/120 [=====] - 20s 169ms/step - loss: 39.9014 - reconstruction_error: 23.3269 - regularization_error: 16.5745 - val_loss: 69.4667 - val_reconstruction_error: 55.1838 - val_regularization_error: 14.2829
Epoch 709/1000
120/120 [=====] - 24s 200ms/step - loss: 39.9183 - reconstruction_error: 23.3733 - regularization_error: 16.5450 - val_loss: 69.8008 - val_reconstruction_error: 54.5791 - val_regularization_error: 15.2218
Epoch 710/1000
120/120 [=====] - 22s 186ms/step - loss: 40.2958 - reconstruction_error: 23.4754 - regularization_error: 16.8204 - val_loss: 69.5838 - val_reconstruction_error: 54.2011 - val_regularization_error: 15.3827
Epoch 711/1000
120/120 [=====] - ETA: 0s - loss: 40.0718 - reconstruction_error: 23.4236 - regularization_error: 16.6482
[2023-12-02 02:16:35.916864]: Reconstructing images for epoch 711 ...
```



```
120/120 [=====] - 23s 195ms/step - loss: 40.0718 - reconstruction_error: 23.4236 - regularization_error: 16.6482 - val_loss: 70.3348 - val_reconstruction_error: 54.4878 - val_regularization_error: 15.8470
Epoch 712/1000
120/120 [=====] - 22s 185ms/step - loss: 40.0916 - reconstruction_error: 23.3434 - regularization_error: 16.7482 - val_loss: 68.0713 - val_reconstruction_error: 54.2719 - val_regularization_error: 13.7994
Epoch 713/1000
120/120 [=====] - 22s 179ms/step - loss: 40.0671 - reconstruction_error: 23.2913 - regularization_error: 16.7758 - val_loss: 69.0381 - val_reconstruction_error: 53.9959 - val_regularization_error: 15.0422
Epoch 714/1000
120/120 [=====] - 23s 191ms/step - loss: 39.9393 - reconstruction_error: 23.3278 - regularization_error: 16.6116 - val_loss: 70.5053 - val_reconstruction_error: 54.6816 - val_regularization_error: 15.8236
Epoch 715/1000
120/120 [=====] - 22s 183ms/step - loss: 40.1732 - reconstruction_error: 23.3837 - regularization_error: 16.7895 - val_loss: 69.5646 - val_reconstruction_error: 54.1090 - val_regularization_error: 15.4556
Epoch 716/1000
120/120 [=====] - 24s 198ms/step - loss: 40.1303 - reconstruction_error: 23.3914 - regularization_error: 16.7390 - val_loss: 68.5845 - val_reconstruction_error: 54.3821 - val_regularization_error: 14.2024
Epoch 717/1000
120/120 [=====] - 22s 181ms/step - loss: 39.9180 - reconstruction_error: 23.2405 - regularization_error: 16.6775 - val_loss: 68.7435 - val_reconstruction_error: 53.7903 - val_regularization_error: 14.9533
Epoch 718/1000
120/120 [=====] - 22s 184ms/step - loss: 40.0600 - reconstruction_error: 23.3500 - regularization_error: 16.7100 - val_loss: 68.9495 - val_reconstruction_error: 54.9540 - val_regularization_error: 13.9955
Epoch 719/1000
120/120 [=====] - 23s 189ms/step - loss: 40.0064 - reconstruction_error: 23.2856 - regularization_error: 16.7208 - val_loss: 69.3331 - val_reconstruction_error: 53.9068 - val_regularization_error: 15.4263
Epoch 720/1000
120/120 [=====] - 22s 183ms/step - loss: 39.8409 - reconstruction_error: 23.2107 - regularization_error: 16.6302 - val_loss: 69.3975 - val_reconstruction_error: 54.5622 - val_regularization_error: 14.8353
Epoch 721/1000
120/120 [=====] - ETA: 0s - loss: 39.7961 - reconstruction_error: 23.2079 - regularization_error: 16.5882
[2023-12-02 02:20:28.003621]: Reconstructing images for epoch 721 ...
```



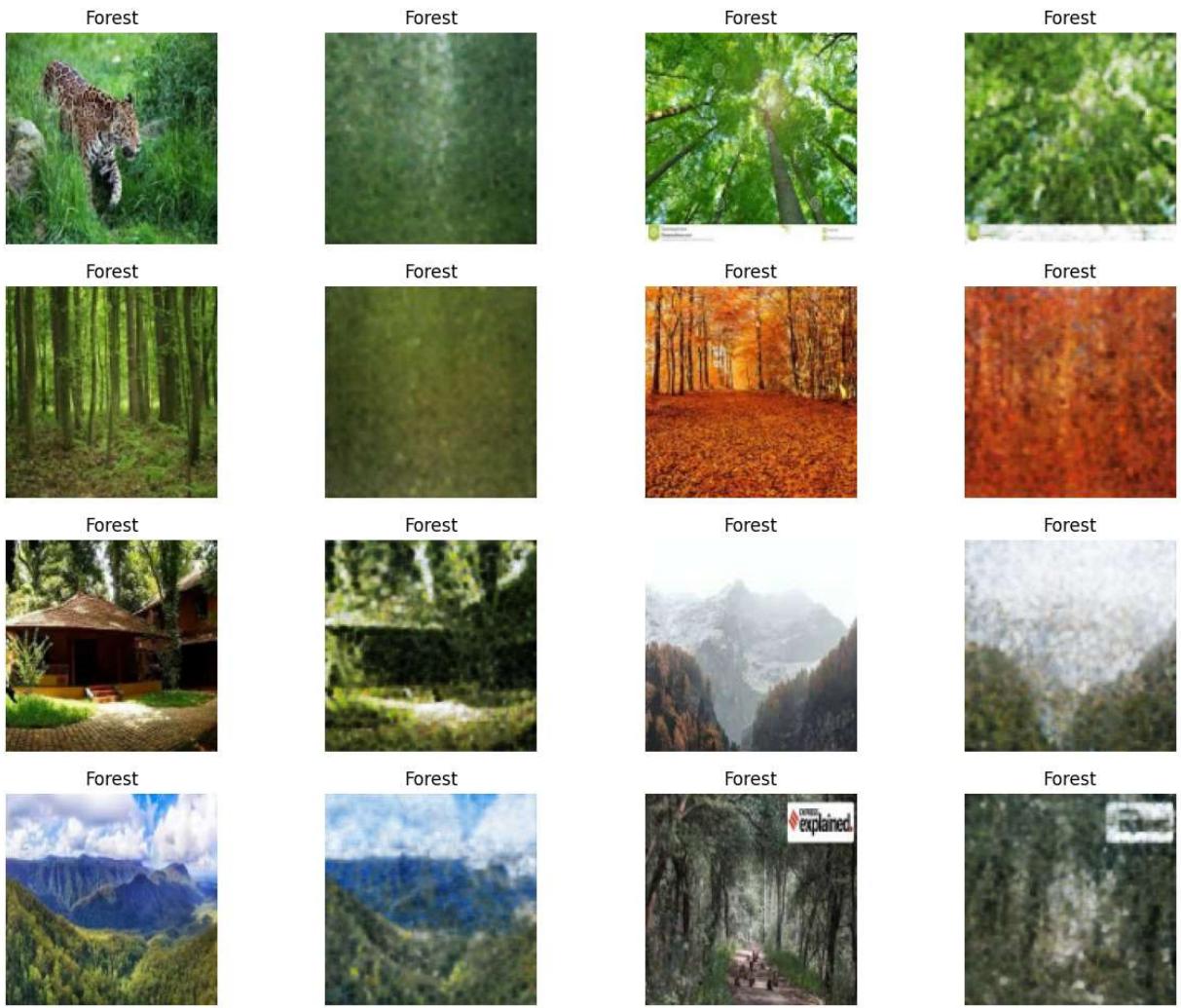
```
120/120 [=====] - 29s 239ms/step - loss: 39.7961 - reconstruction_error: 23.2079 - regularization_error: 16.5882 - val_loss: 70.2604 - val_reconstruction_error: 55.2778 - val_regularization_error: 14.9826
Epoch 722/1000
120/120 [=====] - 25s 211ms/step - loss: 39.9062 - reconstruction_error: 23.2479 - regularization_error: 16.6584 - val_loss: 69.3406 - val_reconstruction_error: 54.5287 - val_regularization_error: 14.8119
Epoch 723/1000
120/120 [=====] - 23s 195ms/step - loss: 39.9117 - reconstruction_error: 23.2768 - regularization_error: 16.6349 - val_loss: 69.9339 - val_reconstruction_error: 54.6813 - val_regularization_error: 15.2526
Epoch 724/1000
120/120 [=====] - 24s 201ms/step - loss: 39.7494 - reconstruction_error: 23.1209 - regularization_error: 16.6284 - val_loss: 69.3473 - val_reconstruction_error: 55.0513 - val_regularization_error: 14.2960
Epoch 725/1000
120/120 [=====] - 20s 163ms/step - loss: 39.7687 - reconstruction_error: 23.1840 - regularization_error: 16.5846 - val_loss: 69.5491 - val_reconstruction_error: 54.1067 - val_regularization_error: 15.4424
Epoch 726/1000
120/120 [=====] - 23s 188ms/step - loss: 39.8923 - reconstruction_error: 23.1857 - regularization_error: 16.7067 - val_loss: 70.2470 - val_reconstruction_error: 55.3628 - val_regularization_error: 14.8842
Epoch 727/1000
120/120 [=====] - 25s 206ms/step - loss: 39.7487 - reconstruction_error: 23.1643 - regularization_error: 16.5844 - val_loss: 69.1976 - val_reconstruction_error: 54.4546 - val_regularization_error: 14.7430
Epoch 728/1000
120/120 [=====] - 20s 165ms/step - loss: 39.8904 - reconstruction_error: 23.1680 - regularization_error: 16.7224 - val_loss: 69.5419 - val_reconstruction_error: 54.6430 - val_regularization_error: 14.8989
Epoch 729/1000
120/120 [=====] - 24s 188ms/step - loss: 40.0404 - reconstruction_error: 23.2499 - regularization_error: 16.7905 - val_loss: 68.6381 - val_reconstruction_error: 54.4736 - val_regularization_error: 14.1645
Epoch 730/1000
120/120 [=====] - 22s 182ms/step - loss: 40.1291 - reconstruction_error: 23.2589 - regularization_error: 16.8702 - val_loss: 70.0147 - val_reconstruction_error: 54.5855 - val_regularization_error: 15.4292
Epoch 731/1000
120/120 [=====] - ETA: 0s - loss: 40.0753 - reconstruction_error: 23.2392 - regularization_error: 16.8362
[2023-12-02 02:24:21.955944]: Reconstructing images for epoch 731 ...
```



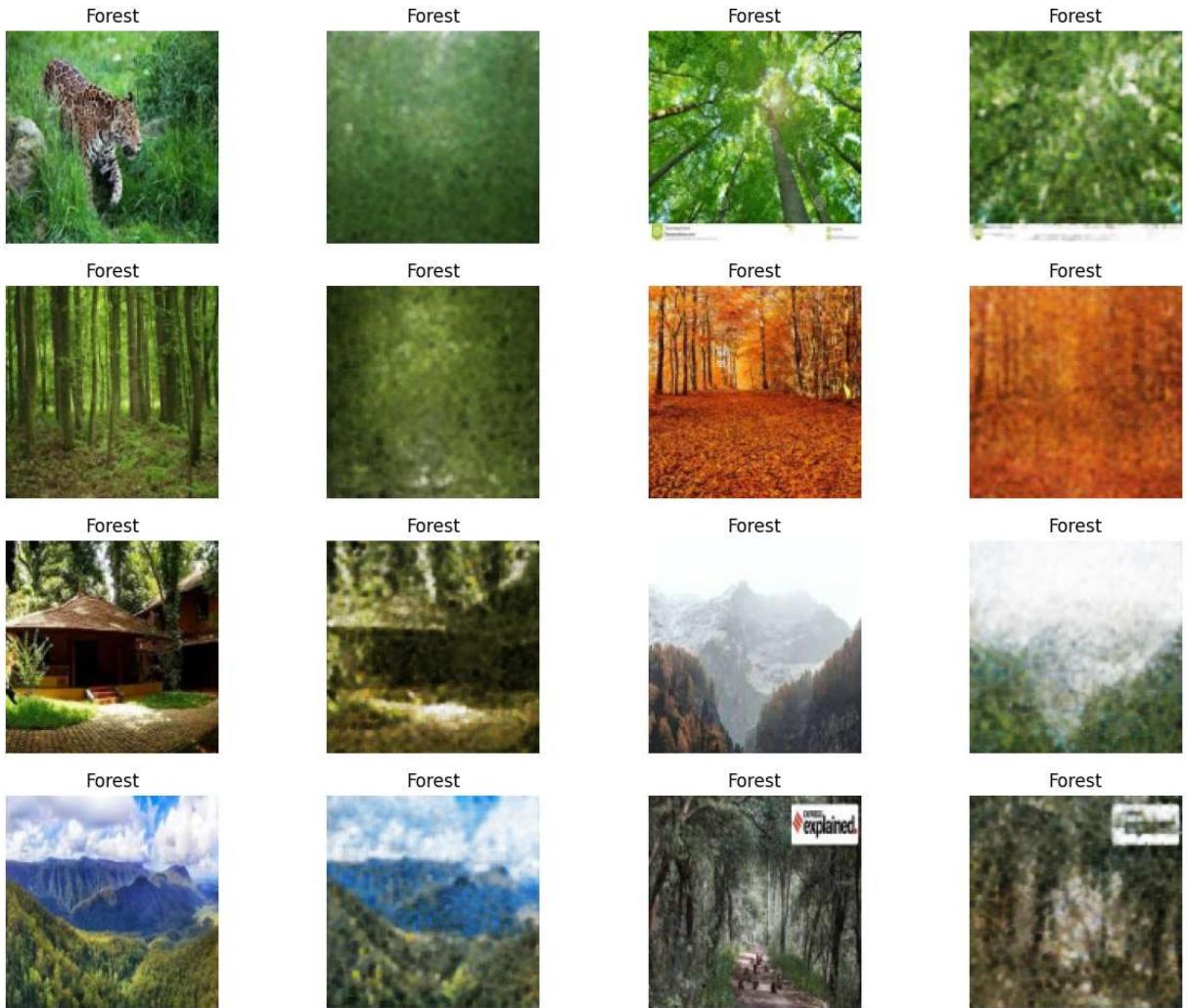
```
120/120 [=====] - 27s 223ms/step - loss: 40.0753 - reconstruction_error: 23.2392 - regularization_error: 16.8362 - val_loss: 70.1618 - val_reconstruction_error: 54.2103 - val_regularization_error: 15.9515
Epoch 732/1000
120/120 [=====] - 23s 195ms/step - loss: 39.7254 - reconstruction_error: 22.9992 - regularization_error: 16.7262 - val_loss: 70.1544 - val_reconstruction_error: 54.8262 - val_regularization_error: 15.3282
Epoch 733/1000
120/120 [=====] - 19s 156ms/step - loss: 40.0372 - reconstruction_error: 23.2906 - regularization_error: 16.7467 - val_loss: 70.1151 - val_reconstruction_error: 55.0505 - val_regularization_error: 15.0646
Epoch 734/1000
120/120 [=====] - 21s 173ms/step - loss: 40.0081 - reconstruction_error: 23.2160 - regularization_error: 16.7921 - val_loss: 70.4472 - val_reconstruction_error: 55.4643 - val_regularization_error: 14.9830
Epoch 735/1000
120/120 [=====] - 25s 205ms/step - loss: 39.9128 - reconstruction_error: 23.2132 - regularization_error: 16.6996 - val_loss: 69.2801 - val_reconstruction_error: 54.2371 - val_regularization_error: 15.0430
Epoch 736/1000
120/120 [=====] - 22s 182ms/step - loss: 39.9448 - reconstruction_error: 23.2128 - regularization_error: 16.7320 - val_loss: 69.4785 - val_reconstruction_error: 54.5982 - val_regularization_error: 14.8802
Epoch 737/1000
120/120 [=====] - 22s 180ms/step - loss: 39.9007 - reconstruction_error: 23.2346 - regularization_error: 16.6660 - val_loss: 69.8846 - val_reconstruction_error: 54.8409 - val_regularization_error: 15.0437
Epoch 738/1000
120/120 [=====] - 22s 183ms/step - loss: 39.9039 - reconstruction_error: 23.0813 - regularization_error: 16.8226 - val_loss: 71.0873 - val_reconstruction_error: 55.6491 - val_regularization_error: 15.4382
Epoch 739/1000
120/120 [=====] - 24s 197ms/step - loss: 39.9105 - reconstruction_error: 23.1898 - regularization_error: 16.7207 - val_loss: 69.2849 - val_reconstruction_error: 55.0267 - val_regularization_error: 14.2582
Epoch 740/1000
120/120 [=====] - 18s 152ms/step - loss: 39.8358 - reconstruction_error: 23.1419 - regularization_error: 16.6939 - val_loss: 68.2582 - val_reconstruction_error: 53.5685 - val_regularization_error: 14.6897
Epoch 741/1000
120/120 [=====] - ETA: 0s - loss: 39.7527 - reconstruction_error: 23.0144 - regularization_error: 16.7383
[2023-12-02 02:28:05.258695]: Reconstructing images for epoch 741 ...
```



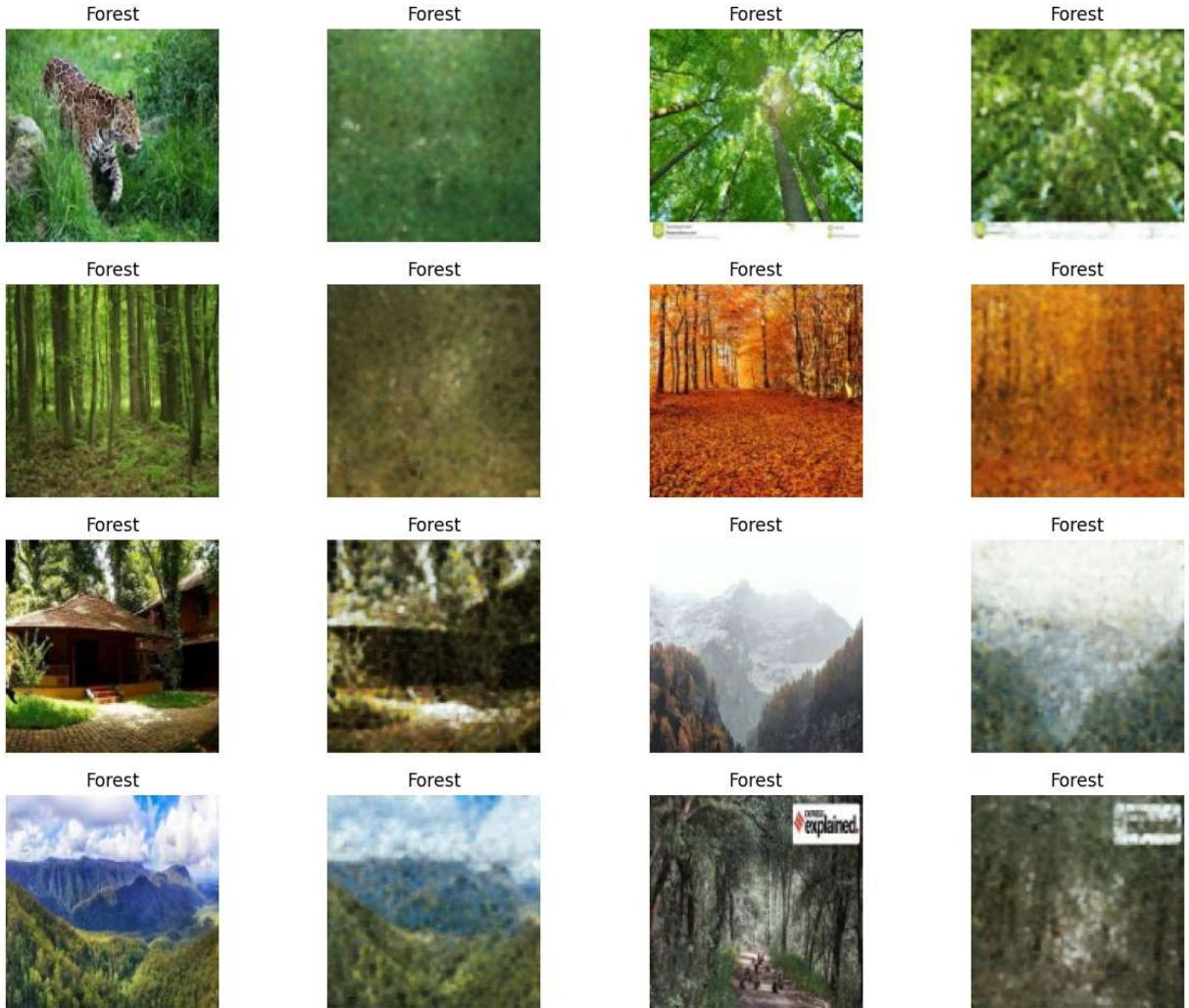
```
120/120 [=====] - 26s 216ms/step - loss: 39.7527 - reconstruction_error: 23.0144 - regularization_error: 16.7383 - val_loss: 68.7791 - val_reconstruction_error: 54.8170 - val_regularization_error: 13.9621
Epoch 742/1000
120/120 [=====] - 22s 180ms/step - loss: 39.8238 - reconstruction_error: 23.0781 - regularization_error: 16.7457 - val_loss: 69.9952 - val_reconstruction_error: 55.4418 - val_regularization_error: 14.5534
Epoch 743/1000
120/120 [=====] - 22s 182ms/step - loss: 39.7694 - reconstruction_error: 23.0608 - regularization_error: 16.7086 - val_loss: 69.2343 - val_reconstruction_error: 54.6991 - val_regularization_error: 14.5353
Epoch 744/1000
120/120 [=====] - 25s 210ms/step - loss: 39.8145 - reconstruction_error: 23.0809 - regularization_error: 16.7336 - val_loss: 70.9144 - val_reconstruction_error: 55.1890 - val_regularization_error: 15.7254
Epoch 745/1000
120/120 [=====] - 21s 170ms/step - loss: 39.7941 - reconstruction_error: 23.0760 - regularization_error: 16.7182 - val_loss: 68.6699 - val_reconstruction_error: 53.8979 - val_regularization_error: 14.7720
Epoch 746/1000
120/120 [=====] - 22s 182ms/step - loss: 39.6122 - reconstruction_error: 22.8966 - regularization_error: 16.7156 - val_loss: 69.8043 - val_reconstruction_error: 55.3295 - val_regularization_error: 14.4748
Epoch 747/1000
120/120 [=====] - 20s 165ms/step - loss: 39.5787 - reconstruction_error: 22.9863 - regularization_error: 16.5924 - val_loss: 70.3424 - val_reconstruction_error: 55.5261 - val_regularization_error: 14.8162
Epoch 748/1000
120/120 [=====] - 22s 186ms/step - loss: 39.6379 - reconstruction_error: 23.0134 - regularization_error: 16.6245 - val_loss: 69.4137 - val_reconstruction_error: 55.0173 - val_regularization_error: 14.3964
Epoch 749/1000
120/120 [=====] - 22s 181ms/step - loss: 39.6187 - reconstruction_error: 22.9107 - regularization_error: 16.7080 - val_loss: 69.5588 - val_reconstruction_error: 55.3340 - val_regularization_error: 14.2247
Epoch 750/1000
120/120 [=====] - 22s 180ms/step - loss: 39.7416 - reconstruction_error: 23.0160 - regularization_error: 16.7256 - val_loss: 70.1012 - val_reconstruction_error: 54.8884 - val_regularization_error: 15.2128
Epoch 751/1000
120/120 [=====] - ETA: 0s - loss: 39.9261 - reconstruction_error: 23.0968 - regularization_error: 16.8293
[2023-12-02 02:31:52.110517]: Reconstructing images for epoch 751 ...
