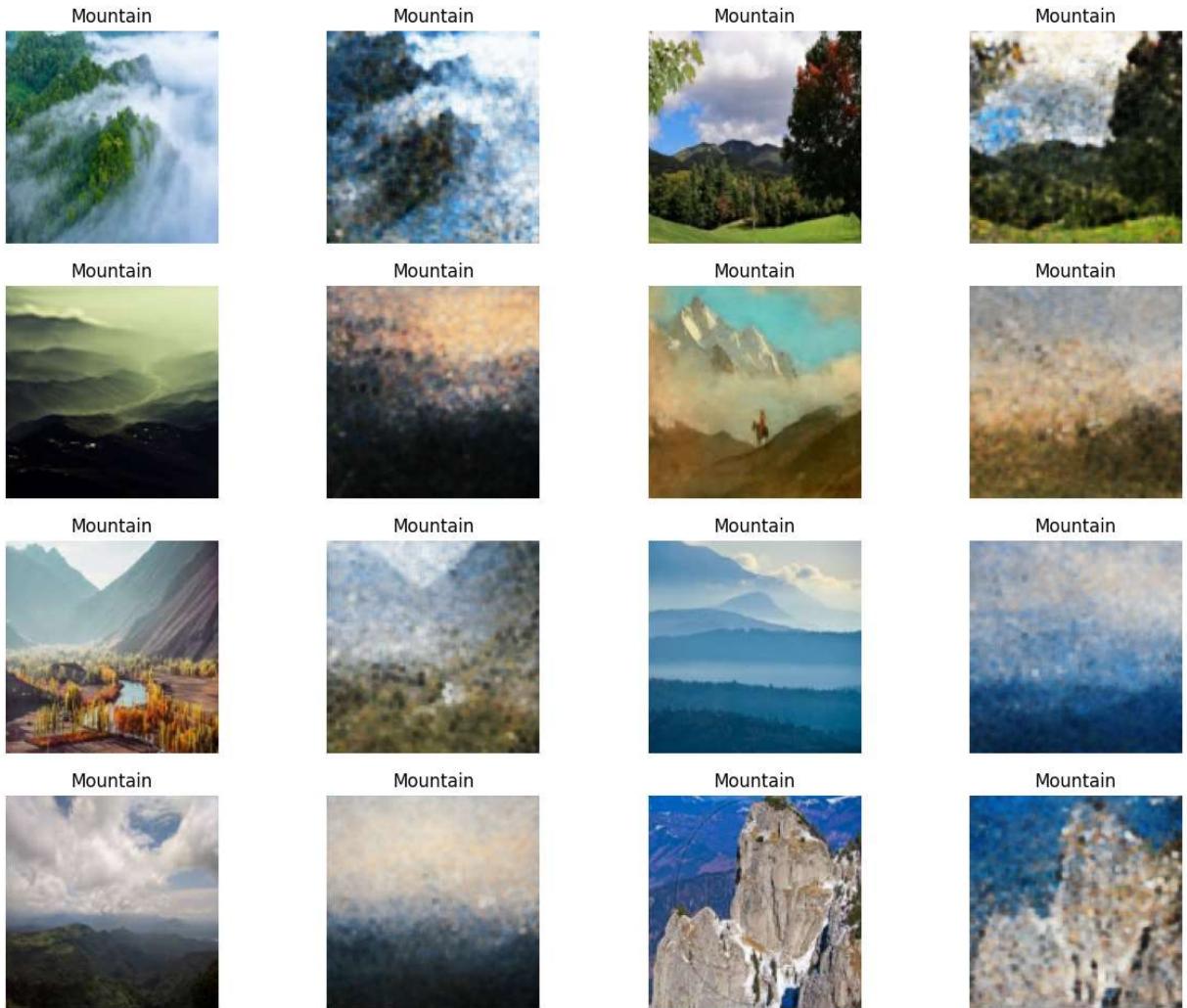
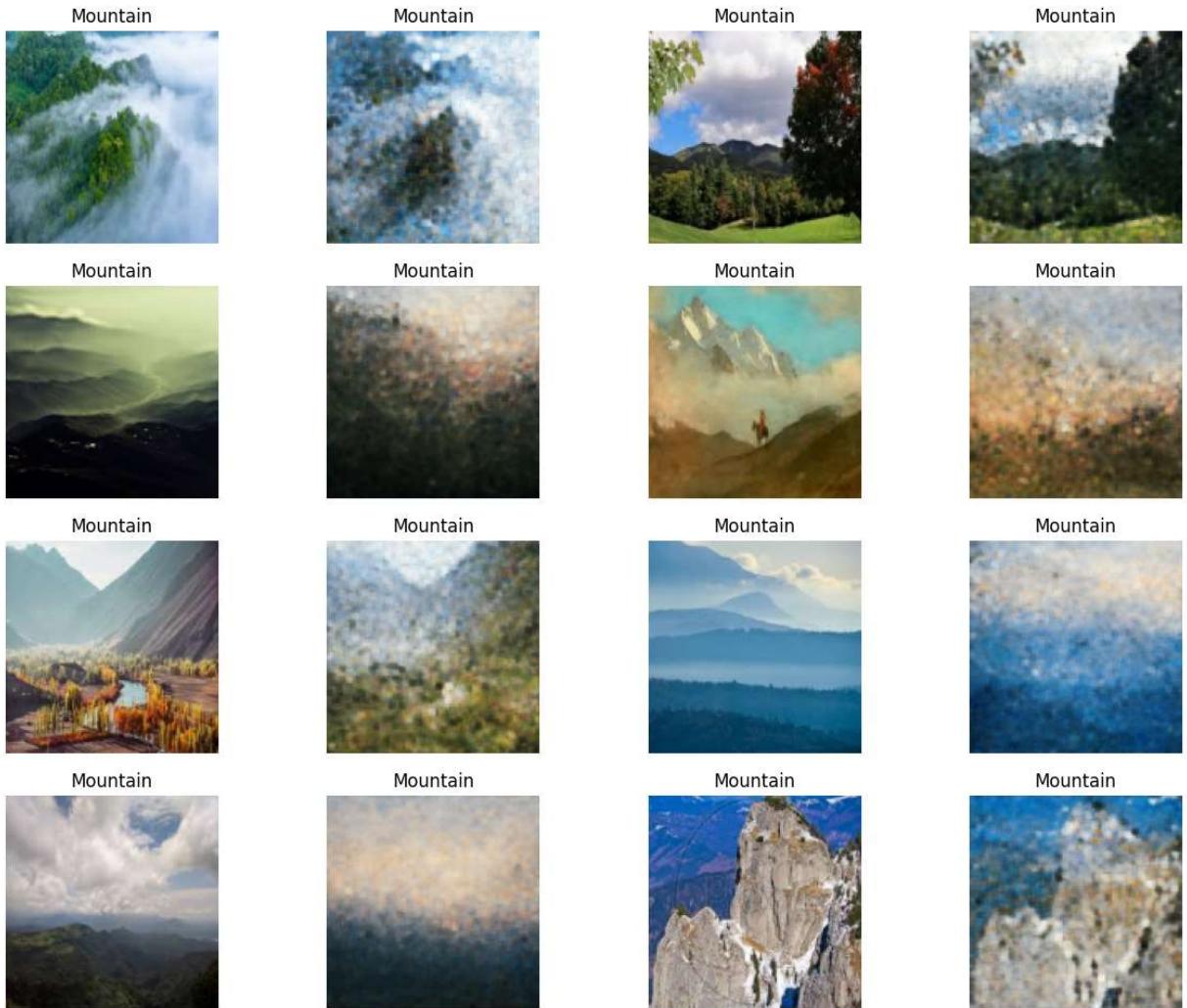


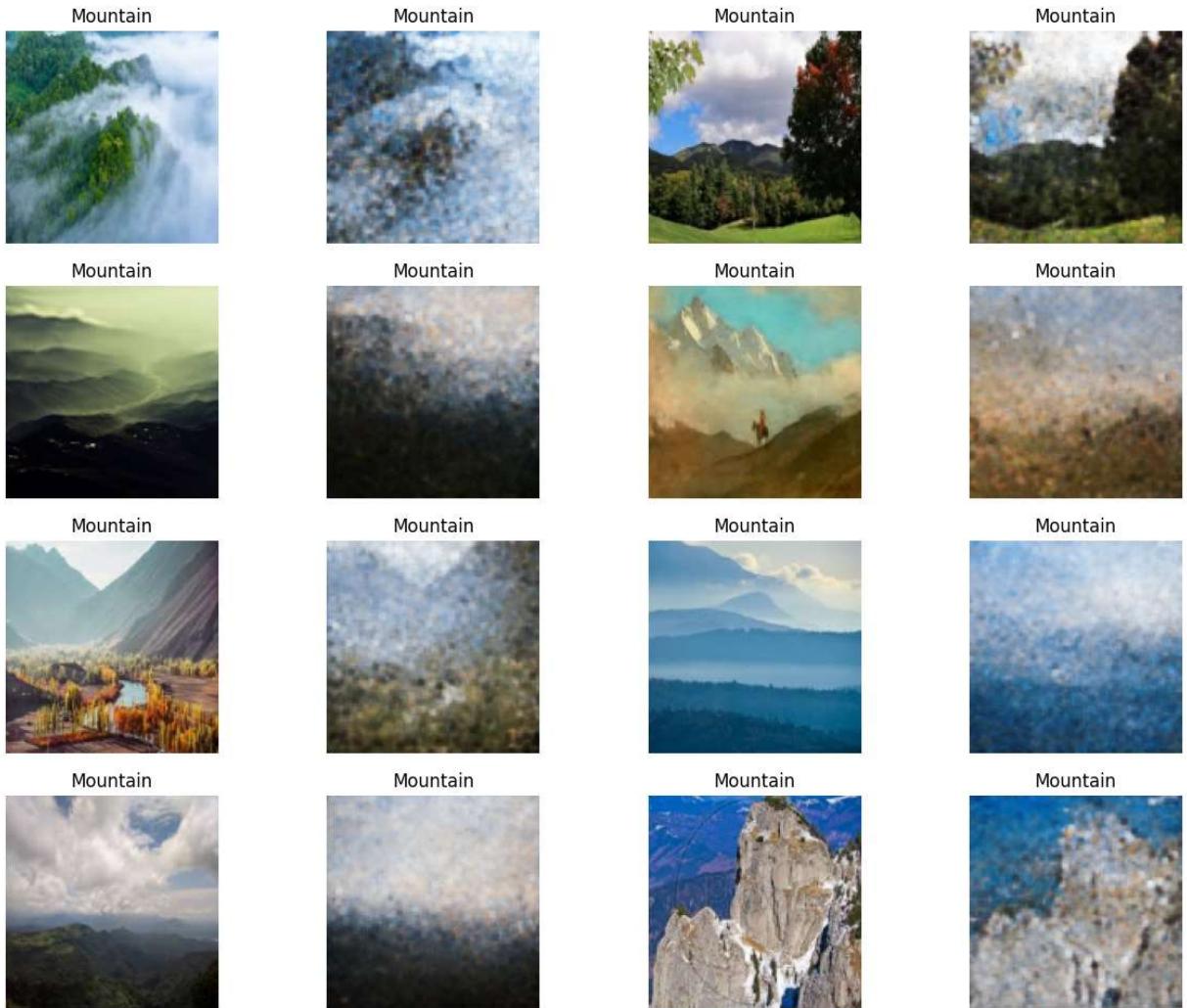
```
120/120 [=====] - 20s 165ms/step - loss: 38.9469 - reconstruction_error: 19.6003 - regularization_error: 19.3466 - val_loss: 69.8700 - val_reconstruction_error: 52.1783 - val_regularization_error: 17.6917
Epoch 502/1000
120/120 [=====] - 14s 116ms/step - loss: 38.9767 - reconstruction_error: 19.7202 - regularization_error: 19.2565 - val_loss: 69.8221 - val_reconstruction_error: 51.8987 - val_regularization_error: 17.9234
Epoch 503/1000
120/120 [=====] - 17s 137ms/step - loss: 38.9885 - reconstruction_error: 19.6583 - regularization_error: 19.3302 - val_loss: 69.9851 - val_reconstruction_error: 52.5119 - val_regularization_error: 17.4731