```



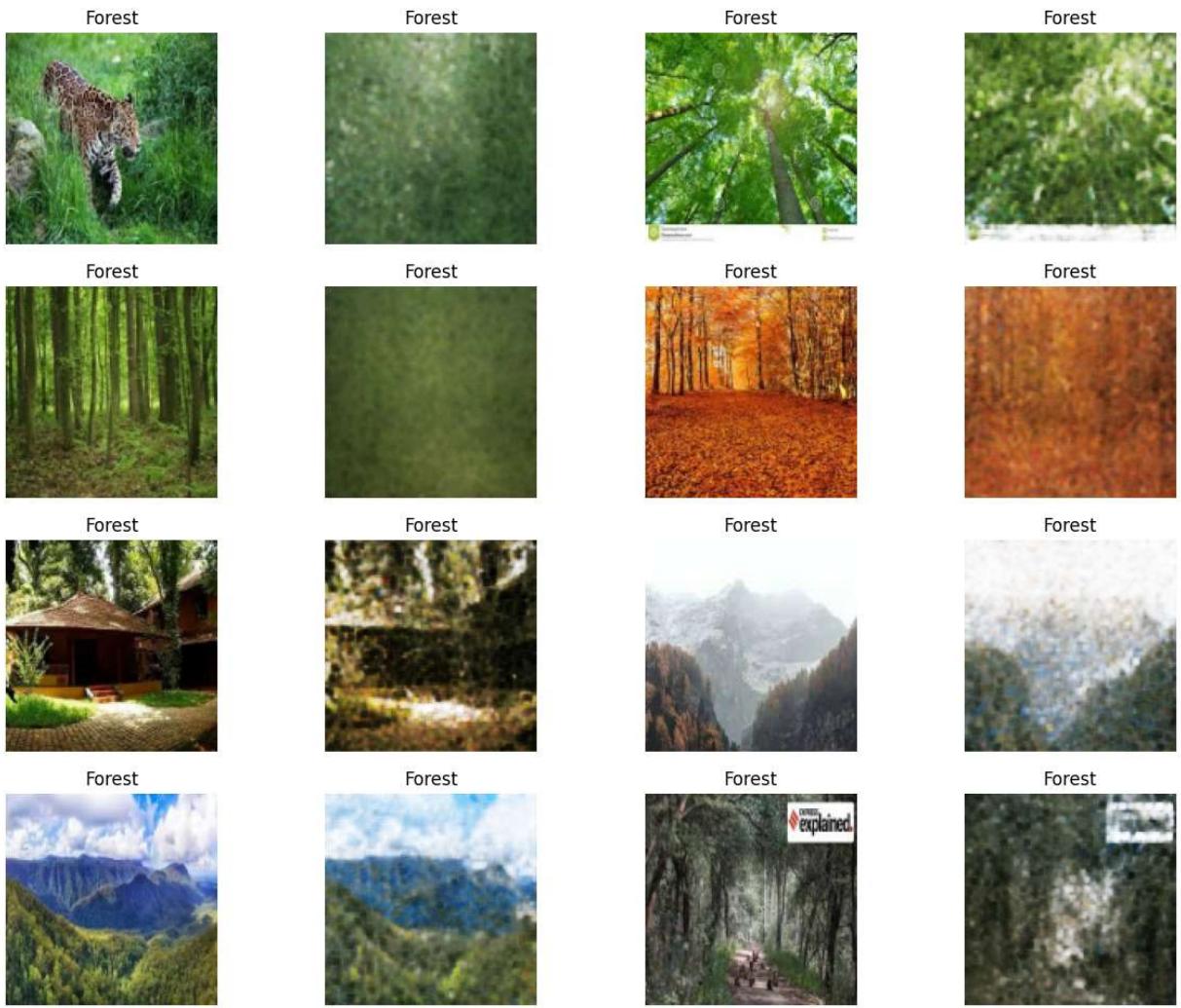
```
120/120 [=====] - 27s 224ms/step - loss: 39.9261 - reconstruction_error: 23.0968 - regularization_error: 16.8293 - val_loss: 70.0920 - val_reconstruction_error: 55.2438 - val_regularization_error: 14.8482
Epoch 752/1000
120/120 [=====] - 21s 179ms/step - loss: 39.7580 - reconstruction_error: 23.0019 - regularization_error: 16.7561 - val_loss: 69.9782 - val_reconstruction_error: 55.4742 - val_regularization_error: 14.5041
Epoch 753/1000
120/120 [=====] - 22s 187ms/step - loss: 39.9148 - reconstruction_error: 23.0958 - regularization_error: 16.8190 - val_loss: 68.5036 - val_reconstruction_error: 53.4259 - val_regularization_error: 15.0777
Epoch 754/1000
120/120 [=====] - 23s 192ms/step - loss: 39.8949 - reconstruction_error: 23.0966 - regularization_error: 16.7983 - val_loss: 69.1487 - val_reconstruction_error: 54.5669 - val_regularization_error: 14.5818
Epoch 755/1000
120/120 [=====] - 21s 177ms/step - loss: 39.7866 - reconstruction_error: 23.0198 - regularization_error: 16.7668 - val_loss: 71.0862 - val_reconstruction_error: 55.2852 - val_regularization_error: 15.8010
Epoch 756/1000
120/120 [=====] - 18s 149ms/step - loss: 39.7365 - reconstruction_error: 22.8718 - regularization_error: 16.8647 - val_loss: 69.5801 - val_reconstruction_error: 54.9692 - val_regularization_error: 14.6108
Epoch 757/1000
120/120 [=====] - 21s 176ms/step - loss: 39.5609 - reconstruction_error: 22.8583 - regularization_error: 16.7027 - val_loss: 69.9836 - val_reconstruction_error: 55.7236 - val_regularization_error: 14.2600
Epoch 758/1000
120/120 [=====] - 24s 202ms/step - loss: 39.7095 - reconstruction_error: 22.8957 - regularization_error: 16.8138 - val_loss: 69.7590 - val_reconstruction_error: 55.0198 - val_regularization_error: 14.7392
Epoch 759/1000
120/120 [=====] - 21s 175ms/step - loss: 39.6091 - reconstruction_error: 22.9315 - regularization_error: 16.6776 - val_loss: 69.1005 - val_reconstruction_error: 54.3476 - val_regularization_error: 14.7529
Epoch 760/1000
120/120 [=====] - 24s 197ms/step - loss: 39.4522 - reconstruction_error: 22.8212 - regularization_error: 16.6310 - val_loss: 69.3875 - val_reconstruction_error: 54.8896 - val_regularization_error: 14.4979
Epoch 761/1000
120/120 [=====] - ETA: 0s - loss: 39.6669 - reconstruction_error: 22.9395 - regularization_error: 16.7275
[2023-12-02 02:35:36.502935]: Reconstructing images for epoch 761 ...
```



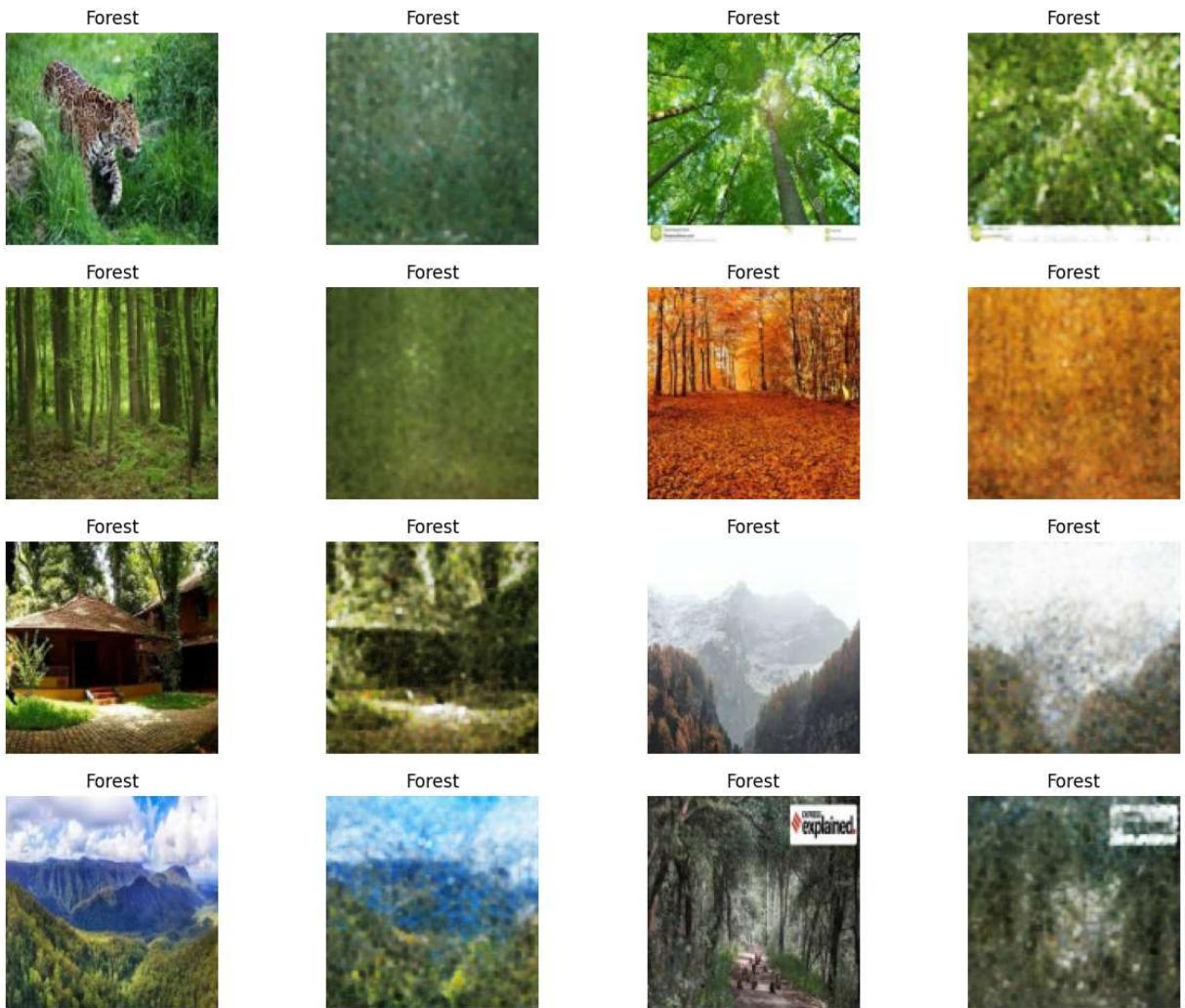
```
120/120 [=====] - 24s 198ms/step - loss: 39.6669 - reconstruction_error: 22.9395 - regularization_error: 16.7275 - val_loss: 69.3453 - val_reconstruction_error: 53.6616 - val_regularization_error: 15.6836
Epoch 762/1000
120/120 [=====] - 21s 174ms/step - loss: 39.7443 - reconstruction_error: 22.9433 - regularization_error: 16.8010 - val_loss: 70.1198 - val_reconstruction_error: 55.7584 - val_regularization_error: 14.3614
Epoch 763/1000
120/120 [=====] - 22s 182ms/step - loss: 39.6542 - reconstruction_error: 22.8818 - regularization_error: 16.7724 - val_loss: 70.0073 - val_reconstruction_error: 55.4012 - val_regularization_error: 14.6062
Epoch 764/1000
120/120 [=====] - 23s 190ms/step - loss: 39.7346 - reconstruction_error: 22.9287 - regularization_error: 16.8058 - val_loss: 70.1093 - val_reconstruction_error: 54.6137 - val_regularization_error: 15.4956
Epoch 765/1000
120/120 [=====] - 25s 204ms/step - loss: 39.5236 - reconstruction_error: 22.6997 - regularization_error: 16.8239 - val_loss: 69.4568 - val_reconstruction_error: 55.0711 - val_regularization_error: 14.3857
Epoch 766/1000
120/120 [=====] - 24s 198ms/step - loss: 39.5662 - reconstruction_error: 22.9803 - regularization_error: 16.5859 - val_loss: 70.0064 - val_reconstruction_error: 55.0595 - val_regularization_error: 14.9469
Epoch 767/1000
120/120 [=====] - 23s 195ms/step - loss: 39.5765 - reconstruction_error: 22.8433 - regularization_error: 16.7331 - val_loss: 69.6520 - val_reconstruction_error: 54.4422 - val_regularization_error: 15.2098
Epoch 768/1000
120/120 [=====] - 20s 167ms/step - loss: 39.3668 - reconstruction_error: 22.7859 - regularization_error: 16.5809 - val_loss: 70.3715 - val_reconstruction_error: 55.3687 - val_regularization_error: 15.0029
Epoch 769/1000
120/120 [=====] - 22s 182ms/step - loss: 39.6363 - reconstruction_error: 22.9186 - regularization_error: 16.7176 - val_loss: 70.5595 - val_reconstruction_error: 55.1447 - val_regularization_error: 15.4148
Epoch 770/1000
120/120 [=====] - 28s 233ms/step - loss: 39.5316 - reconstruction_error: 22.8192 - regularization_error: 16.7124 - val_loss: 70.8499 - val_reconstruction_error: 55.6730 - val_regularization_error: 15.1768
Epoch 771/1000
120/120 [=====] - ETA: 0s - loss: 39.5071 - reconstruction_error: 22.7425 - regularization_error: 16.7645
[2023-12-02 02:39:31.663871]: Reconstructing images for epoch 771 ...
```



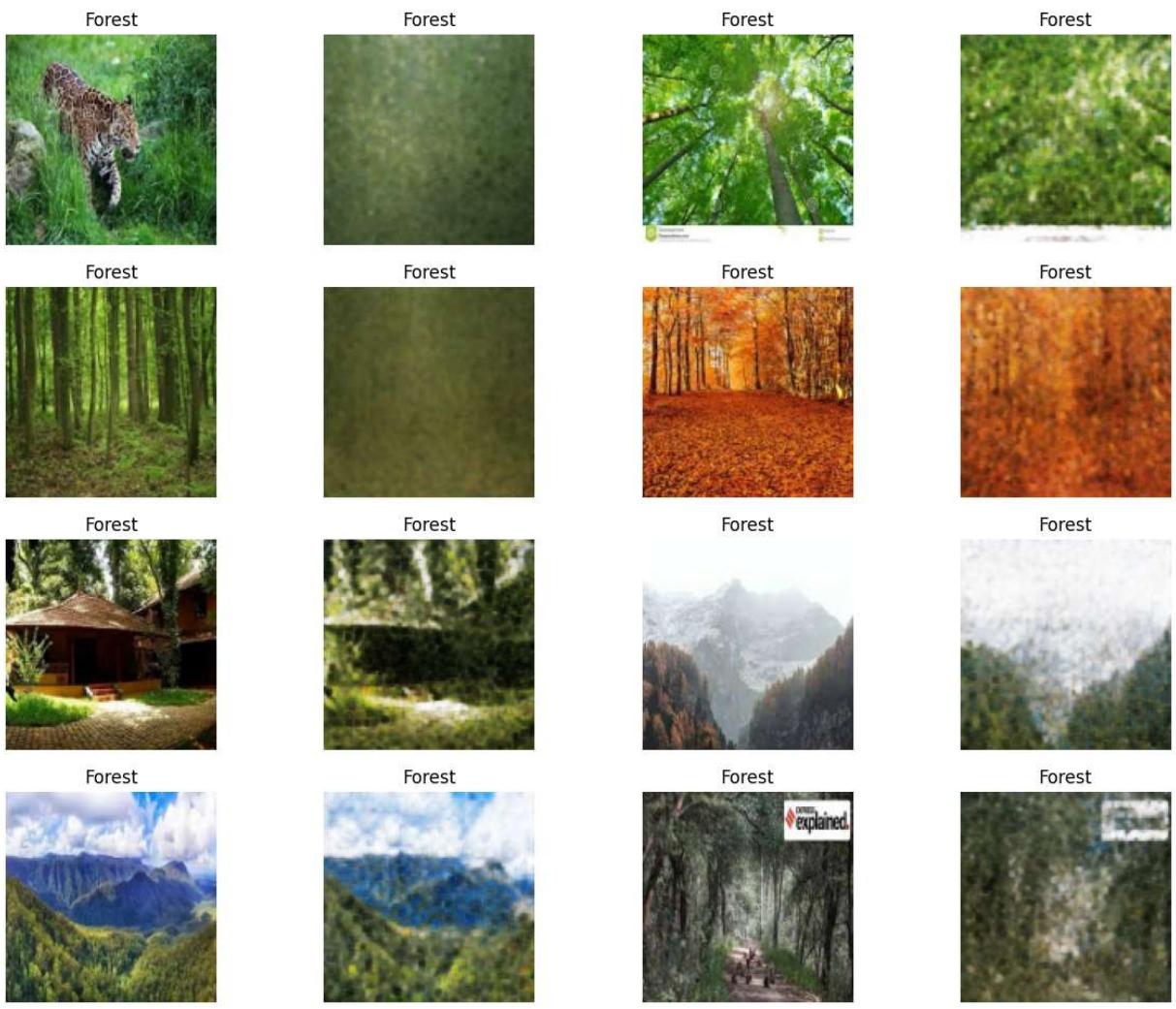
```
120/120 [=====] - 24s 202ms/step - loss: 39.5071 - reconstruction_error: 22.7425 - regularization_error: 16.7645 - val_loss: 69.7920 - val_reconstruction_error: 55.0369 - val_regularization_error: 14.7552
Epoch 772/1000
120/120 [=====] - 18s 151ms/step - loss: 39.6947 - reconstruction_error: 22.8554 - regularization_error: 16.8393 - val_loss: 69.4884 - val_reconstruction_error: 54.4832 - val_regularization_error: 15.0052
Epoch 773/1000
120/120 [=====] - 22s 183ms/step - loss: 39.3922 - reconstruction_error: 22.7784 - regularization_error: 16.6138 - val_loss: 69.2580 - val_reconstruction_error: 54.3598 - val_regularization_error: 14.8982
Epoch 774/1000
120/120 [=====] - 23s 193ms/step - loss: 39.5874 - reconstruction_error: 22.8104 - regularization_error: 16.7770 - val_loss: 68.7719 - val_reconstruction_error: 54.2487 - val_regularization_error: 14.5232
Epoch 775/1000
120/120 [=====] - 21s 176ms/step - loss: 39.4779 - reconstruction_error: 22.7542 - regularization_error: 16.7237 - val_loss: 69.0222 - val_reconstruction_error: 54.5560 - val_regularization_error: 14.4662
Epoch 776/1000
120/120 [=====] - 23s 193ms/step - loss: 39.7233 - reconstruction_error: 22.9211 - regularization_error: 16.8022 - val_loss: 70.3108 - val_reconstruction_error: 54.9154 - val_regularization_error: 15.3954
Epoch 777/1000
120/120 [=====] - 22s 180ms/step - loss: 39.4713 - reconstruction_error: 22.7294 - regularization_error: 16.7419 - val_loss: 70.2050 - val_reconstruction_error: 55.5241 - val_regularization_error: 14.6809
Epoch 778/1000
120/120 [=====] - 25s 207ms/step - loss: 39.3477 - reconstruction_error: 22.7034 - regularization_error: 16.6443 - val_loss: 69.8796 - val_reconstruction_error: 54.8713 - val_regularization_error: 15.0083
Epoch 779/1000
120/120 [=====] - 20s 163ms/step - loss: 39.5786 - reconstruction_error: 22.8820 - regularization_error: 16.6965 - val_loss: 69.2262 - val_reconstruction_error: 54.6624 - val_regularization_error: 14.5638
Epoch 780/1000
120/120 [=====] - 22s 185ms/step - loss: 39.5021 - reconstruction_error: 22.8673 - regularization_error: 16.6348 - val_loss: 69.0062 - val_reconstruction_error: 54.6754 - val_regularization_error: 14.3308
Epoch 781/1000
120/120 [=====] - ETA: 0s - loss: 39.5667 - reconstruction_error: 22.8474 - regularization_error: 16.7193
[2023-12-02 02:43:09.352818]: Reconstructing images for epoch 781 ...