Epoch 504/1000
120/120 [=====] - 14s 111ms/step - loss: 38.8384 - reconstruction_error: 19.5413 - regularization_error: 19.2971 - val_loss: 70.3939 - val_reconstruction_error: 53.8324 - val_regularization_error: 16.5614
Epoch 505/1000
120/120 [=====] - 17s 139ms/step - loss: 38.9612 - reconstruction_error: 19.6216 - regularization_error: 19.3396 - val_loss: 70.0846 - val_reconstruction_error: 53.1370 - val_regularization_error: 16.9476
Epoch 506/1000
120/120 [=====] - 16s 136ms/step - loss: 38.8938 - reconstruction_error: 19.5093 - regularization_error: 19.3844 - val_loss: 69.2501 - val_reconstruction_error: 51.4760 - val_regularization_error: 17.7741
Epoch 507/1000
120/120 [=====] - 16s 137ms/step - loss: 38.8900 - reconstruction_error: 19.5487 - regularization_error: 19.3414 - val_loss: 69.9404 - val_reconstruction_error: 51.9300 - val_regularization_error: 18.0105
Epoch 508/1000
120/120 [=====] - 17s 140ms/step - loss: 38.7721 - reconstruction_error: 19.4658 - regularization_error: 19.3063 - val_loss: 69.3284 - val_reconstruction_error: 52.3152 - val_regularization_error: 17.0131
Epoch 509/1000
120/120 [=====] - 17s 142ms/step - loss: 38.6085 - reconstruction_error: 19.4146 - regularization_error: 19.1940 - val_loss: 70.1739 - val_reconstruction_error: 52.7857 - val_regularization_error: 17.3882
Epoch 510/1000
120/120 [=====] - 14s 116ms/step - loss: 38.6119 - reconstruction_error: 19.4231 - regularization_error: 19.1888 - val_loss: 70.1672 - val_reconstruction_error: 52.5432 - val_regularization_error: 17.6241
Epoch 511/1000