```



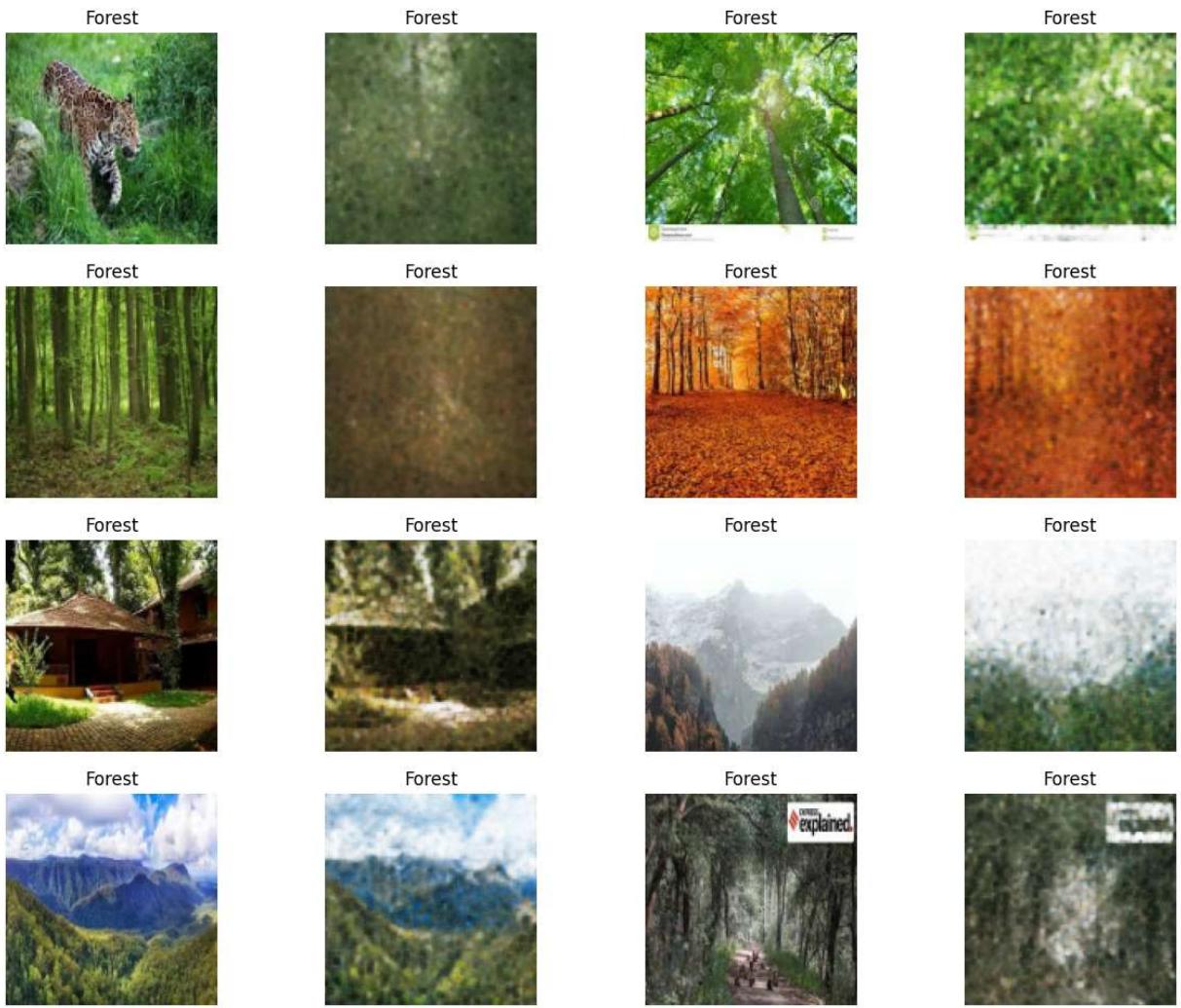
```
120/120 [=====] - 21s 173ms/step - loss: 39.5667 - reconstruction_error: 22.8474 - regularization_error: 16.7193 - val_loss: 70.3324 - val_reconstruction_error: 55.6136 - val_regularization_error: 14.7188
Epoch 782/1000
120/120 [=====] - 22s 184ms/step - loss: 39.4808 - reconstruction_error: 22.7632 - regularization_error: 16.7176 - val_loss: 69.9323 - val_reconstruction_error: 54.3601 - val_regularization_error: 15.5721
Epoch 783/1000
120/120 [=====] - 22s 186ms/step - loss: 39.7128 - reconstruction_error: 22.8409 - regularization_error: 16.8719 - val_loss: 69.9449 - val_reconstruction_error: 54.6821 - val_regularization_error: 15.2628
Epoch 784/1000
120/120 [=====] - 28s 234ms/step - loss: 39.2781 - reconstruction_error: 22.6120 - regularization_error: 16.6661 - val_loss: 69.8246 - val_reconstruction_error: 55.3804 - val_regularization_error: 14.4442
Epoch 785/1000
120/120 [=====] - 22s 178ms/step - loss: 39.4694 - reconstruction_error: 22.7781 - regularization_error: 16.6912 - val_loss: 70.3599 - val_reconstruction_error: 54.6408 - val_regularization_error: 15.7192
Epoch 786/1000
120/120 [=====] - 23s 189ms/step - loss: 39.1796 - reconstruction_error: 22.5838 - regularization_error: 16.5958 - val_loss: 70.0472 - val_reconstruction_error: 54.7909 - val_regularization_error: 15.2562
Epoch 787/1000
120/120 [=====] - 24s 200ms/step - loss: 39.4518 - reconstruction_error: 22.6571 - regularization_error: 16.7947 - val_loss: 70.3503 - val_reconstruction_error: 55.2788 - val_regularization_error: 15.0716
Epoch 788/1000
120/120 [=====] - 20s 168ms/step - loss: 39.4086 - reconstruction_error: 22.6468 - regularization_error: 16.7618 - val_loss: 69.2597 - val_reconstruction_error: 54.9597 - val_regularization_error: 14.3000
Epoch 789/1000
120/120 [=====] - 20s 168ms/step - loss: 39.3654 - reconstruction_error: 22.6670 - regularization_error: 16.6984 - val_loss: 69.7826 - val_reconstruction_error: 54.6388 - val_regularization_error: 15.1438
Epoch 790/1000
120/120 [=====] - 26s 217ms/step - loss: 39.3279 - reconstruction_error: 22.6693 - regularization_error: 16.6587 - val_loss: 69.8765 - val_reconstruction_error: 54.5885 - val_regularization_error: 15.2880
Epoch 791/1000
120/120 [=====] - ETA: 0s - loss: 39.3940 - reconstruction_error: 22.7417 - regularization_error: 16.6523
[2023-12-02 02:47:08.227194]: Reconstructing images for epoch 791 ...
```



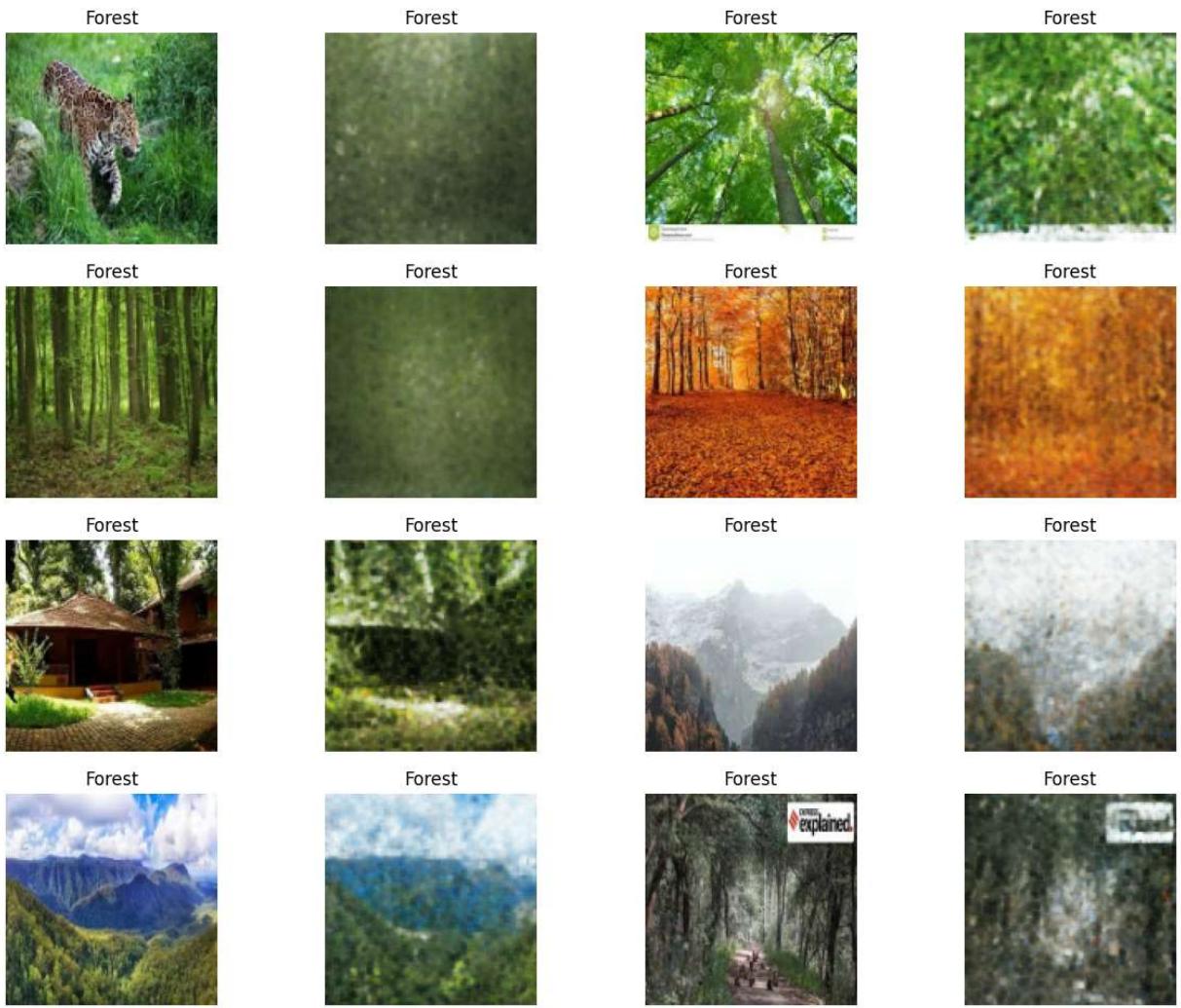
```
120/120 [=====] - 29s 241ms/step - loss: 39.3940 - reconstruction_error: 22.7417 - regularization_error: 16.6523 - val_loss: 70.5443 - val_reconstruction_error: 55.8401 - val_regularization_error: 14.7041
Epoch 792/1000
120/120 [=====] - 24s 201ms/step - loss: 39.5526 - reconstruction_error: 22.7776 - regularization_error: 16.7750 - val_loss: 70.5459 - val_reconstruction_error: 54.6977 - val_regularization_error: 15.8482
Epoch 793/1000
120/120 [=====] - 21s 173ms/step - loss: 39.2266 - reconstruction_error: 22.6289 - regularization_error: 16.5977 - val_loss: 69.7675 - val_reconstruction_error: 54.8017 - val_regularization_error: 14.9658
Epoch 794/1000
120/120 [=====] - 22s 180ms/step - loss: 39.2656 - reconstruction_error: 22.6768 - regularization_error: 16.5888 - val_loss: 70.4489 - val_reconstruction_error: 55.9654 - val_regularization_error: 14.4834
Epoch 795/1000
120/120 [=====] - 24s 198ms/step - loss: 39.4917 - reconstruction_error: 22.7429 - regularization_error: 16.7489 - val_loss: 69.0621 - val_reconstruction_error: 55.1077 - val_regularization_error: 13.9544
Epoch 796/1000
120/120 [=====] - 20s 167ms/step - loss: 39.3309 - reconstruction_error: 22.7043 - regularization_error: 16.6266 - val_loss: 69.0163 - val_reconstruction_error: 54.4600 - val_regularization_error: 14.5563
Epoch 797/1000
120/120 [=====] - 22s 180ms/step - loss: 39.2156 - reconstruction_error: 22.5938 - regularization_error: 16.6218 - val_loss: 70.3594 - val_reconstruction_error: 55.2799 - val_regularization_error: 15.0796
Epoch 798/1000
120/120 [=====] - 21s 171ms/step - loss: 39.1469 - reconstruction_error: 22.5666 - regularization_error: 16.5803 - val_loss: 70.0398 - val_reconstruction_error: 54.8045 - val_regularization_error: 15.2353
Epoch 799/1000
120/120 [=====] - 24s 194ms/step - loss: 39.4518 - reconstruction_error: 22.5719 - regularization_error: 16.8799 - val_loss: 69.4280 - val_reconstruction_error: 54.6361 - val_regularization_error: 14.7919
Epoch 800/1000
120/120 [=====] - 21s 177ms/step - loss: 39.1284 - reconstruction_error: 22.5216 - regularization_error: 16.6069 - val_loss: 69.3360 - val_reconstruction_error: 54.6018 - val_regularization_error: 14.7341
Epoch 801/1000
120/120 [=====] - ETA: 0s - loss: 39.1691 - reconstruction_error: 22.5252 - regularization_error: 16.6439
[2023-12-02 02:50:57.513983]: Reconstructing images for epoch 801 ...
```



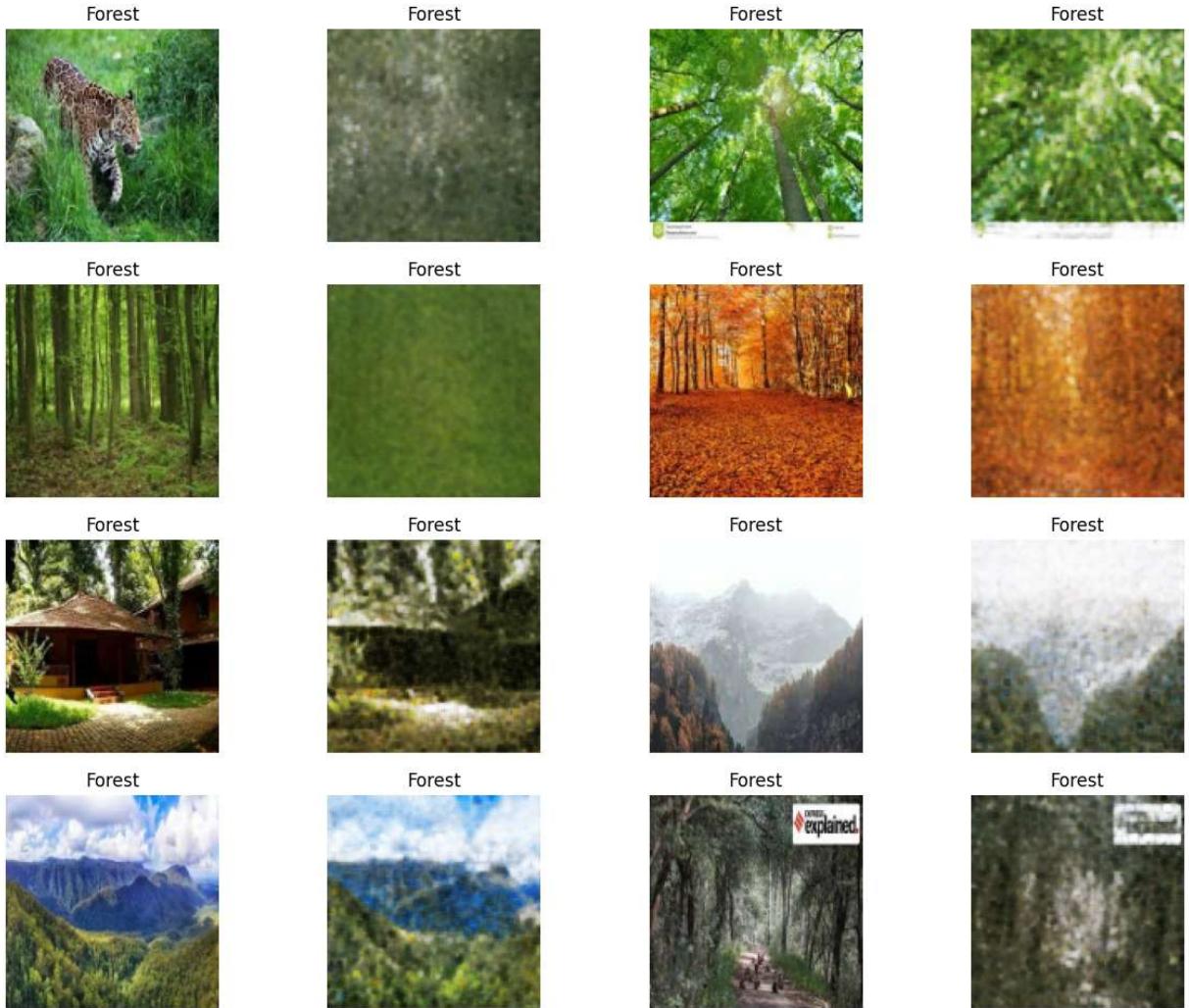
```
120/120 [=====] - 28s 233ms/step - loss: 39.1691 - reconstruction_error: 22.5252 - regularization_error: 16.6439 - val_loss: 70.8457 - val_reconstruction_error: 55.0890 - val_regularization_error: 15.7567
Epoch 802/1000
120/120 [=====] - 27s 223ms/step - loss: 39.3344 - reconstruction_error: 22.5445 - regularization_error: 16.7899 - val_loss: 69.7615 - val_reconstruction_error: 55.2966 - val_regularization_error: 14.4649
Epoch 803/1000
120/120 [=====] - 21s 176ms/step - loss: 39.4979 - reconstruction_error: 22.6943 - regularization_error: 16.8036 - val_loss: 69.8219 - val_reconstruction_error: 55.1318 - val_regularization_error: 14.6901
Epoch 804/1000
120/120 [=====] - 23s 188ms/step - loss: 39.4829 - reconstruction_error: 22.5851 - regularization_error: 16.8978 - val_loss: 69.4712 - val_reconstruction_error: 54.9973 - val_regularization_error: 14.4738
Epoch 805/1000
120/120 [=====] - 23s 195ms/step - loss: 39.3628 - reconstruction_error: 22.6424 - regularization_error: 16.7204 - val_loss: 69.8740 - val_reconstruction_error: 54.4253 - val_regularization_error: 15.4487
Epoch 806/1000
120/120 [=====] - 21s 178ms/step - loss: 39.1443 - reconstruction_error: 22.4243 - regularization_error: 16.7200 - val_loss: 70.1601 - val_reconstruction_error: 54.7606 - val_regularization_error: 15.3995
Epoch 807/1000
120/120 [=====] - 23s 189ms/step - loss: 39.2183 - reconstruction_error: 22.5328 - regularization_error: 16.6855 - val_loss: 69.6554 - val_reconstruction_error: 55.1994 - val_regularization_error: 14.4561
Epoch 808/1000
120/120 [=====] - 25s 208ms/step - loss: 39.2901 - reconstruction_error: 22.6015 - regularization_error: 16.6885 - val_loss: 70.1137 - val_reconstruction_error: 54.8727 - val_regularization_error: 15.2410
Epoch 809/1000
120/120 [=====] - 19s 157ms/step - loss: 39.4135 - reconstruction_error: 22.5861 - regularization_error: 16.8273 - val_loss: 70.3380 - val_reconstruction_error: 54.7260 - val_regularization_error: 15.6121
Epoch 810/1000
120/120 [=====] - 21s 176ms/step - loss: 39.3164 - reconstruction_error: 22.5997 - regularization_error: 16.7166 - val_loss: 69.1182 - val_reconstruction_error: 54.8241 - val_regularization_error: 14.2942
Epoch 811/1000
120/120 [=====] - ETA: 0s - loss: 39.4915 - reconstruction_error: 22.7121 - regularization_error: 16.7794
[2023-12-02 02:54:46.601734]: Reconstructing images for epoch 811 ...
```



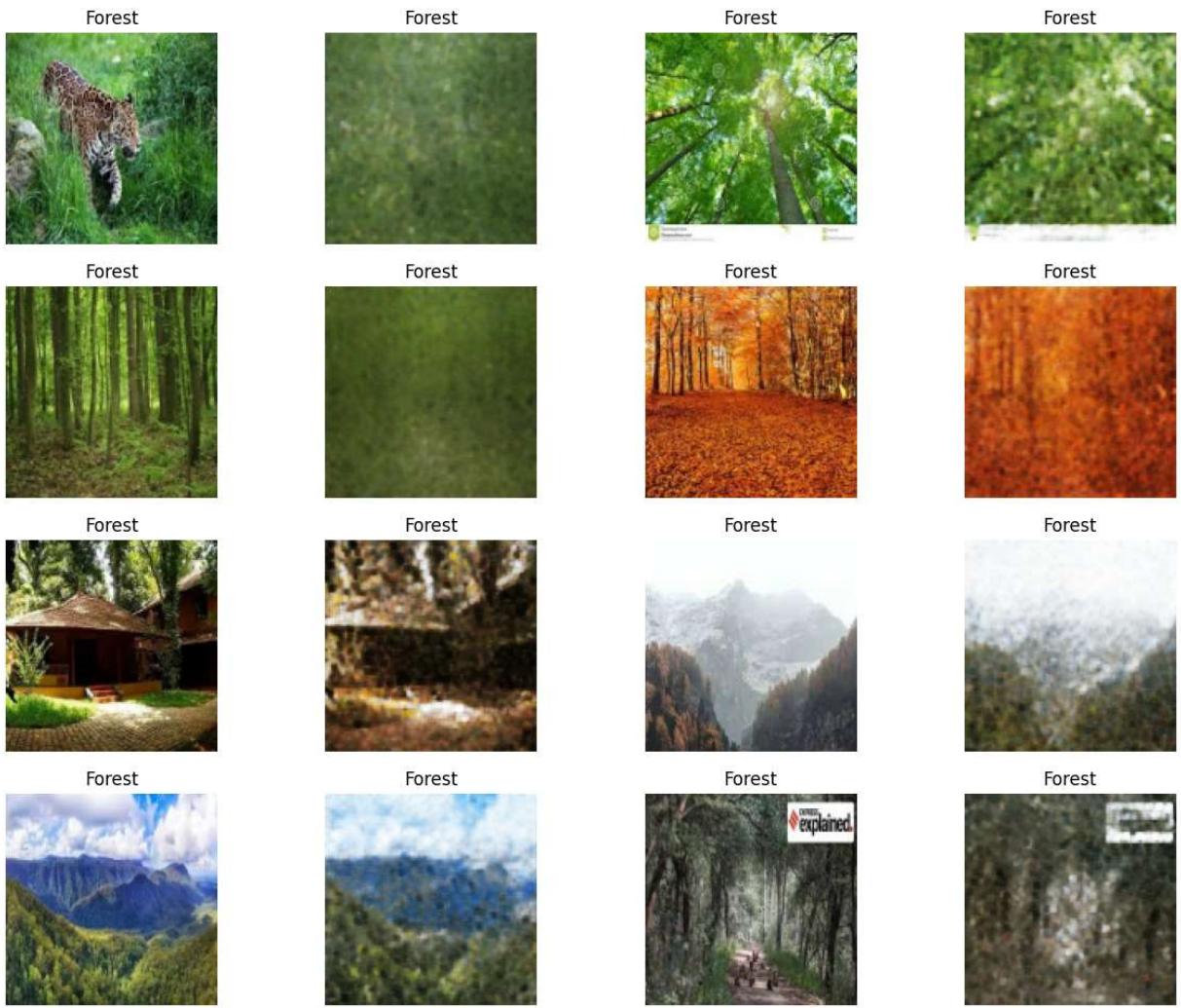
```
120/120 [=====] - 24s 197ms/step - loss: 39.4915 - reconstruction_error: 22.7121 - regularization_error: 16.7794 - val_loss: 69.2133 - val_reconstruction_error: 54.4247 - val_regularization_error: 14.7886
Epoch 812/1000
120/120 [=====] - 23s 192ms/step - loss: 39.0999 - reconstruction_error: 22.4650 - regularization_error: 16.6348 - val_loss: 69.4507 - val_reconstruction_error: 54.5410 - val_regularization_error: 14.9097
Epoch 813/1000
120/120 [=====] - 20s 163ms/step - loss: 39.0765 - reconstruction_error: 22.4128 - regularization_error: 16.6637 - val_loss: 69.8889 - val_reconstruction_error: 54.9037 - val_regularization_error: 14.9852
Epoch 814/1000
120/120 [=====] - 21s 169ms/step - loss: 39.1334 - reconstruction_error: 22.4013 - regularization_error: 16.7320 - val_loss: 70.5148 - val_reconstruction_error: 55.6325 - val_regularization_error: 14.8823
Epoch 815/1000
120/120 [=====] - 24s 198ms/step - loss: 39.0454 - reconstruction_error: 22.4258 - regularization_error: 16.6195 - val_loss: 70.0936 - val_reconstruction_error: 54.2148 - val_regularization_error: 15.8788
Epoch 816/1000
120/120 [=====] - 25s 203ms/step - loss: 39.0967 - reconstruction_error: 22.4231 - regularization_error: 16.6735 - val_loss: 70.0396 - val_reconstruction_error: 55.1677 - val_regularization_error: 14.8719
Epoch 817/1000
120/120 [=====] - 23s 192ms/step - loss: 39.2046 - reconstruction_error: 22.4634 - regularization_error: 16.7412 - val_loss: 68.9206 - val_reconstruction_error: 54.6362 - val_regularization_error: 14.2844
Epoch 818/1000
120/120 [=====] - 26s 217ms/step - loss: 39.0169 - reconstruction_error: 22.4143 - regularization_error: 16.6025 - val_loss: 70.7592 - val_reconstruction_error: 55.2320 - val_regularization_error: 15.5271
Epoch 819/1000
120/120 [=====] - 23s 188ms/step - loss: 39.1674 - reconstruction_error: 22.5230 - regularization_error: 16.6444 - val_loss: 68.9087 - val_reconstruction_error: 54.1358 - val_regularization_error: 14.7729
Epoch 820/1000
120/120 [=====] - 26s 217ms/step - loss: 39.1354 - reconstruction_error: 22.4611 - regularization_error: 16.6743 - val_loss: 69.3617 - val_reconstruction_error: 54.8922 - val_regularization_error: 14.4694
Epoch 821/1000
120/120 [=====] - ETA: 0s - loss: 39.4000 - reconstruction_error: 22.5510 - regularization_error: 16.8490
[2023-12-02 02:58:43.361867]: Reconstructing images for epoch 821 ...
```



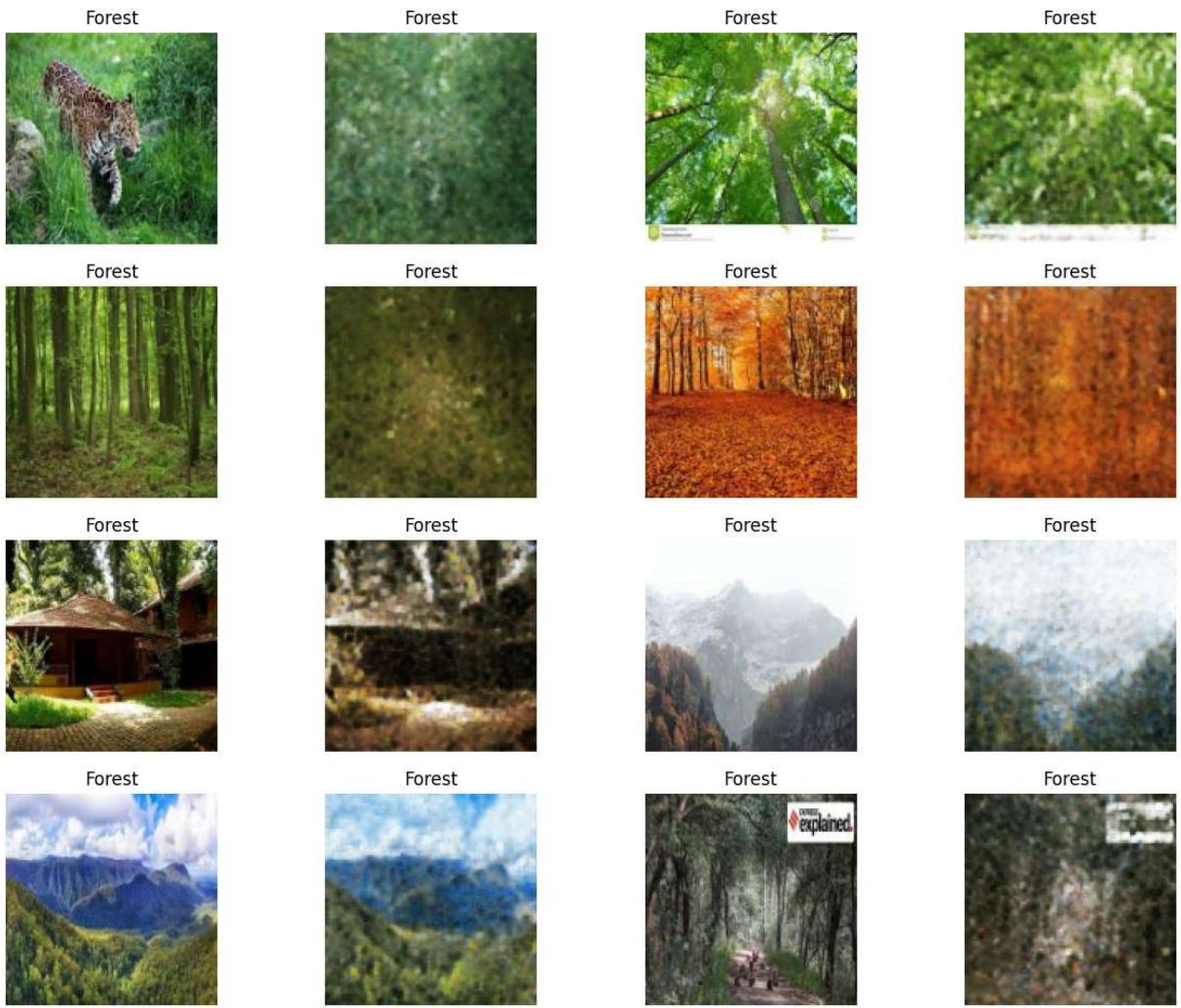
```
120/120 [=====] - 25s 206ms/step - loss: 39.4000 - reconstruction_error: 22.5510 - regularization_error: 16.8490 - val_loss: 69.6508 - val_reconstruction_error: 54.8544 - val_regularization_error: 14.7964
Epoch 822/1000
120/120 [=====] - 21s 175ms/step - loss: 39.1474 - reconstruction_error: 22.4552 - regularization_error: 16.6923 - val_loss: 69.5094 - val_reconstruction_error: 54.6157 - val_regularization_error: 14.8937
Epoch 823/1000
120/120 [=====] - 21s 170ms/step - loss: 39.1584 - reconstruction_error: 22.4131 - regularization_error: 16.7452 - val_loss: 69.2734 - val_reconstruction_error: 55.1736 - val_regularization_error: 14.0997
Epoch 824/1000
120/120 [=====] - 22s 179ms/step - loss: 38.9980 - reconstruction_error: 22.3724 - regularization_error: 16.6256 - val_loss: 70.1153 - val_reconstruction_error: 54.7892 - val_regularization_error: 15.3261
Epoch 825/1000
120/120 [=====] - 21s 175ms/step - loss: 39.1464 - reconstruction_error: 22.4148 - regularization_error: 16.7317 - val_loss: 69.6788 - val_reconstruction_error: 54.8686 - val_regularization_error: 14.8102
Epoch 826/1000
120/120 [=====] - 23s 189ms/step - loss: 39.1278 - reconstruction_error: 22.3694 - regularization_error: 16.7584 - val_loss: 72.1185 - val_reconstruction_error: 56.8055 - val_regularization_error: 15.3131
Epoch 827/1000
120/120 [=====] - 26s 219ms/step - loss: 39.1251 - reconstruction_error: 22.4075 - regularization_error: 16.7177 - val_loss: 69.9823 - val_reconstruction_error: 54.5899 - val_regularization_error: 15.3924
Epoch 828/1000
120/120 [=====] - 22s 187ms/step - loss: 39.0212 - reconstruction_error: 22.3693 - regularization_error: 16.6518 - val_loss: 69.8558 - val_reconstruction_error: 54.6867 - val_regularization_error: 15.1691
Epoch 829/1000
120/120 [=====] - 21s 177ms/step - loss: 39.3129 - reconstruction_error: 22.4547 - regularization_error: 16.8581 - val_loss: 70.1521 - val_reconstruction_error: 55.2150 - val_regularization_error: 14.9372
Epoch 830/1000
120/120 [=====] - 25s 206ms/step - loss: 39.1096 - reconstruction_error: 22.3753 - regularization_error: 16.7344 - val_loss: 69.8082 - val_reconstruction_error: 55.3239 - val_regularization_error: 14.4843
Epoch 831/1000
120/120 [=====] - ETA: 0s - loss: 39.3017 - reconstruction_error: 22.6328 - regularization_error: 16.6689
[2023-12-02 03:02:31.780808]: Reconstructing images for epoch 831 ...
```



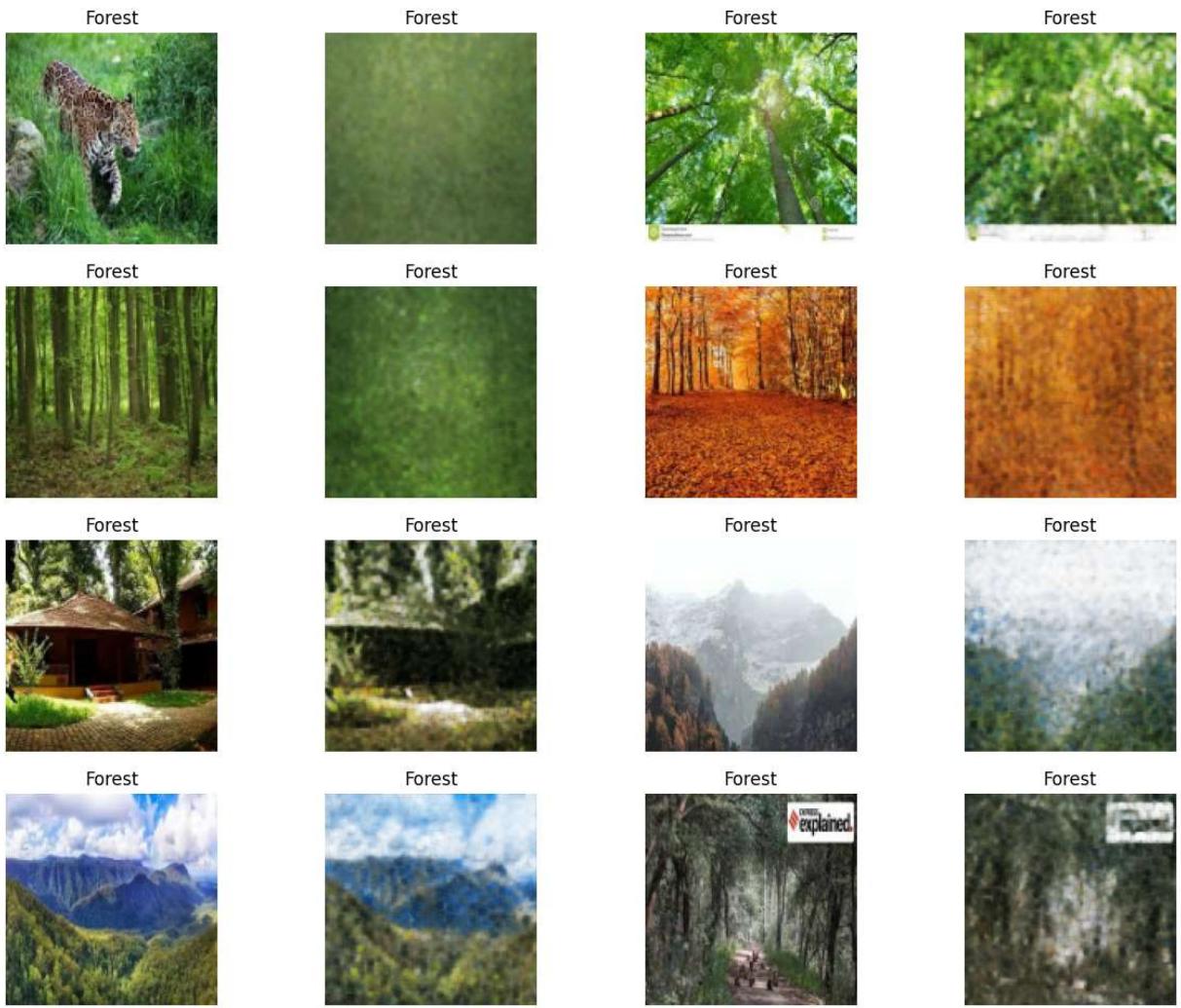
```
120/120 [=====] - 22s 185ms/step - loss: 39.3017 - reconstruction_error: 22.6328 - regularization_error: 16.6689 - val_loss: 71.1711 - val_reconstruction_error: 55.6651 - val_regularization_error: 15.5060
Epoch 832/1000
120/120 [=====] - 25s 205ms/step - loss: 39.1804 - reconstruction_error: 22.3819 - regularization_error: 16.7985 - val_loss: 70.8078 - val_reconstruction_error: 55.6185 - val_regularization_error: 15.1894
Epoch 833/1000
120/120 [=====] - 26s 217ms/step - loss: 39.0093 - reconstruction_error: 22.2837 - regularization_error: 16.7256 - val_loss: 70.3525 - val_reconstruction_error: 55.6563 - val_regularization_error: 14.6962
Epoch 834/1000
120/120 [=====] - 26s 214ms/step - loss: 39.0972 - reconstruction_error: 22.3478 - regularization_error: 16.7494 - val_loss: 69.7480 - val_reconstruction_error: 55.0966 - val_regularization_error: 14.6514
Epoch 835/1000
120/120 [=====] - 20s 166ms/step - loss: 39.1794 - reconstruction_error: 22.4374 - regularization_error: 16.7420 - val_loss: 71.2575 - val_reconstruction_error: 56.2194 - val_regularization_error: 15.0380
Epoch 836/1000
120/120 [=====] - 27s 221ms/step - loss: 39.1335 - reconstruction_error: 22.3426 - regularization_error: 16.7909 - val_loss: 70.0125 - val_reconstruction_error: 54.8242 - val_regularization_error: 15.1883
Epoch 837/1000
120/120 [=====] - 22s 184ms/step - loss: 38.9977 - reconstruction_error: 22.2496 - regularization_error: 16.7481 - val_loss: 69.2497 - val_reconstruction_error: 54.4819 - val_regularization_error: 14.7677
Epoch 838/1000
120/120 [=====] - 22s 183ms/step - loss: 39.1355 - reconstruction_error: 22.4269 - regularization_error: 16.7086 - val_loss: 69.0266 - val_reconstruction_error: 54.3974 - val_regularization_error: 14.6291
Epoch 839/1000
120/120 [=====] - 22s 187ms/step - loss: 39.1577 - reconstruction_error: 22.3333 - regularization_error: 16.8244 - val_loss: 69.6068 - val_reconstruction_error: 54.9017 - val_regularization_error: 14.7052
Epoch 840/1000
120/120 [=====] - 22s 180ms/step - loss: 39.2695 - reconstruction_error: 22.4077 - regularization_error: 16.8618 - val_loss: 71.1781 - val_reconstruction_error: 55.4545 - val_regularization_error: 15.7237
Epoch 841/1000
120/120 [=====] - ETA: 0s - loss: 39.1691 - reconstruction_error: 22.3265 - regularization_error: 16.8426
[2023-12-02 03:06:34.667149]: Reconstructing images for epoch 841 ...
```



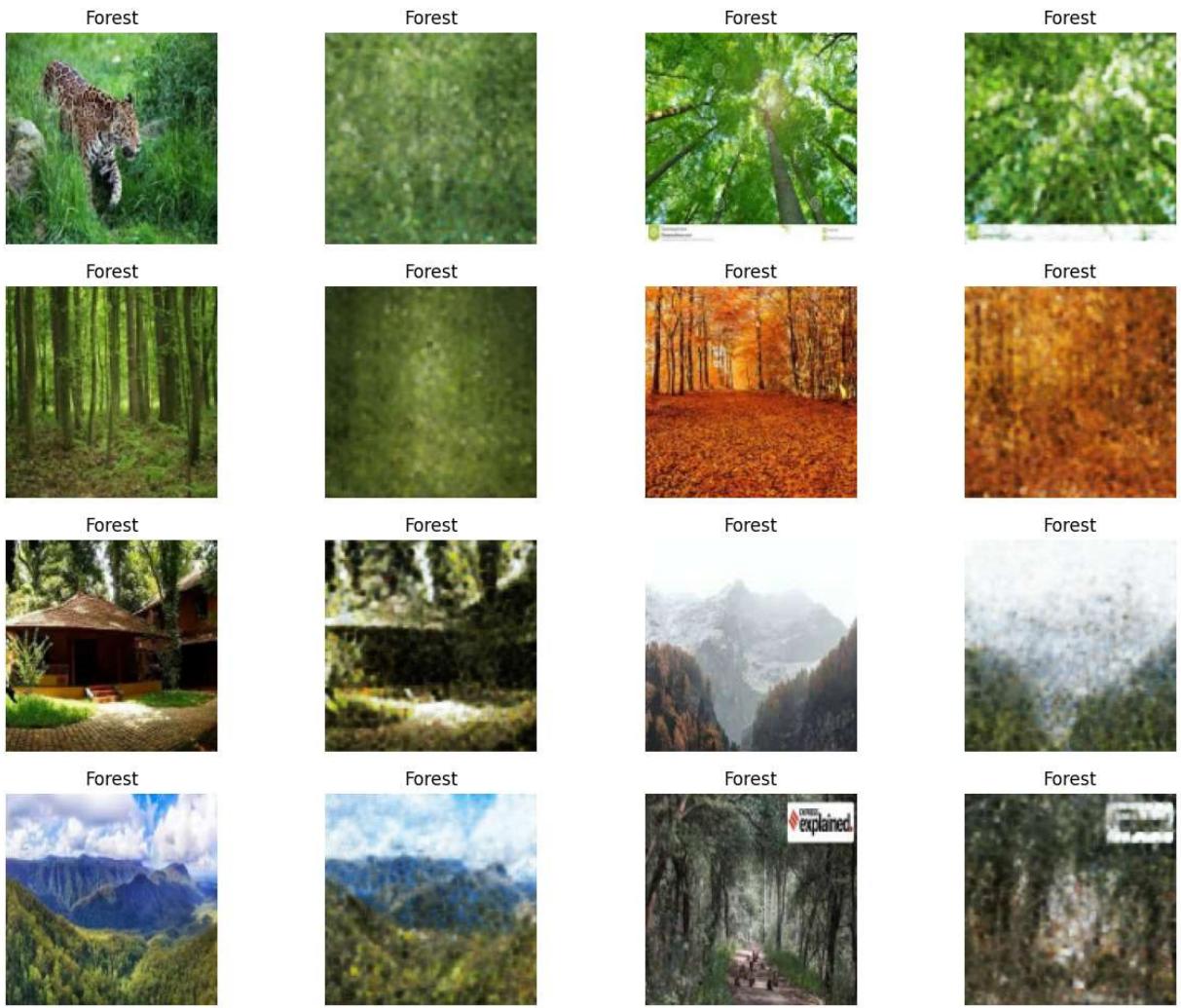
```
120/120 [=====] - 30s 250ms/step - loss: 39.1691 - reconstruction_error: 22.3265 - regularization_error: 16.8426 - val_loss: 70.2816 - val_reconstruction_error: 55.3294 - val_regularization_error: 14.9522
Epoch 842/1000
120/120 [=====] - 20s 171ms/step - loss: 39.0670 - reconstruction_error: 22.3247 - regularization_error: 16.7423 - val_loss: 68.9425 - val_reconstruction_error: 54.2632 - val_regularization_error: 14.6793
Epoch 843/1000
120/120 [=====] - 19s 160ms/step - loss: 39.5015 - reconstruction_error: 22.6337 - regularization_error: 16.8678 - val_loss: 68.9738 - val_reconstruction_error: 53.6510 - val_regularization_error: 15.3228
Epoch 844/1000
120/120 [=====] - 25s 210ms/step - loss: 39.0318 - reconstruction_error: 22.3190 - regularization_error: 16.7128 - val_loss: 69.4841 - val_reconstruction_error: 54.2747 - val_regularization_error: 15.2094
Epoch 845/1000
120/120 [=====] - 24s 202ms/step - loss: 38.9155 - reconstruction_error: 22.2512 - regularization_error: 16.6643 - val_loss: 69.1852 - val_reconstruction_error: 54.7360 - val_regularization_error: 14.4491
Epoch 846/1000
120/120 [=====] - 21s 169ms/step - loss: 39.1172 - reconstruction_error: 22.2769 - regularization_error: 16.8402 - val_loss: 70.2184 - val_reconstruction_error: 54.9731 - val_regularization_error: 15.2453
Epoch 847/1000
120/120 [=====] - 24s 198ms/step - loss: 39.0757 - reconstruction_error: 22.3036 - regularization_error: 16.7721 - val_loss: 69.5678 - val_reconstruction_error: 55.0930 - val_regularization_error: 14.4748
Epoch 848/1000
120/120 [=====] - 21s 172ms/step - loss: 38.9556 - reconstruction_error: 22.2103 - regularization_error: 16.7453 - val_loss: 70.7767 - val_reconstruction_error: 55.7081 - val_regularization_error: 15.0686
Epoch 849/1000
120/120 [=====] - 23s 189ms/step - loss: 38.9691 - reconstruction_error: 22.2207 - regularization_error: 16.7484 - val_loss: 70.1928 - val_reconstruction_error: 55.9906 - val_regularization_error: 14.2022
Epoch 850/1000
120/120 [=====] - 25s 210ms/step - loss: 39.0313 - reconstruction_error: 22.2968 - regularization_error: 16.7346 - val_loss: 70.4808 - val_reconstruction_error: 55.3909 - val_regularization_error: 15.0900
Epoch 851/1000
120/120 [=====] - ETA: 0s - loss: 39.0556 - reconstruction_error: 22.3255 - regularization_error: 16.7301
[2023-12-02 03:10:24.386412]: Reconstructing images for epoch 851 ...
```



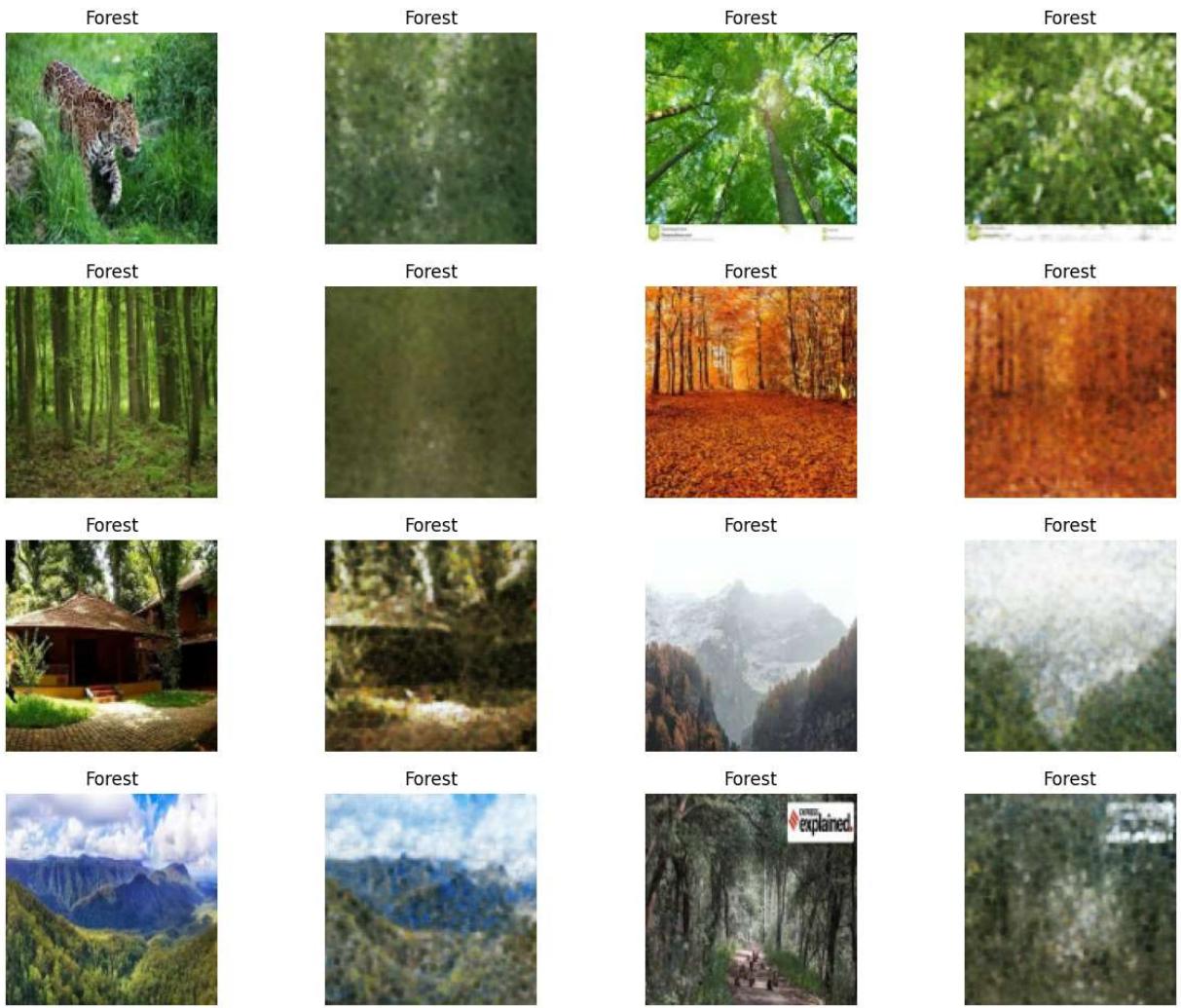
```
120/120 [=====] - 27s 225ms/step - loss: 39.0556 - reconstruction_error: 22.3255 - regularization_error: 16.7301 - val_loss: 70.4419 - val_reconstruction_error: 56.0414 - val_regularization_error: 14.4005
Epoch 852/1000
120/120 [=====] - 22s 183ms/step - loss: 39.0291 - reconstruction_error: 22.1960 - regularization_error: 16.8332 - val_loss: 70.8447 - val_reconstruction_error: 56.3988 - val_regularization_error: 14.4458
Epoch 853/1000
120/120 [=====] - 24s 200ms/step - loss: 38.9233 - reconstruction_error: 22.1620 - regularization_error: 16.7613 - val_loss: 69.7987 - val_reconstruction_error: 54.6847 - val_regularization_error: 15.1140
Epoch 854/1000
120/120 [=====] - 21s 177ms/step - loss: 38.8101 - reconstruction_error: 22.0992 - regularization_error: 16.7109 - val_loss: 70.2310 - val_reconstruction_error: 55.5194 - val_regularization_error: 14.7116
Epoch 855/1000
120/120 [=====] - 23s 192ms/step - loss: 38.7484 - reconstruction_error: 22.1185 - regularization_error: 16.6298 - val_loss: 69.7645 - val_reconstruction_error: 54.2817 - val_regularization_error: 15.4828
Epoch 856/1000
120/120 [=====] - 24s 200ms/step - loss: 39.1693 - reconstruction_error: 22.2720 - regularization_error: 16.8974 - val_loss: 70.5982 - val_reconstruction_error: 55.6082 - val_regularization_error: 14.9900
Epoch 857/1000
120/120 [=====] - 19s 160ms/step - loss: 38.8282 - reconstruction_error: 22.1096 - regularization_error: 16.7186 - val_loss: 69.7810 - val_reconstruction_error: 54.9407 - val_regularization_error: 14.8403
Epoch 858/1000
120/120 [=====] - 23s 190ms/step - loss: 38.9766 - reconstruction_error: 22.1968 - regularization_error: 16.7798 - val_loss: 68.8773 - val_reconstruction_error: 54.8585 - val_regularization_error: 14.0188
Epoch 859/1000
120/120 [=====] - 23s 187ms/step - loss: 38.7917 - reconstruction_error: 22.0347 - regularization_error: 16.7570 - val_loss: 69.6024 - val_reconstruction_error: 55.0738 - val_regularization_error: 14.5287
Epoch 860/1000
120/120 [=====] - 18s 152ms/step - loss: 38.8976 - reconstruction_error: 22.1531 - regularization_error: 16.7445 - val_loss: 69.2533 - val_reconstruction_error: 54.7688 - val_regularization_error: 14.4845
Epoch 861/1000
120/120 [=====] - ETA: 0s - loss: 38.6299 - reconstruction_error: 22.0207 - regularization_error: 16.6093
[2023-12-02 03:14:11.806737]: Reconstructing images for epoch 861 ...
```



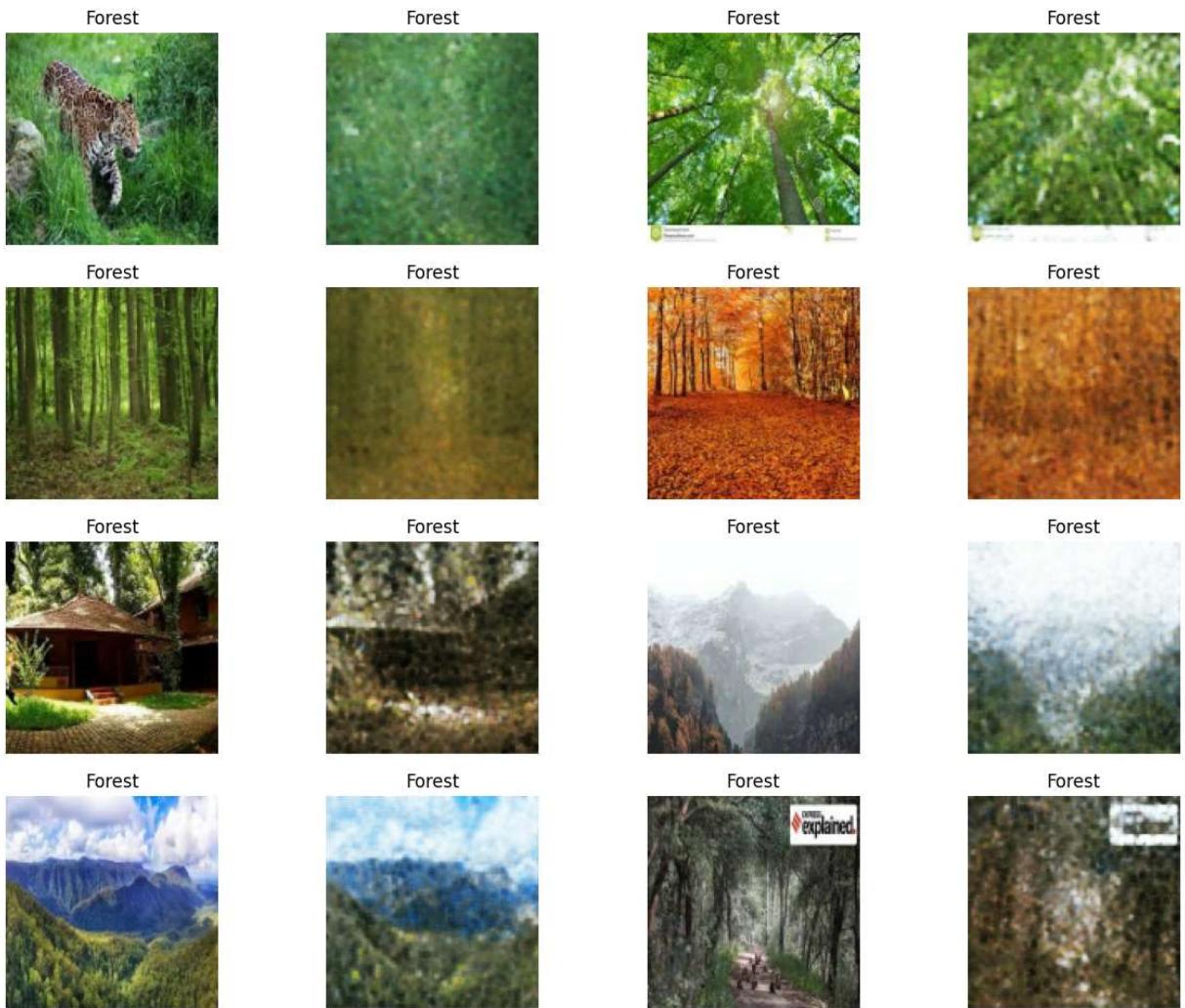
```
120/120 [=====] - 28s 224ms/step - loss: 38.6299 - reconstruction_error: 22.0207 - regularization_error: 16.6093 - val_loss: 70.6522 - val_reconstruction_error: 55.1628 - val_regularization_error: 15.4894
Epoch 862/1000
120/120 [=====] - 25s 203ms/step - loss: 38.9282 - reconstruction_error: 22.1534 - regularization_error: 16.7748 - val_loss: 71.0555 - val_reconstruction_error: 55.5266 - val_regularization_error: 15.5289
Epoch 863/1000
120/120 [=====] - 20s 170ms/step - loss: 38.8030 - reconstruction_error: 22.1245 - regularization_error: 16.6785 - val_loss: 69.4107 - val_reconstruction_error: 54.8530 - val_regularization_error: 14.5577
Epoch 864/1000
120/120 [=====] - 24s 200ms/step - loss: 38.9290 - reconstruction_error: 22.1886 - regularization_error: 16.7405 - val_loss: 70.7115 - val_reconstruction_error: 55.1144 - val_regularization_error: 15.5971
Epoch 865/1000
120/120 [=====] - 23s 189ms/step - loss: 38.9602 - reconstruction_error: 22.2737 - regularization_error: 16.6865 - val_loss: 70.6143 - val_reconstruction_error: 55.3790 - val_regularization_error: 15.2353
Epoch 866/1000
120/120 [=====] - 24s 196ms/step - loss: 39.1285 - reconstruction_error: 22.2670 - regularization_error: 16.8615 - val_loss: 69.8480 - val_reconstruction_error: 54.7351 - val_regularization_error: 15.1129
Epoch 867/1000
120/120 [=====] - 21s 173ms/step - loss: 38.9610 - reconstruction_error: 22.1843 - regularization_error: 16.7767 - val_loss: 70.4568 - val_reconstruction_error: 54.9993 - val_regularization_error: 15.4575
Epoch 868/1000
120/120 [=====] - 21s 172ms/step - loss: 39.2612 - reconstruction_error: 22.3414 - regularization_error: 16.9199 - val_loss: 69.7877 - val_reconstruction_error: 55.5812 - val_regularization_error: 14.2066
Epoch 869/1000
120/120 [=====] - 30s 246ms/step - loss: 39.0098 - reconstruction_error: 22.2250 - regularization_error: 16.7847 - val_loss: 68.9101 - val_reconstruction_error: 54.3552 - val_regularization_error: 14.5549
Epoch 870/1000
120/120 [=====] - 24s 199ms/step - loss: 38.8707 - reconstruction_error: 22.0537 - regularization_error: 16.8170 - val_loss: 70.8669 - val_reconstruction_error: 56.2763 - val_regularization_error: 14.5906
Epoch 871/1000
120/120 [=====] - ETA: 0s - loss: 38.7641 - reconstruction_error: 22.0388 - regularization_error: 16.7253
[2023-12-02 03:18:09.196368]: Reconstructing images for epoch 871 ...
```



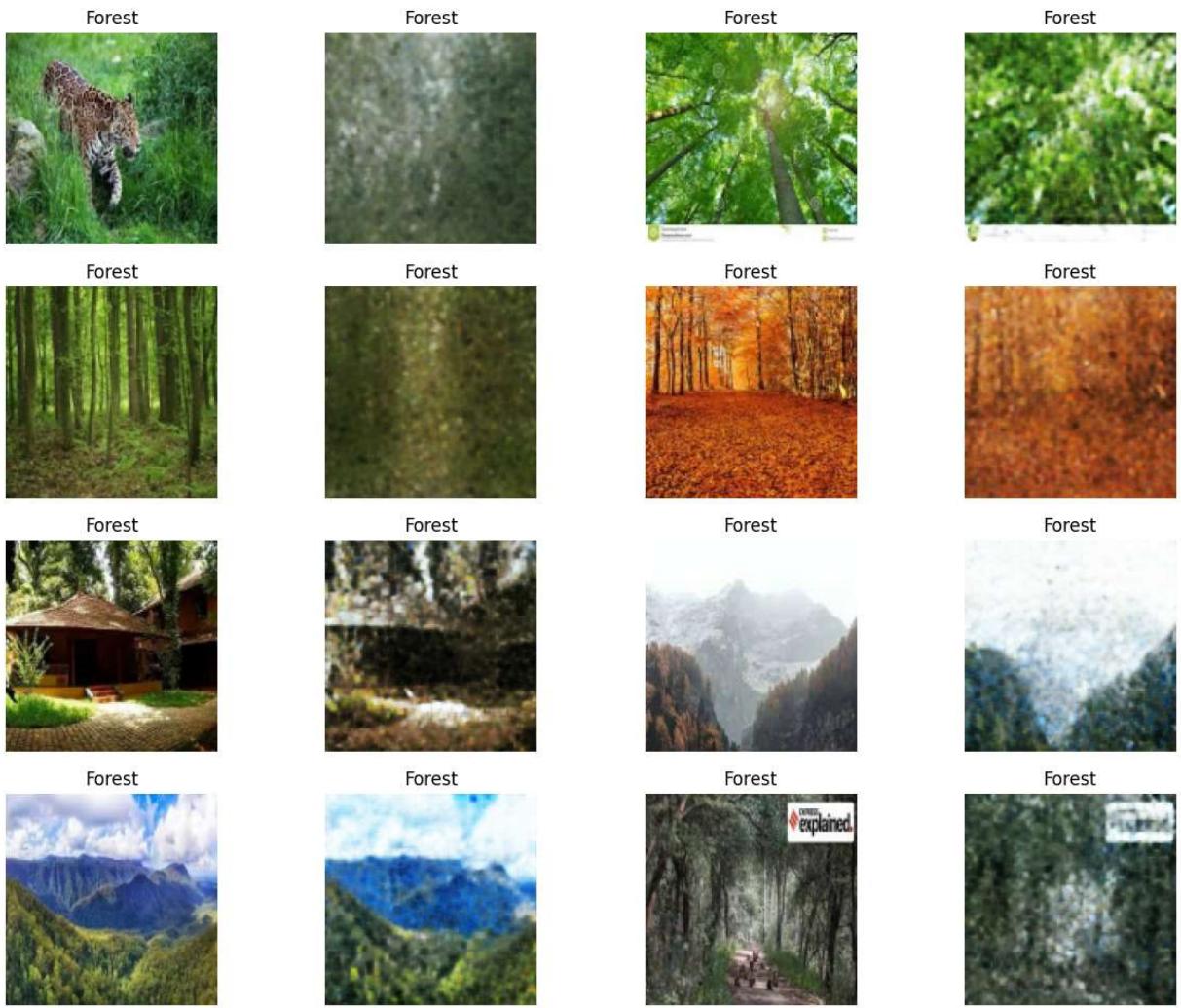
```
120/120 [=====] - 25s 212ms/step - loss: 38.7641 - reconstruction_error: 22.0388 - regularization_error: 16.7253 - val_loss: 71.4068 - val_reconstruction_error: 55.7553 - val_regularization_error: 15.6516
Epoch 872/1000
120/120 [=====] - 22s 181ms/step - loss: 38.8211 - reconstruction_error: 22.0583 - regularization_error: 16.7628 - val_loss: 69.8267 - val_reconstruction_error: 54.6891 - val_regularization_error: 15.1377
Epoch 873/1000
120/120 [=====] - 22s 181ms/step - loss: 38.8883 - reconstruction_error: 22.1237 - regularization_error: 16.7647 - val_loss: 70.3647 - val_reconstruction_error: 55.2287 - val_regularization_error: 15.1360
Epoch 874/1000
120/120 [=====] - 21s 173ms/step - loss: 38.8547 - reconstruction_error: 22.0818 - regularization_error: 16.7730 - val_loss: 70.5145 - val_reconstruction_error: 55.0749 - val_regularization_error: 15.4396
Epoch 875/1000
120/120 [=====] - 22s 185ms/step - loss: 38.8867 - reconstruction_error: 22.1548 - regularization_error: 16.7319 - val_loss: 70.3932 - val_reconstruction_error: 55.5414 - val_regularization_error: 14.8518
Epoch 876/1000
120/120 [=====] - 25s 207ms/step - loss: 38.8736 - reconstruction_error: 22.1146 - regularization_error: 16.7590 - val_loss: 70.7739 - val_reconstruction_error: 55.2121 - val_regularization_error: 15.5618
Epoch 877/1000
120/120 [=====] - 21s 173ms/step - loss: 38.8672 - reconstruction_error: 22.0808 - regularization_error: 16.7865 - val_loss: 69.9739 - val_reconstruction_error: 55.3741 - val_regularization_error: 14.5998
Epoch 878/1000
120/120 [=====] - 27s 222ms/step - loss: 38.8511 - reconstruction_error: 22.0748 - regularization_error: 16.7763 - val_loss: 70.0265 - val_reconstruction_error: 55.5824 - val_regularization_error: 14.4441
Epoch 879/1000
120/120 [=====] - 24s 202ms/step - loss: 38.8018 - reconstruction_error: 22.0856 - regularization_error: 16.7162 - val_loss: 70.9614 - val_reconstruction_error: 56.3101 - val_regularization_error: 14.6513
Epoch 880/1000
120/120 [=====] - 20s 166ms/step - loss: 38.7395 - reconstruction_error: 22.0090 - regularization_error: 16.7305 - val_loss: 69.3396 - val_reconstruction_error: 54.5318 - val_regularization_error: 14.8078
Epoch 881/1000
120/120 [=====] - ETA: 0s - loss: 38.9727 - reconstruction_error: 22.1530 - regularization_error: 16.8196
[2023-12-02 03:21:59.806647]: Reconstructing images for epoch 881 ...
```



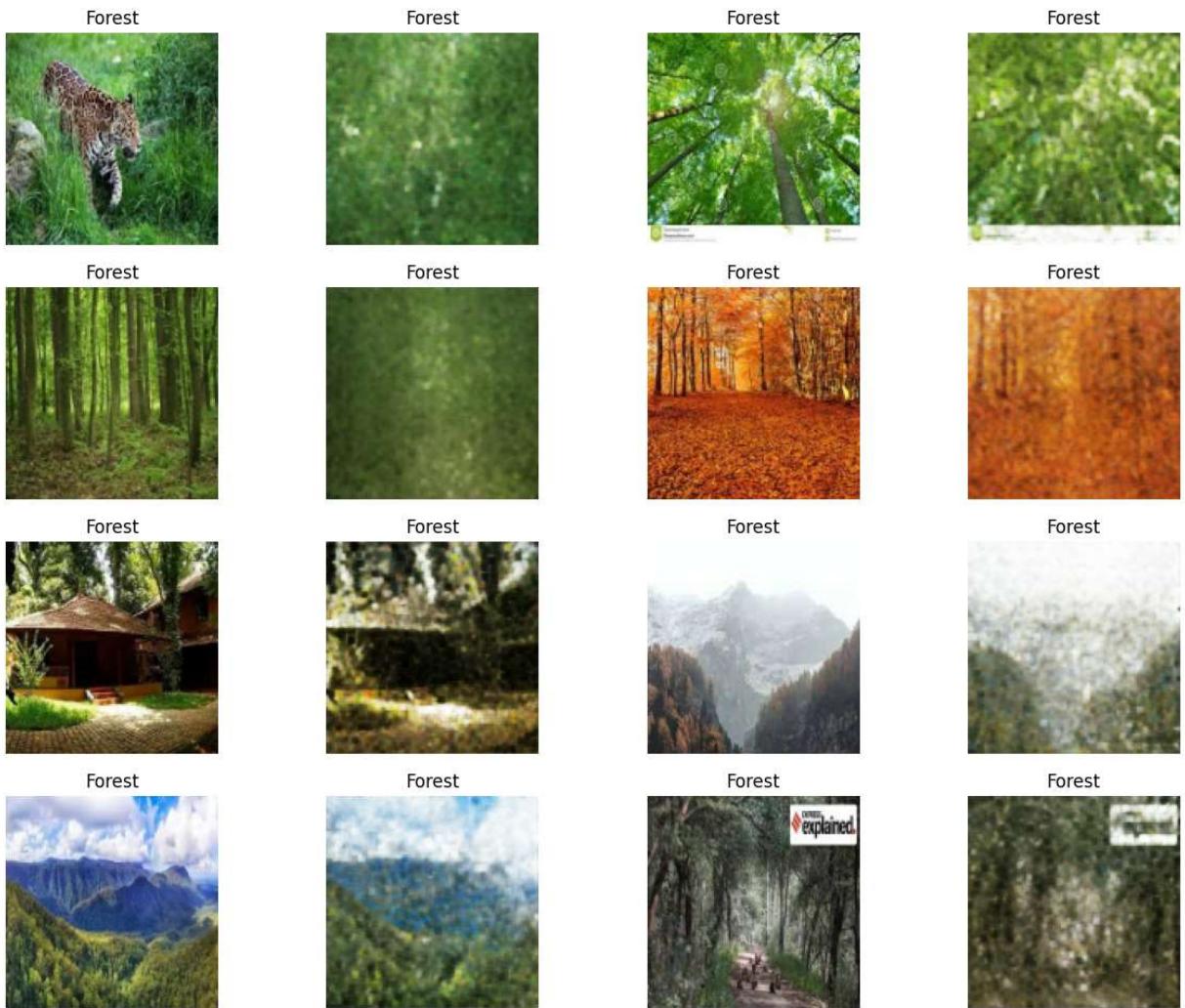
```
120/120 [=====] - 25s 209ms/step - loss: 38.9727 - reconstruction_error: 22.1530 - regularization_error: 16.8196 - val_loss: 68.9510 - val_reconstruction_error: 54.3790 - val_regularization_error: 14.5720
Epoch 882/1000
120/120 [=====] - 26s 212ms/step - loss: 38.6491 - reconstruction_error: 21.9755 - regularization_error: 16.6736 - val_loss: 69.6965 - val_reconstruction_error: 54.9248 - val_regularization_error: 14.7717
Epoch 883/1000
120/120 [=====] - 24s 198ms/step - loss: 38.8631 - reconstruction_error: 22.0979 - regularization_error: 16.7652 - val_loss: 70.4598 - val_reconstruction_error: 54.9784 - val_regularization_error: 15.4814
Epoch 884/1000
120/120 [=====] - 19s 161ms/step - loss: 38.7737 - reconstruction_error: 21.8990 - regularization_error: 16.8747 - val_loss: 69.2545 - val_reconstruction_error: 54.6029 - val_regularization_error: 14.6516
Epoch 885/1000
120/120 [=====] - 19s 162ms/step - loss: 38.8056 - reconstruction_error: 22.0184 - regularization_error: 16.7872 - val_loss: 70.4671 - val_reconstruction_error: 54.8716 - val_regularization_error: 15.5954
Epoch 886/1000
120/120 [=====] - 21s 175ms/step - loss: 38.7324 - reconstruction_error: 21.9656 - regularization_error: 16.7669 - val_loss: 69.8144 - val_reconstruction_error: 55.2849 - val_regularization_error: 14.5295
Epoch 887/1000
120/120 [=====] - 24s 202ms/step - loss: 38.8777 - reconstruction_error: 21.9603 - regularization_error: 16.9174 - val_loss: 71.3010 - val_reconstruction_error: 56.0522 - val_regularization_error: 15.2489
Epoch 888/1000
120/120 [=====] - 21s 173ms/step - loss: 38.8070 - reconstruction_error: 21.9678 - regularization_error: 16.8392 - val_loss: 71.2664 - val_reconstruction_error: 56.5572 - val_regularization_error: 14.7092
Epoch 889/1000
120/120 [=====] - 23s 190ms/step - loss: 38.6786 - reconstruction_error: 21.9646 - regularization_error: 16.7140 - val_loss: 69.8239 - val_reconstruction_error: 54.9226 - val_regularization_error: 14.9014
Epoch 890/1000
120/120 [=====] - 21s 177ms/step - loss: 38.8342 - reconstruction_error: 21.9137 - regularization_error: 16.9205 - val_loss: 69.4245 - val_reconstruction_error: 55.0090 - val_regularization_error: 14.4155
Epoch 891/1000
120/120 [=====] - ETA: 0s - loss: 38.6924 - reconstruction_error: 21.9849 - regularization_error: 16.7074
[2023-12-02 03:25:43.868659]: Reconstructing images for epoch 891 ...
```



```
120/120 [=====] - 22s 186ms/step - loss: 38.6924 - reconstruction_error: 21.9849 - regularization_error: 16.7074 - val_loss: 70.7342 - val_reconstruction_error: 55.6480 - val_regularization_error: 15.0862
Epoch 892/1000
120/120 [=====] - 20s 163ms/step - loss: 38.5853 - reconstruction_error: 21.8996 - regularization_error: 16.6857 - val_loss: 70.1814 - val_reconstruction_error: 55.5752 - val_regularization_error: 14.6063
Epoch 893/1000
120/120 [=====] - 21s 173ms/step - loss: 38.5730 - reconstruction_error: 21.8974 - regularization_error: 16.6757 - val_loss: 70.4182 - val_reconstruction_error: 54.9224 - val_regularization_error: 15.4958
Epoch 894/1000
120/120 [=====] - 24s 204ms/step - loss: 38.6274 - reconstruction_error: 21.8604 - regularization_error: 16.7670 - val_loss: 70.3178 - val_reconstruction_error: 54.8291 - val_regularization_error: 15.4887
Epoch 895/1000
120/120 [=====] - 22s 186ms/step - loss: 38.8155 - reconstruction_error: 22.0647 - regularization_error: 16.7508 - val_loss: 70.8213 - val_reconstruction_error: 55.5051 - val_regularization_error: 15.3162
Epoch 896/1000
120/120 [=====] - 24s 202ms/step - loss: 38.6168 - reconstruction_error: 21.8641 - regularization_error: 16.7527 - val_loss: 70.3764 - val_reconstruction_error: 56.0215 - val_regularization_error: 14.3549
Epoch 897/1000
120/120 [=====] - 18s 151ms/step - loss: 38.9776 - reconstruction_error: 22.0805 - regularization_error: 16.8971 - val_loss: 71.9256 - val_reconstruction_error: 55.6874 - val_regularization_error: 16.2382
Epoch 898/1000
120/120 [=====] - 22s 183ms/step - loss: 38.6912 - reconstruction_error: 21.8762 - regularization_error: 16.8151 - val_loss: 69.5117 - val_reconstruction_error: 54.7442 - val_regularization_error: 14.7675
Epoch 899/1000
120/120 [=====] - 22s 183ms/step - loss: 38.8577 - reconstruction_error: 21.9873 - regularization_error: 16.8704 - val_loss: 71.0643 - val_reconstruction_error: 55.5953 - val_regularization_error: 15.4690
Epoch 900/1000
120/120 [=====] - 21s 174ms/step - loss: 38.7890 - reconstruction_error: 21.8877 - regularization_error: 16.9013 - val_loss: 71.8639 - val_reconstruction_error: 55.7605 - val_regularization_error: 16.1034
Epoch 901/1000
120/120 [=====] - ETA: 0s - loss: 38.8738 - reconstruction_error: 21.9953 - regularization_error: 16.8784
[2023-12-02 03:29:28.314433]: Reconstructing images for epoch 901 ...
```



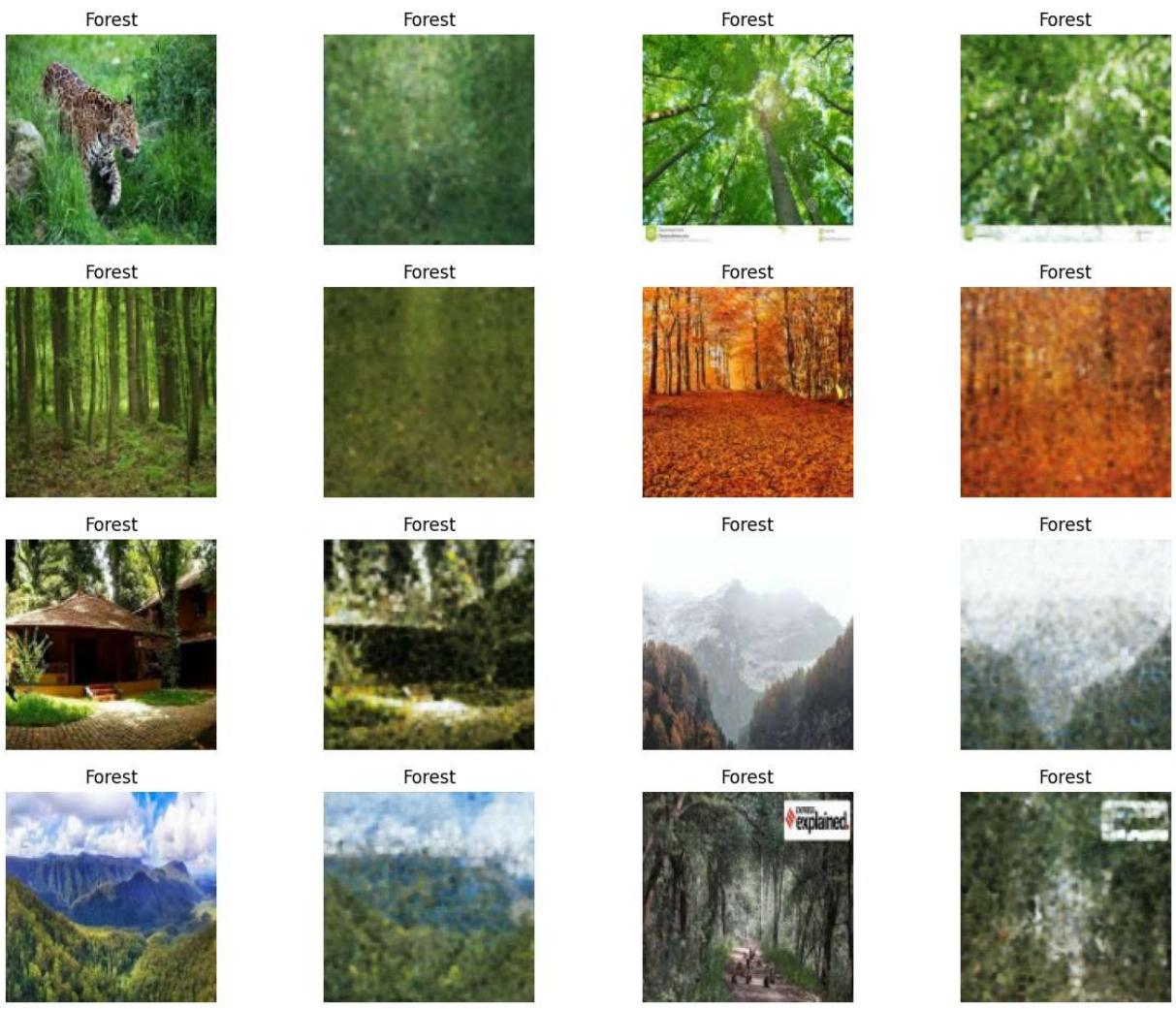
```
120/120 [=====] - 27s 221ms/step - loss: 38.8738 - reconstruction_error: 21.9953 - regularization_error: 16.8784 - val_loss: 75.4612 - val_reconstruction_error: 58.3646 - val_regularization_error: 17.0967
Epoch 902/1000
120/120 [=====] - 23s 196ms/step - loss: 38.9140 - reconstruction_error: 22.0207 - regularization_error: 16.8933 - val_loss: 70.8312 - val_reconstruction_error: 55.3949 - val_regularization_error: 15.4362
Epoch 903/1000
120/120 [=====] - 21s 171ms/step - loss: 38.8309 - reconstruction_error: 21.9741 - regularization_error: 16.8568 - val_loss: 69.7402 - val_reconstruction_error: 55.4085 - val_regularization_error: 14.3317
Epoch 904/1000
120/120 [=====] - 21s 177ms/step - loss: 38.7233 - reconstruction_error: 21.9180 - regularization_error: 16.8054 - val_loss: 69.7497 - val_reconstruction_error: 54.9992 - val_regularization_error: 14.7505
Epoch 905/1000
120/120 [=====] - 26s 217ms/step - loss: 38.4979 - reconstruction_error: 21.7605 - regularization_error: 16.7374 - val_loss: 70.1429 - val_reconstruction_error: 55.2046 - val_regularization_error: 14.9383
Epoch 906/1000
120/120 [=====] - 25s 205ms/step - loss: 38.6213 - reconstruction_error: 21.7845 - regularization_error: 16.8368 - val_loss: 69.9635 - val_reconstruction_error: 55.1602 - val_regularization_error: 14.8033
Epoch 907/1000
120/120 [=====] - 24s 202ms/step - loss: 38.5575 - reconstruction_error: 21.8953 - regularization_error: 16.6621 - val_loss: 70.5709 - val_reconstruction_error: 56.2905 - val_regularization_error: 14.2805
Epoch 908/1000
120/120 [=====] - 19s 160ms/step - loss: 38.6527 - reconstruction_error: 21.7922 - regularization_error: 16.8606 - val_loss: 69.3486 - val_reconstruction_error: 54.1386 - val_regularization_error: 15.2100
Epoch 909/1000
120/120 [=====] - 22s 180ms/step - loss: 38.6712 - reconstruction_error: 21.7437 - regularization_error: 16.9275 - val_loss: 70.6803 - val_reconstruction_error: 55.6881 - val_regularization_error: 14.9921
Epoch 910/1000
120/120 [=====] - 23s 194ms/step - loss: 38.7624 - reconstruction_error: 21.9700 - regularization_error: 16.7924 - val_loss: 70.9620 - val_reconstruction_error: 55.5797 - val_regularization_error: 15.3823
Epoch 911/1000
120/120 [=====] - ETA: 0s - loss: 38.5623 - reconstruction_error: 21.7720 - regularization_error: 16.7903
[2023-12-02 03:33:17.179025]: Reconstructing images for epoch 911 ...
```



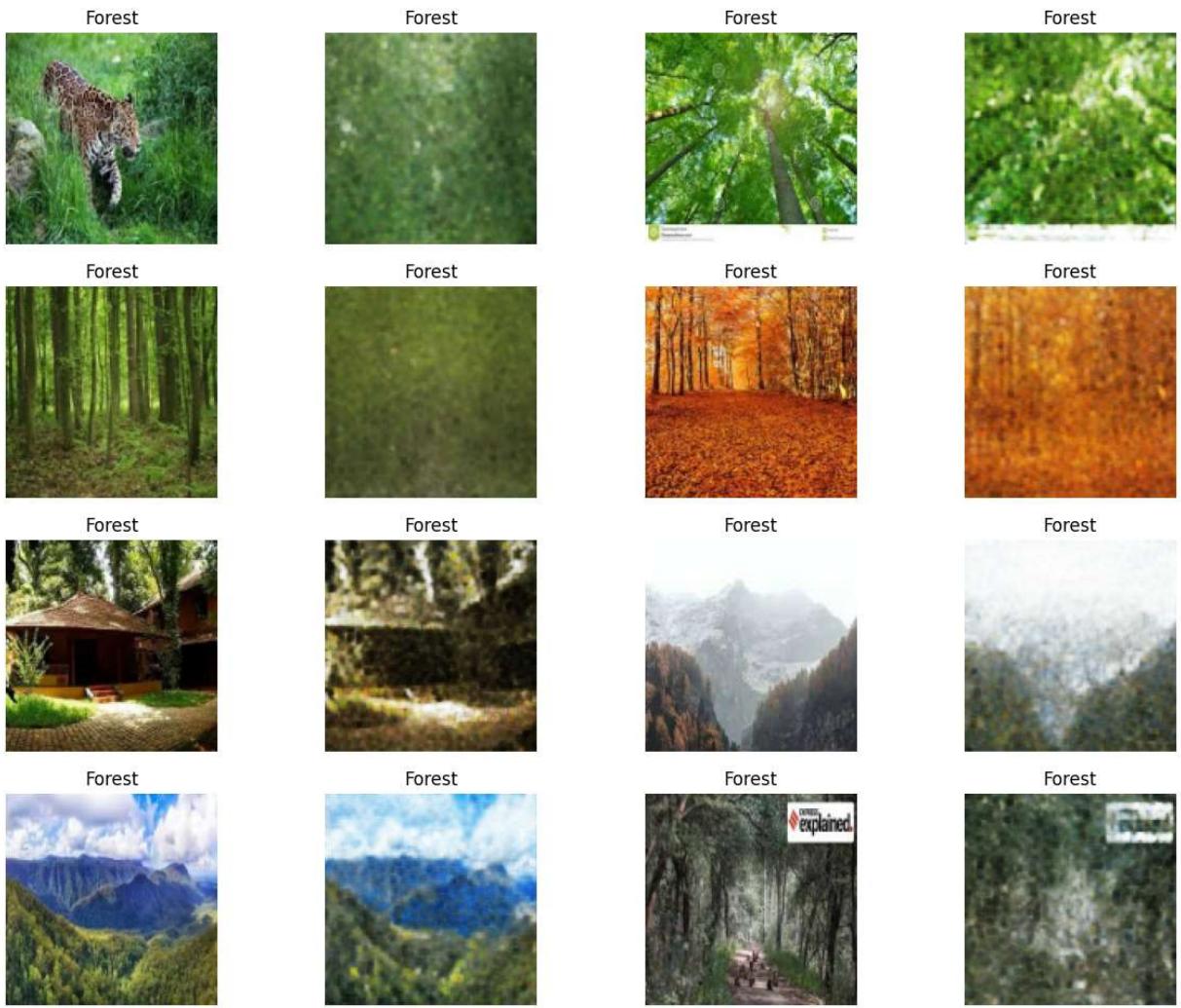
```
120/120 [=====] - 22s 181ms/step - loss: 38.5623 - reconstruction_error: 21.7720 - regularization_error: 16.7903 - val_loss: 70.6793 - val_reconstruction_error: 55.7081 - val_regularization_error: 14.9712
Epoch 912/1000
120/120 [=====] - 19s 157ms/step - loss: 38.7470 - reconstruction_error: 21.9477 - regularization_error: 16.7993 - val_loss: 70.8727 - val_reconstruction_error: 55.7090 - val_regularization_error: 15.1637
Epoch 913/1000
120/120 [=====] - 23s 193ms/step - loss: 38.6293 - reconstruction_error: 21.7998 - regularization_error: 16.8295 - val_loss: 69.6041 - val_reconstruction_error: 55.0411 - val_regularization_error: 14.5629
Epoch 914/1000
120/120 [=====] - 23s 192ms/step - loss: 38.4631 - reconstruction_error: 21.8330 - regularization_error: 16.6301 - val_loss: 70.3831 - val_reconstruction_error: 54.8057 - val_regularization_error: 15.5774
Epoch 915/1000
120/120 [=====] - 21s 174ms/step - loss: 38.6869 - reconstruction_error: 21.8522 - regularization_error: 16.8347 - val_loss: 69.8337 - val_reconstruction_error: 55.2485 - val_regularization_error: 14.5852
Epoch 916/1000
120/120 [=====] - 22s 183ms/step - loss: 38.6115 - reconstruction_error: 21.8217 - regularization_error: 16.7898 - val_loss: 70.3182 - val_reconstruction_error: 55.0614 - val_regularization_error: 15.2568
Epoch 917/1000
120/120 [=====] - 24s 200ms/step - loss: 38.3955 - reconstruction_error: 21.6453 - regularization_error: 16.7502 - val_loss: 70.6908 - val_reconstruction_error: 55.9807 - val_regularization_error: 14.7101
Epoch 918/1000
120/120 [=====] - 22s 178ms/step - loss: 38.6647 - reconstruction_error: 21.8256 - regularization_error: 16.8392 - val_loss: 70.0663 - val_reconstruction_error: 55.2532 - val_regularization_error: 14.8131
Epoch 919/1000
120/120 [=====] - 24s 200ms/step - loss: 38.6016 - reconstruction_error: 21.8654 - regularization_error: 16.7362 - val_loss: 69.6206 - val_reconstruction_error: 54.8025 - val_regularization_error: 14.8181
Epoch 920/1000
120/120 [=====] - 24s 195ms/step - loss: 38.8185 - reconstruction_error: 21.8709 - regularization_error: 16.9476 - val_loss: 70.1810 - val_reconstruction_error: 55.1417 - val_regularization_error: 15.0393
Epoch 921/1000
120/120 [=====] - ETA: 0s - loss: 38.4108 - reconstruction_error: 21.6939 - regularization_error: 16.7168
[2023-12-02 03:37:05.042243]: Reconstructing images for epoch 921 ...
```



```
120/120 [=====] - 24s 199ms/step - loss: 38.4108 - reconstruction_error: 21.6939 - regularization_error: 16.7168 - val_loss: 69.3386 - val_reconstruction_error: 54.6867 - val_regularization_error: 14.6520
Epoch 922/1000
120/120 [=====] - 26s 215ms/step - loss: 38.6290 - reconstruction_error: 21.7865 - regularization_error: 16.8425 - val_loss: 70.2331 - val_reconstruction_error: 54.9772 - val_regularization_error: 15.2559
Epoch 923/1000
120/120 [=====] - 22s 180ms/step - loss: 38.5496 - reconstruction_error: 21.7046 - regularization_error: 16.8450 - val_loss: 69.6630 - val_reconstruction_error: 54.4706 - val_regularization_error: 15.1924
Epoch 924/1000
120/120 [=====] - 24s 198ms/step - loss: 38.6461 - reconstruction_error: 21.6710 - regularization_error: 16.9751 - val_loss: 70.9555 - val_reconstruction_error: 55.2311 - val_regularization_error: 15.7244
Epoch 925/1000
120/120 [=====] - 26s 216ms/step - loss: 38.6653 - reconstruction_error: 21.8264 - regularization_error: 16.8389 - val_loss: 69.7259 - val_reconstruction_error: 54.9173 - val_regularization_error: 14.8086
Epoch 926/1000
120/120 [=====] - 21s 178ms/step - loss: 38.6008 - reconstruction_error: 21.9144 - regularization_error: 16.6864 - val_loss: 71.9443 - val_reconstruction_error: 56.2749 - val_regularization_error: 15.6695
Epoch 927/1000
120/120 [=====] - 20s 161ms/step - loss: 38.3875 - reconstruction_error: 21.6299 - regularization_error: 16.7577 - val_loss: 69.0303 - val_reconstruction_error: 55.1321 - val_regularization_error: 13.8982
Epoch 928/1000
120/120 [=====] - 25s 210ms/step - loss: 38.4276 - reconstruction_error: 21.7073 - regularization_error: 16.7203 - val_loss: 68.9001 - val_reconstruction_error: 54.4488 - val_regularization_error: 14.4512
Epoch 929/1000
120/120 [=====] - 18s 150ms/step - loss: 38.4614 - reconstruction_error: 21.6401 - regularization_error: 16.8213 - val_loss: 70.4083 - val_reconstruction_error: 55.6495 - val_regularization_error: 14.7588
Epoch 930/1000
120/120 [=====] - 19s 160ms/step - loss: 38.8046 - reconstruction_error: 21.9041 - regularization_error: 16.9005 - val_loss: 70.8383 - val_reconstruction_error: 55.8835 - val_regularization_error: 14.9547
Epoch 931/1000
120/120 [=====] - ETA: 0s - loss: 38.5396 - reconstruction_error: 21.6847 - regularization_error: 16.8549
[2023-12-02 03:40:54.782244]: Reconstructing images for epoch 931 ...
```



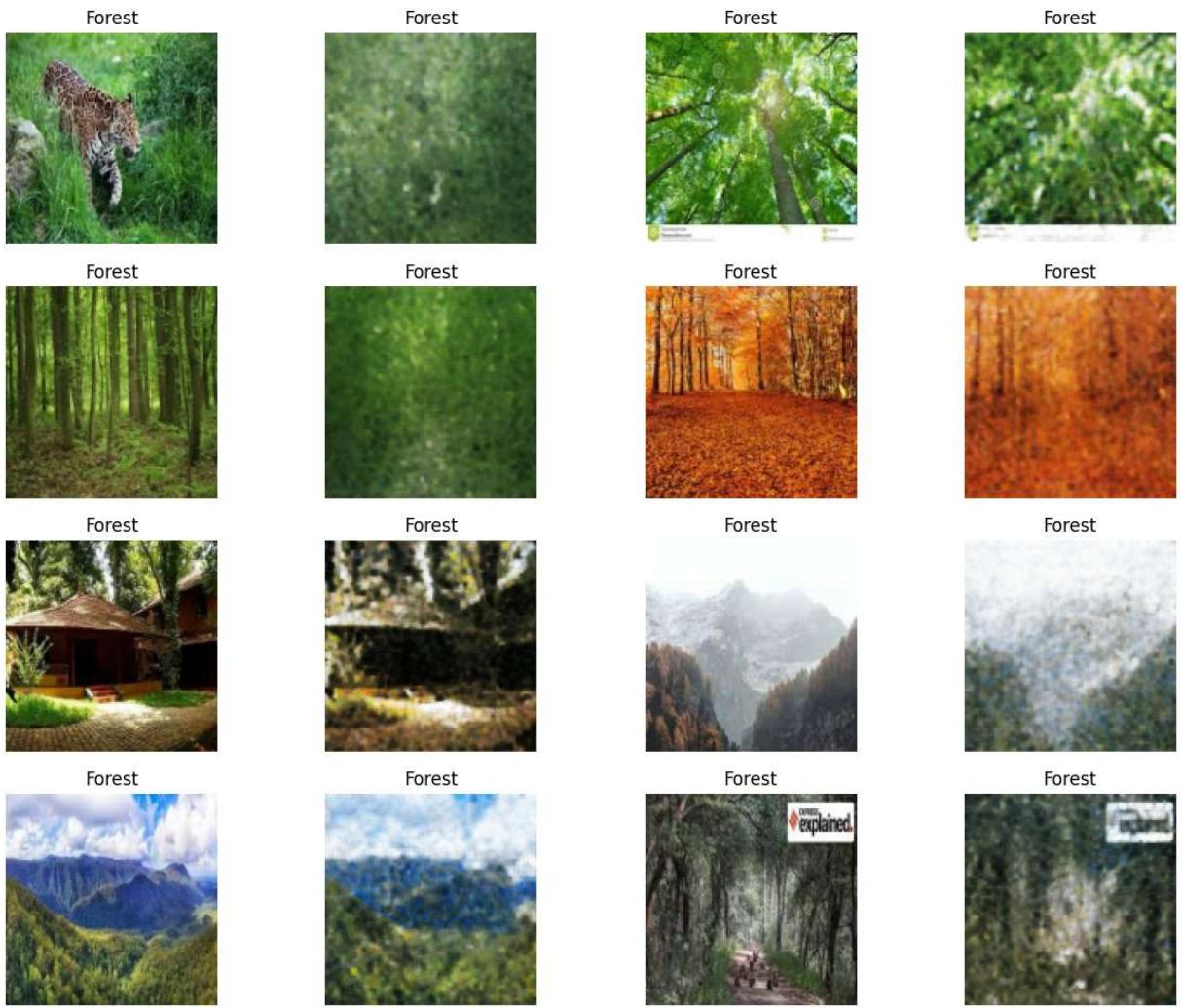
```
120/120 [=====] - 27s 228ms/step - loss: 38.5396 - reconstruction_error: 21.6847 - regularization_error: 16.8549 - val_loss: 69.3712 - val_reconstruction_error: 54.7986 - val_regularization_error: 14.5725
Epoch 932/1000
120/120 [=====] - 23s 192ms/step - loss: 38.6008 - reconstruction_error: 21.7222 - regularization_error: 16.8786 - val_loss: 69.3615 - val_reconstruction_error: 55.0236 - val_regularization_error: 14.3379
Epoch 933/1000
120/120 [=====] - 26s 220ms/step - loss: 38.3388 - reconstruction_error: 21.6035 - regularization_error: 16.7353 - val_loss: 70.3942 - val_reconstruction_error: 55.0593 - val_regularization_error: 15.3348
Epoch 934/1000
120/120 [=====] - 23s 190ms/step - loss: 38.4081 - reconstruction_error: 21.6489 - regularization_error: 16.7592 - val_loss: 71.3329 - val_reconstruction_error: 56.5479 - val_regularization_error: 14.7850
Epoch 935/1000
120/120 [=====] - 21s 170ms/step - loss: 38.6978 - reconstruction_error: 21.8512 - regularization_error: 16.8466 - val_loss: 69.5731 - val_reconstruction_error: 54.7436 - val_regularization_error: 14.8295
Epoch 936/1000
120/120 [=====] - 19s 161ms/step - loss: 38.3831 - reconstruction_error: 21.6077 - regularization_error: 16.7754 - val_loss: 70.3282 - val_reconstruction_error: 55.4390 - val_regularization_error: 14.8892
Epoch 937/1000
120/120 [=====] - 23s 192ms/step - loss: 38.3823 - reconstruction_error: 21.5553 - regularization_error: 16.8271 - val_loss: 68.9921 - val_reconstruction_error: 54.8294 - val_regularization_error: 14.1627
Epoch 938/1000
120/120 [=====] - 24s 199ms/step - loss: 38.6280 - reconstruction_error: 21.7620 - regularization_error: 16.8660 - val_loss: 70.9367 - val_reconstruction_error: 55.3628 - val_regularization_error: 15.5739
Epoch 939/1000
120/120 [=====] - 18s 148ms/step - loss: 38.3852 - reconstruction_error: 21.6476 - regularization_error: 16.7376 - val_loss: 71.9653 - val_reconstruction_error: 56.7591 - val_regularization_error: 15.2062
Epoch 940/1000
120/120 [=====] - 24s 198ms/step - loss: 38.4863 - reconstruction_error: 21.7621 - regularization_error: 16.7242 - val_loss: 70.0764 - val_reconstruction_error: 55.2230 - val_regularization_error: 14.8534
Epoch 941/1000
120/120 [=====] - ETA: 0s - loss: 38.4584 - reconstruction_error: 21.6138 - regularization_error: 16.8445
[2023-12-02 03:44:46.160865]: Reconstructing images for epoch 941 ...
```



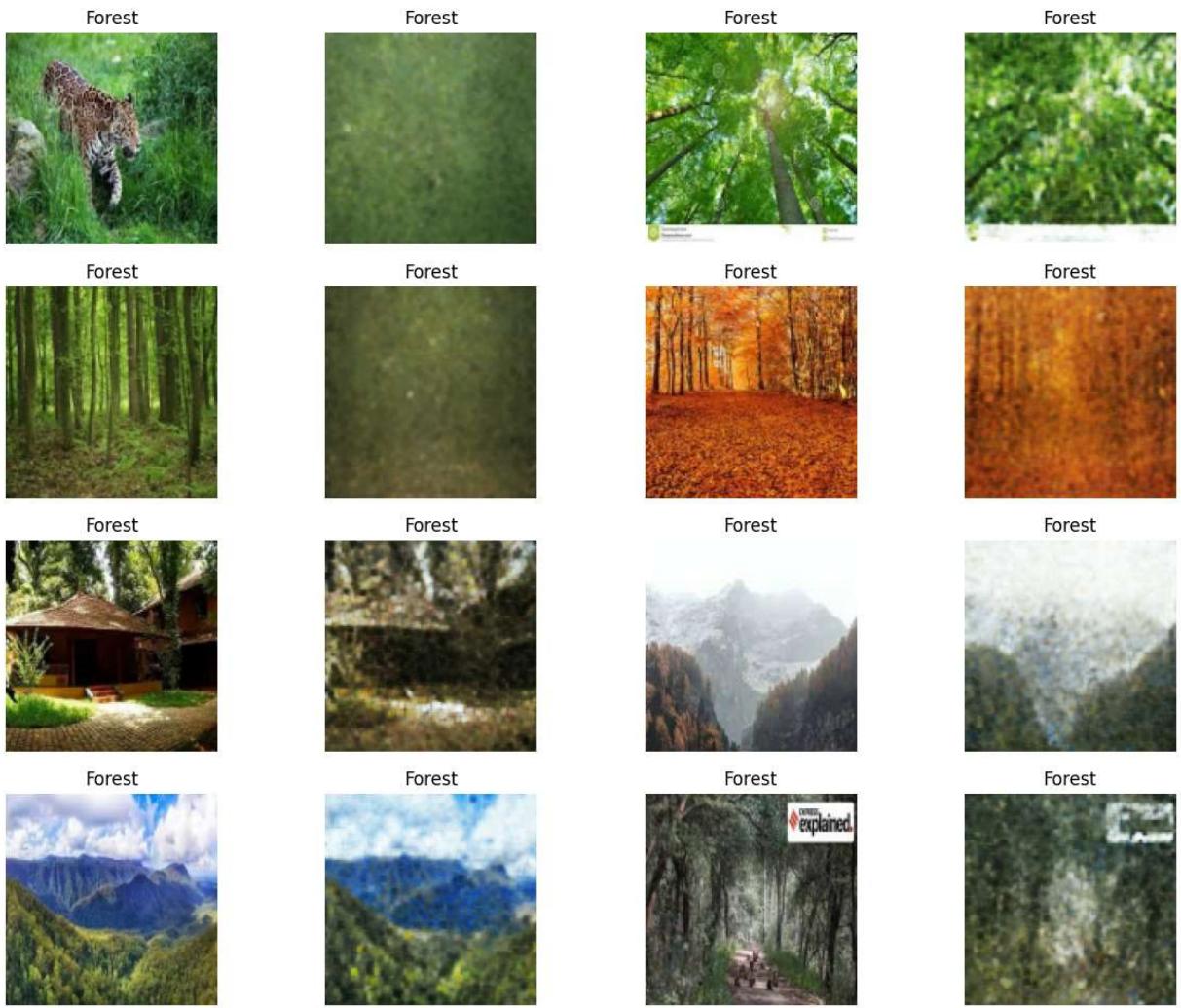
```
120/120 [=====] - 25s 209ms/step - loss: 38.4584 - reconstruction_error: 21.6138 - regularization_error: 16.8445 - val_loss: 70.2120 - val_reconstruction_error: 55.4927 - val_regularization_error: 14.7193
Epoch 942/1000
120/120 [=====] - 21s 173ms/step - loss: 38.3419 - reconstruction_error: 21.6584 - regularization_error: 16.6835 - val_loss: 69.6120 - val_reconstruction_error: 55.3615 - val_regularization_error: 14.2505
Epoch 943/1000
120/120 [=====] - 23s 190ms/step - loss: 38.4519 - reconstruction_error: 21.6830 - regularization_error: 16.7689 - val_loss: 70.3469 - val_reconstruction_error: 55.3074 - val_regularization_error: 15.0396
Epoch 944/1000
120/120 [=====] - 24s 203ms/step - loss: 38.4763 - reconstruction_error: 21.7611 - regularization_error: 16.7152 - val_loss: 69.3300 - val_reconstruction_error: 54.8370 - val_regularization_error: 14.4930
Epoch 945/1000
120/120 [=====] - 24s 200ms/step - loss: 38.4918 - reconstruction_error: 21.6941 - regularization_error: 16.7976 - val_loss: 70.7771 - val_reconstruction_error: 55.5314 - val_regularization_error: 15.2457
Epoch 946/1000
120/120 [=====] - 26s 215ms/step - loss: 38.4425 - reconstruction_error: 21.5552 - regularization_error: 16.8874 - val_loss: 69.8142 - val_reconstruction_error: 54.1867 - val_regularization_error: 15.6275
Epoch 947/1000
120/120 [=====] - 24s 198ms/step - loss: 38.5610 - reconstruction_error: 21.5682 - regularization_error: 16.9928 - val_loss: 71.4092 - val_reconstruction_error: 56.1026 - val_regularization_error: 15.3066
Epoch 948/1000
120/120 [=====] - 24s 198ms/step - loss: 38.4261 - reconstruction_error: 21.6344 - regularization_error: 16.7917 - val_loss: 71.0283 - val_reconstruction_error: 55.8618 - val_regularization_error: 15.1665
Epoch 949/1000
120/120 [=====] - 24s 201ms/step - loss: 38.7060 - reconstruction_error: 21.7036 - regularization_error: 17.0024 - val_loss: 70.4409 - val_reconstruction_error: 55.6583 - val_regularization_error: 14.7826
Epoch 950/1000
120/120 [=====] - 19s 156ms/step - loss: 38.2098 - reconstruction_error: 21.4546 - regularization_error: 16.7553 - val_loss: 69.3272 - val_reconstruction_error: 55.0540 - val_regularization_error: 14.2731
Epoch 951/1000
120/120 [=====] - ETA: 0s - loss: 38.3725 - reconstruction_error: 21.6197 - regularization_error: 16.7528
[2023-12-02 03:48:37.307620]: Reconstructing images for epoch 951 ...
```



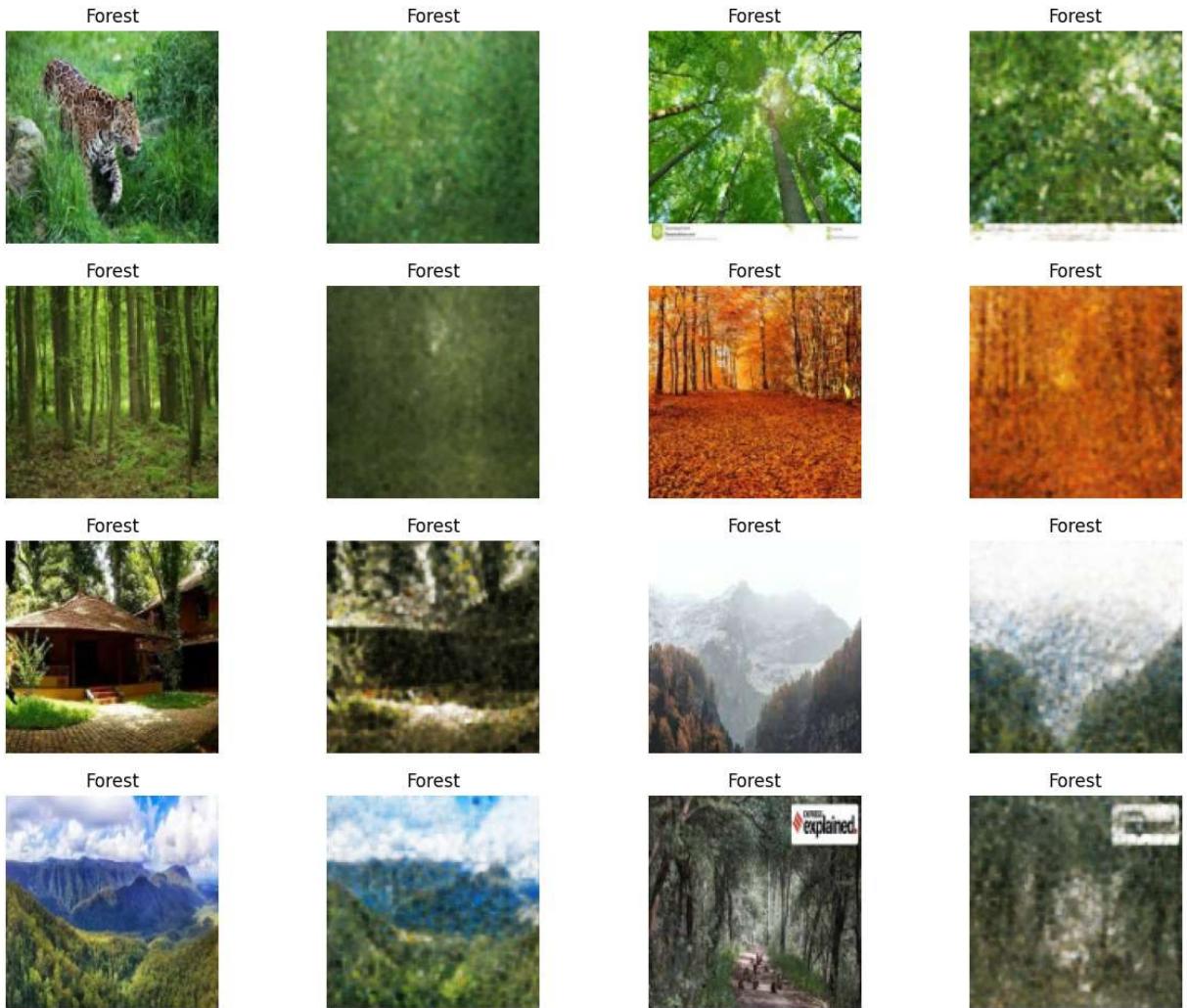
```
120/120 [=====] - 22s 181ms/step - loss: 38.3725 - reconstruction_error: 21.6197 - regularization_error: 16.7528 - val_loss: 72.5383 - val_reconstruction_error: 56.6273 - val_regularization_error: 15.9110
Epoch 952/1000
120/120 [=====] - 21s 178ms/step - loss: 38.3460 - reconstruction_error: 21.5340 - regularization_error: 16.8121 - val_loss: 70.3656 - val_reconstruction_error: 55.0410 - val_regularization_error: 15.3247
Epoch 953/1000
120/120 [=====] - 22s 184ms/step - loss: 38.3460 - reconstruction_error: 21.5560 - regularization_error: 16.7900 - val_loss: 70.1031 - val_reconstruction_error: 54.8094 - val_regularization_error: 15.2937
Epoch 954/1000
120/120 [=====] - 23s 188ms/step - loss: 38.3367 - reconstruction_error: 21.5565 - regularization_error: 16.7802 - val_loss: 70.1740 - val_reconstruction_error: 54.7683 - val_regularization_error: 15.4057
Epoch 955/1000
120/120 [=====] - 24s 202ms/step - loss: 38.2207 - reconstruction_error: 21.4456 - regularization_error: 16.7750 - val_loss: 70.5594 - val_reconstruction_error: 55.3966 - val_regularization_error: 15.1628
Epoch 956/1000
120/120 [=====] - 26s 220ms/step - loss: 38.2901 - reconstruction_error: 21.5205 - regularization_error: 16.7696 - val_loss: 69.8906 - val_reconstruction_error: 54.9898 - val_regularization_error: 14.9008
Epoch 957/1000
120/120 [=====] - 21s 171ms/step - loss: 38.4013 - reconstruction_error: 21.6330 - regularization_error: 16.7683 - val_loss: 70.0489 - val_reconstruction_error: 54.7754 - val_regularization_error: 15.2735
Epoch 958/1000
120/120 [=====] - 24s 196ms/step - loss: 38.2544 - reconstruction_error: 21.4482 - regularization_error: 16.8062 - val_loss: 69.1922 - val_reconstruction_error: 54.9154 - val_regularization_error: 14.2768
Epoch 959/1000
120/120 [=====] - 24s 202ms/step - loss: 38.1203 - reconstruction_error: 21.5011 - regularization_error: 16.6191 - val_loss: 69.8488 - val_reconstruction_error: 54.3353 - val_regularization_error: 15.5135
Epoch 960/1000
120/120 [=====] - 21s 174ms/step - loss: 38.3089 - reconstruction_error: 21.4616 - regularization_error: 16.8473 - val_loss: 70.3536 - val_reconstruction_error: 55.7175 - val_regularization_error: 14.6360
Epoch 961/1000
120/120 [=====] - ETA: 0s - loss: 38.2340 - reconstruction_error: 21.5005 - regularization_error: 16.7335
[2023-12-02 03:52:34.445663]: Reconstructing images for epoch 961 ...
```



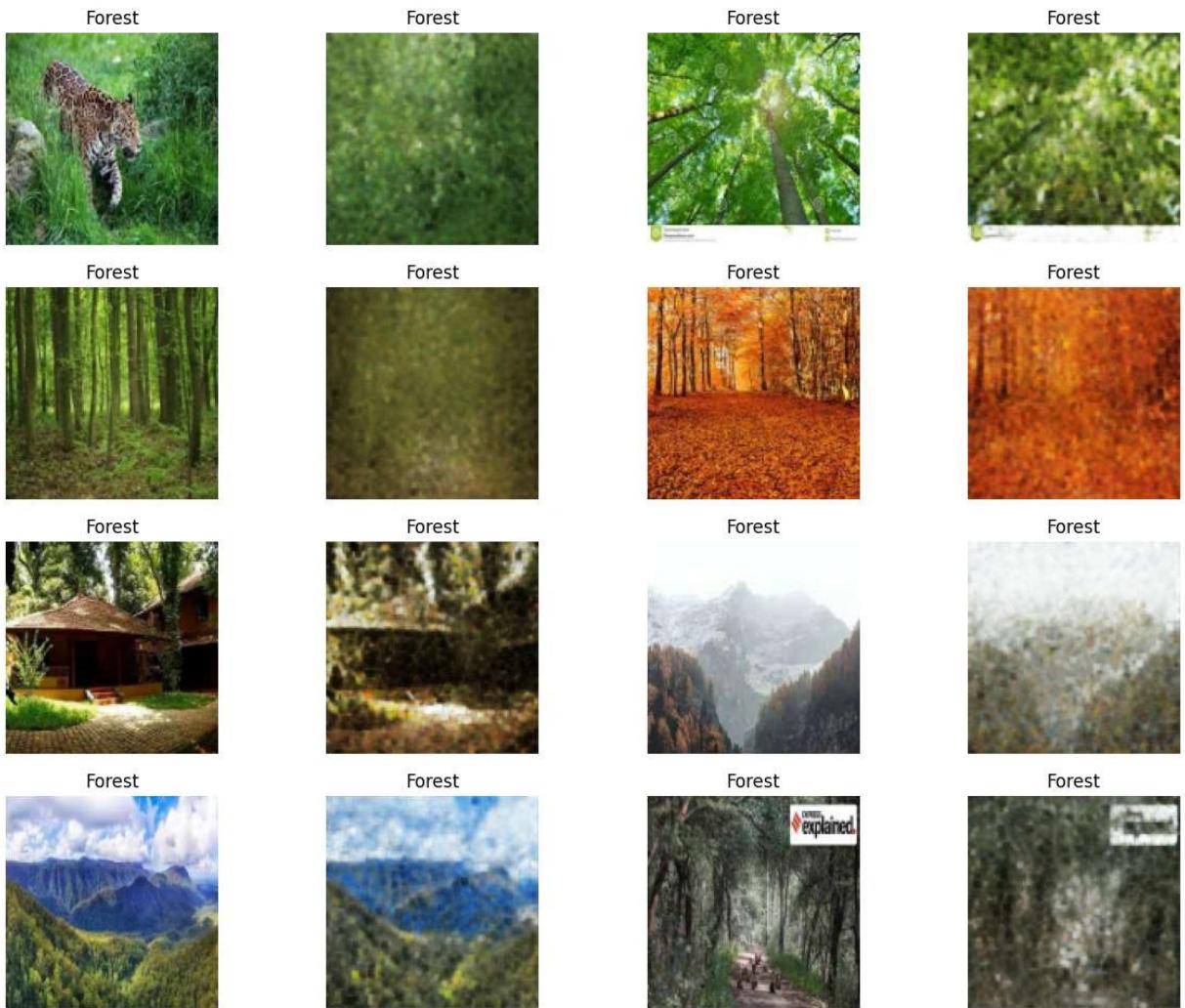
```
120/120 [=====] - 28s 233ms/step - loss: 38.2340 - reconstruction_error: 21.5005 - regularization_error: 16.7335 - val_loss: 70.9197 - val_reconstruction_error: 55.5415 - val_regularization_error: 15.3782
Epoch 962/1000
120/120 [=====] - 21s 176ms/step - loss: 38.3491 - reconstruction_error: 21.5579 - regularization_error: 16.7913 - val_loss: 70.3582 - val_reconstruction_error: 55.1916 - val_regularization_error: 15.1666
Epoch 963/1000
120/120 [=====] - 21s 173ms/step - loss: 38.3792 - reconstruction_error: 21.5458 - regularization_error: 16.8334 - val_loss: 70.8771 - val_reconstruction_error: 55.5065 - val_regularization_error: 15.3706
Epoch 964/1000
120/120 [=====] - 26s 212ms/step - loss: 38.3602 - reconstruction_error: 21.4914 - regularization_error: 16.8688 - val_loss: 70.3094 - val_reconstruction_error: 55.5662 - val_regularization_error: 14.7432
Epoch 965/1000
120/120 [=====] - 27s 220ms/step - loss: 38.5356 - reconstruction_error: 21.6263 - regularization_error: 16.9093 - val_loss: 69.6678 - val_reconstruction_error: 54.9726 - val_regularization_error: 14.6952
Epoch 966/1000
120/120 [=====] - 24s 195ms/step - loss: 38.3341 - reconstruction_error: 21.5192 - regularization_error: 16.8149 - val_loss: 70.0377 - val_reconstruction_error: 55.2974 - val_regularization_error: 14.7403
Epoch 967/1000
120/120 [=====] - 21s 176ms/step - loss: 38.1907 - reconstruction_error: 21.4046 - regularization_error: 16.7861 - val_loss: 70.7760 - val_reconstruction_error: 55.6583 - val_regularization_error: 15.1177
Epoch 968/1000
120/120 [=====] - 24s 197ms/step - loss: 38.2232 - reconstruction_error: 21.4128 - regularization_error: 16.8103 - val_loss: 71.3383 - val_reconstruction_error: 55.4234 - val_regularization_error: 15.9149
Epoch 969/1000
120/120 [=====] - 25s 209ms/step - loss: 38.2659 - reconstruction_error: 21.5010 - regularization_error: 16.7649 - val_loss: 70.4632 - val_reconstruction_error: 55.2597 - val_regularization_error: 15.2035
Epoch 970/1000
120/120 [=====] - 24s 203ms/step - loss: 38.2668 - reconstruction_error: 21.5131 - regularization_error: 16.7537 - val_loss: 69.6580 - val_reconstruction_error: 55.2340 - val_regularization_error: 14.4240
Epoch 971/1000
120/120 [=====] - ETA: 0s - loss: 38.4387 - reconstruction_error: 21.6362 - regularization_error: 16.8025
[2023-12-02 03:56:32.866320]: Reconstructing images for epoch 971 ...
```



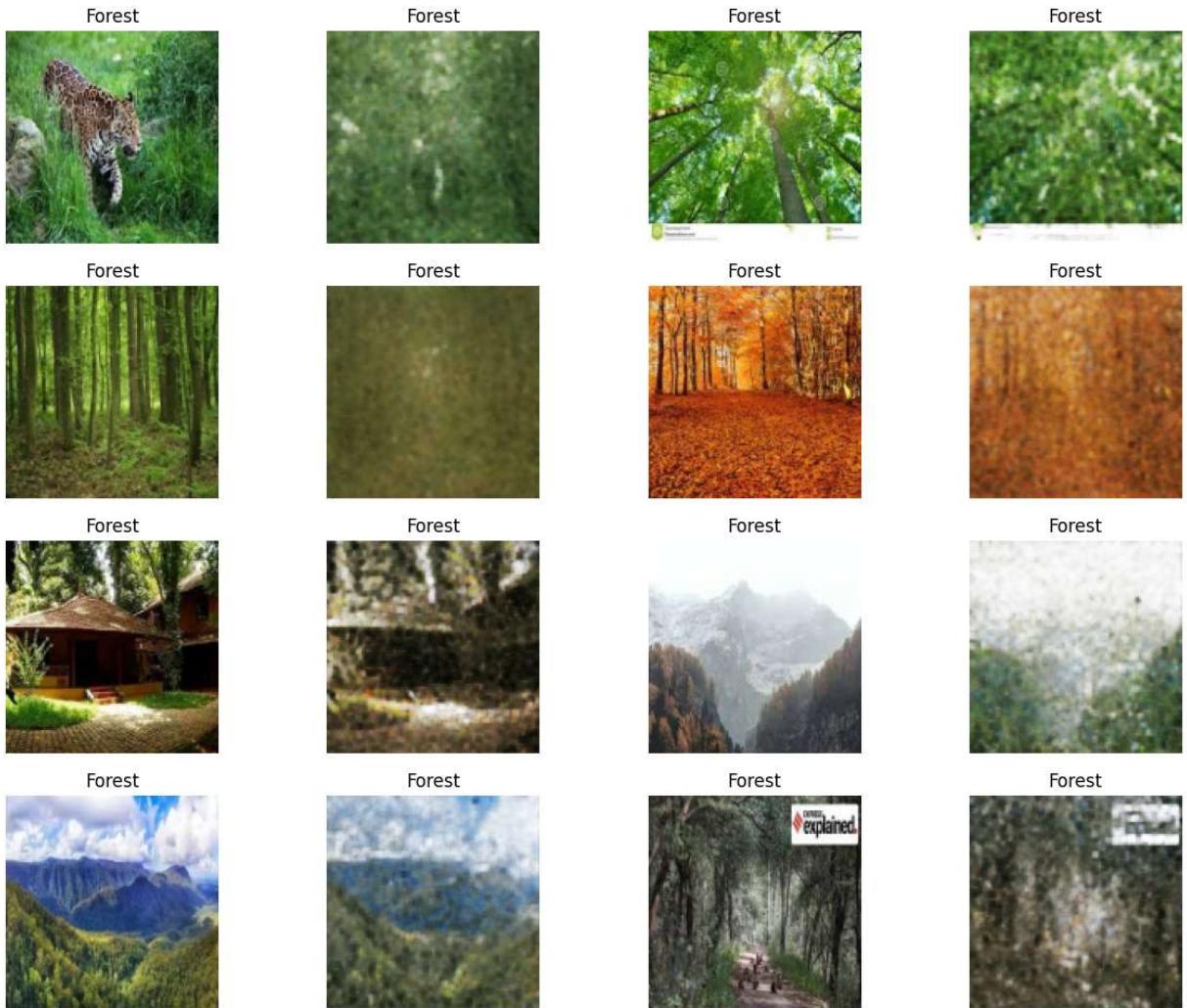
```
120/120 [=====] - 25s 209ms/step - loss: 38.4387 - reconstruction_error: 21.6362 - regularization_error: 16.8025 - val_loss: 70.2386 - val_reconstruction_error: 54.8901 - val_regularization_error: 15.3485
Epoch 972/1000
120/120 [=====] - 22s 181ms/step - loss: 38.2235 - reconstruction_error: 21.4532 - regularization_error: 16.7702 - val_loss: 71.0940 - val_reconstruction_error: 56.2284 - val_regularization_error: 14.8656
Epoch 973/1000
120/120 [=====] - 26s 217ms/step - loss: 38.3714 - reconstruction_error: 21.5092 - regularization_error: 16.8622 - val_loss: 70.5758 - val_reconstruction_error: 55.3195 - val_regularization_error: 15.2564
Epoch 974/1000
120/120 [=====] - 21s 175ms/step - loss: 38.5188 - reconstruction_error: 21.5447 - regularization_error: 16.9741 - val_loss: 70.5141 - val_reconstruction_error: 55.4894 - val_regularization_error: 15.0246
Epoch 975/1000
120/120 [=====] - 21s 175ms/step - loss: 38.0718 - reconstruction_error: 21.3212 - regularization_error: 16.7506 - val_loss: 70.0035 - val_reconstruction_error: 54.7422 - val_regularization_error: 15.2613
Epoch 976/1000
120/120 [=====] - 23s 190ms/step - loss: 38.3046 - reconstruction_error: 21.4998 - regularization_error: 16.8047 - val_loss: 71.0344 - val_reconstruction_error: 55.6351 - val_regularization_error: 15.3993
Epoch 977/1000
120/120 [=====] - 25s 208ms/step - loss: 38.3641 - reconstruction_error: 21.5001 - regularization_error: 16.8639 - val_loss: 70.6765 - val_reconstruction_error: 55.5284 - val_regularization_error: 15.1481
Epoch 978/1000
120/120 [=====] - 25s 206ms/step - loss: 38.4786 - reconstruction_error: 21.6154 - regularization_error: 16.8632 - val_loss: 70.7051 - val_reconstruction_error: 56.0416 - val_regularization_error: 14.6634
Epoch 979/1000
120/120 [=====] - 20s 167ms/step - loss: 38.2148 - reconstruction_error: 21.3970 - regularization_error: 16.8179 - val_loss: 70.1747 - val_reconstruction_error: 55.0359 - val_regularization_error: 15.1388
Epoch 980/1000
120/120 [=====] - 25s 208ms/step - loss: 38.1082 - reconstruction_error: 21.3642 - regularization_error: 16.7439 - val_loss: 69.5770 - val_reconstruction_error: 54.6000 - val_regularization_error: 14.9770
Epoch 981/1000
120/120 [=====] - ETA: 0s - loss: 38.1397 - reconstruction_error: 21.3122 - regularization_error: 16.8274
[2023-12-02 04:00:27.349547]: Reconstructing images for epoch 981 ...
```



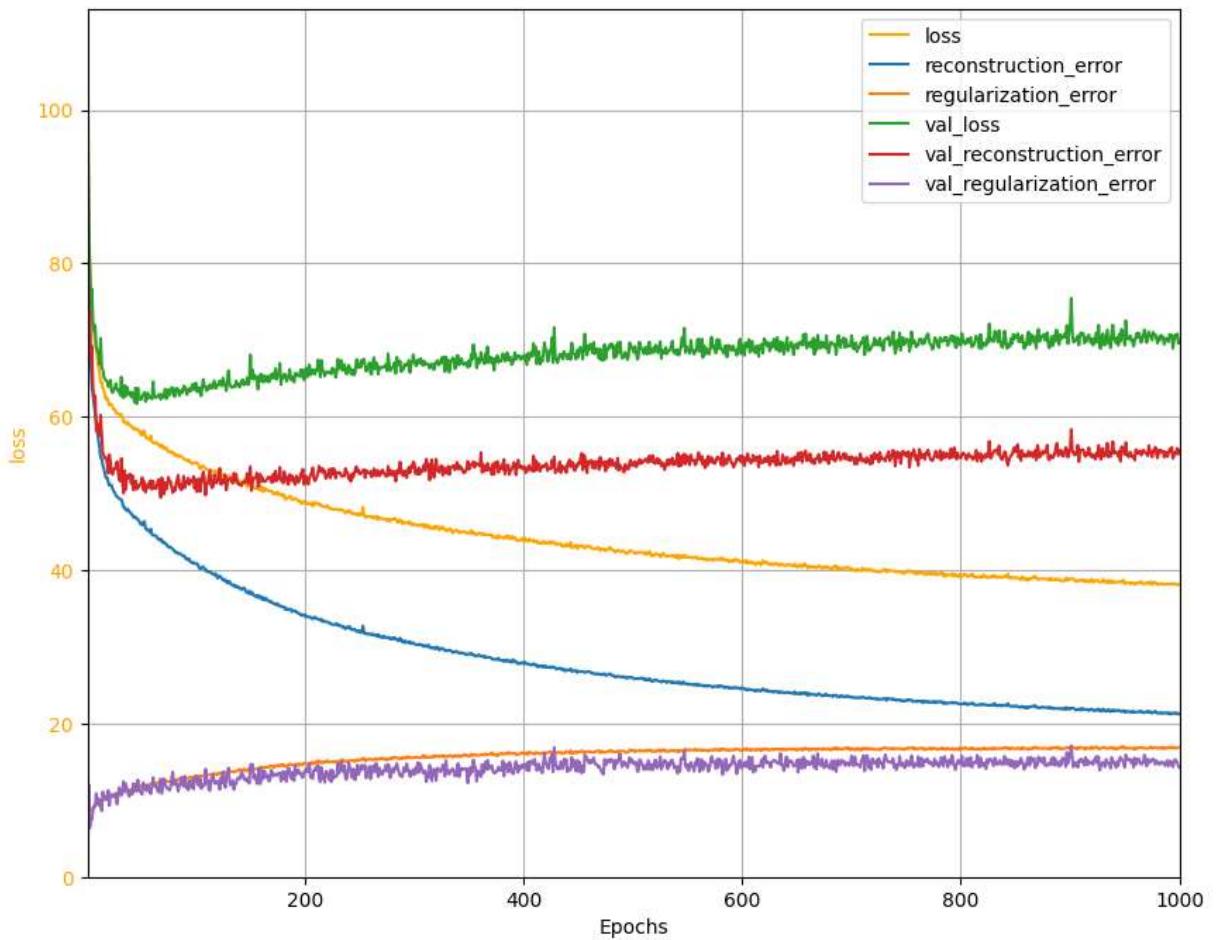
```
120/120 [=====] - 26s 217ms/step - loss: 38.1397 - reconstruction_error: 21.3122 - regularization_error: 16.8274 - val_loss: 70.3791 - val_reconstruction_error: 55.6531 - val_regularization_error: 14.7261
Epoch 982/1000
120/120 [=====] - 27s 222ms/step - loss: 38.2426 - reconstruction_error: 21.4323 - regularization_error: 16.8103 - val_loss: 69.9576 - val_reconstruction_error: 55.2923 - val_regularization_error: 14.6653
Epoch 983/1000
120/120 [=====] - 21s 175ms/step - loss: 38.1677 - reconstruction_error: 21.4052 - regularization_error: 16.7625 - val_loss: 70.6435 - val_reconstruction_error: 55.6579 - val_regularization_error: 14.9856
Epoch 984/1000
120/120 [=====] - 20s 168ms/step - loss: 38.2363 - reconstruction_error: 21.3011 - regularization_error: 16.9352 - val_loss: 70.3336 - val_reconstruction_error: 55.4658 - val_regularization_error: 14.8678
Epoch 985/1000
120/120 [=====] - 22s 178ms/step - loss: 38.1154 - reconstruction_error: 21.3866 - regularization_error: 16.7287 - val_loss: 70.4125 - val_reconstruction_error: 55.4810 - val_regularization_error: 14.9315
Epoch 986/1000
120/120 [=====] - 25s 204ms/step - loss: 38.1865 - reconstruction_error: 21.3606 - regularization_error: 16.8259 - val_loss: 69.4323 - val_reconstruction_error: 54.7239 - val_regularization_error: 14.7084
Epoch 987/1000
120/120 [=====] - 25s 208ms/step - loss: 38.1325 - reconstruction_error: 21.3821 - regularization_error: 16.7504 - val_loss: 69.9654 - val_reconstruction_error: 55.4739 - val_regularization_error: 14.4915
Epoch 988/1000
120/120 [=====] - 20s 166ms/step - loss: 38.1914 - reconstruction_error: 21.3554 - regularization_error: 16.8359 - val_loss: 70.2450 - val_reconstruction_error: 55.2419 - val_regularization_error: 15.0031
Epoch 989/1000
120/120 [=====] - 22s 184ms/step - loss: 38.2118 - reconstruction_error: 21.4055 - regularization_error: 16.8063 - val_loss: 69.9744 - val_reconstruction_error: 54.7793 - val_regularization_error: 15.1951
Epoch 990/1000
120/120 [=====] - 21s 176ms/step - loss: 38.1462 - reconstruction_error: 21.2659 - regularization_error: 16.8803 - val_loss: 69.7844 - val_reconstruction_error: 55.3421 - val_regularization_error: 14.4423
Epoch 991/1000
120/120 [=====] - ETA: 0s - loss: 38.1724 - reconstruction_error: 21.3975 - regularization_error: 16.7749
[2023-12-02 04:04:18.492566]: Reconstructing images for epoch 991 ...
```



```
120/120 [=====] - 25s 208ms/step - loss: 38.1724 - reconstruction_error: 21.3975 - regularization_error: 16.7749 - val_loss: 70.7670 - val_reconstruction_error: 55.7856 - val_regularization_error: 14.9813
Epoch 992/1000
120/120 [=====] - 19s 161ms/step - loss: 38.1721 - reconstruction_error: 21.2126 - regularization_error: 16.9595 - val_loss: 70.6717 - val_reconstruction_error: 55.5232 - val_regularization_error: 15.1485
Epoch 993/1000
120/120 [=====] - 22s 180ms/step - loss: 38.2037 - reconstruction_error: 21.3645 - regularization_error: 16.8392 - val_loss: 70.5963 - val_reconstruction_error: 56.0246 - val_regularization_error: 14.5717
Epoch 994/1000
120/120 [=====] - 30s 249ms/step - loss: 38.1471 - reconstruction_error: 21.3554 - regularization_error: 16.7917 - val_loss: 68.9103 - val_reconstruction_error: 54.5594 - val_regularization_error: 14.3509
Epoch 995/1000
120/120 [=====] - 23s 186ms/step - loss: 38.2611 - reconstruction_error: 21.3256 - regularization_error: 16.9355 - val_loss: 69.9356 - val_reconstruction_error: 54.9589 - val_regularization_error: 14.9768
Epoch 996/1000
120/120 [=====] - 23s 191ms/step - loss: 38.1884 - reconstruction_error: 21.4171 - regularization_error: 16.7713 - val_loss: 70.6785 - val_reconstruction_error: 55.3551 - val_regularization_error: 15.3234
Epoch 997/1000
120/120 [=====] - 23s 187ms/step - loss: 38.1044 - reconstruction_error: 21.3222 - regularization_error: 16.7822 - val_loss: 70.3350 - val_reconstruction_error: 55.2080 - val_regularization_error: 15.1270
Epoch 998/1000
120/120 [=====] - 20s 168ms/step - loss: 38.0582 - reconstruction_error: 21.2351 - regularization_error: 16.8231 - val_loss: 70.8203 - val_reconstruction_error: 55.8908 - val_regularization_error: 14.9296
Epoch 999/1000
120/120 [=====] - 21s 176ms/step - loss: 38.1910 - reconstruction_error: 21.3481 - regularization_error: 16.8429 - val_loss: 69.5386 - val_reconstruction_error: 55.1035 - val_regularization_error: 14.4351
Epoch 1000/1000
120/120 [=====] - ETA: 0s - loss: 38.1532 - reconstruction_error: 21.2489 - regularization_error: 16.9043
[2023-12-02 04:07:45.334333]: Reconstructing images for epoch 1000 ...
```



120/120 [=====] - 25s 204ms/step - loss: 38.1532 - reconstruction\_error: 21.2489 - regularization\_error: 16.9043 - val\_loss: 69.8564 - val\_reconstruction\_error: 55.5918 - val\_regularization\_error: 14.2646



## Generation