120/120 [=====] - ETA: 0s - loss: 38.7612 - reconstruction_error: 19.5161 - regularization_error: 19.2451
[2023-12-02 19:03:13.504230]: Reconstructing images for epoch 511 ...
```



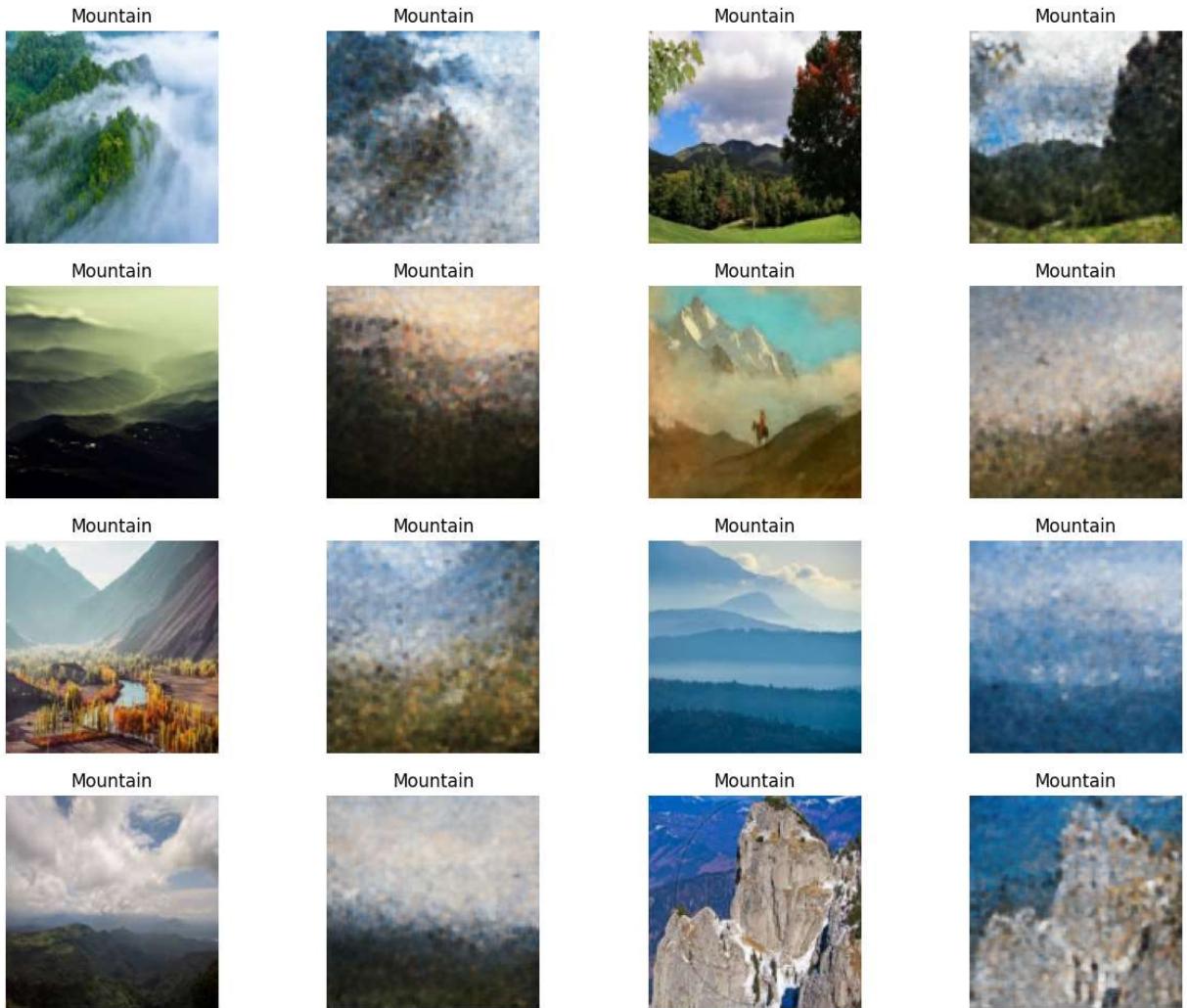
```
120/120 [=====] - 18s 151ms/step - loss: 38.7612 - reconstruction_error: 19.5161 - regularization_error: 19.2451 - val_loss: 70.7799 - val_reconstruction_error: 52.2002 - val_regularization_error: 18.5797
Epoch 512/1000
120/120 [=====] - 14s 118ms/step - loss: 38.7841 - reconstruction_error: 19.5073 - regularization_error: 19.2768 - val_loss: 69.4557 - val_reconstruction_error: 52.0815 - val_regularization_error: 17.3741
Epoch 513/1000
120/120 [=====] - 16s 134ms/step - loss: 38.6103 - reconstruction_error: 19.3954 - regularization_error: 19.2149 - val_loss: 68.5018 - val_reconstruction_error: 51.7380 - val_regularization_error: 16.7638
Epoch 514/1000
120/120 [=====] - 17s 140ms/step - loss: 38.7880 - reconstruction_error: 19.4466 - regularization_error: 19.3415 - val_loss: 70.4770 - val_reconstruction_error: 53.2202 - val_regularization_error: 17.2567
Epoch 515/1000
120/120 [=====] - 17s 136ms/step - loss: 38.7882 - reconstruction_error: 19.5276 - regularization_error: 19.2605 - val_loss: 70.5755 - val_reconstruction_error: 53.2598 - val_regularization_error: 17.3158
Epoch 516/1000
120/120 [=====] - 19s 160ms/step - loss: 38.6567 - reconstruction_error: 19.3956 - regularization_error: 19.2611 - val_loss: 68.8835 - val_reconstruction_error: 51.7370 - val_regularization_error: 17.1465
Epoch 517/1000
120/120 [=====] - 20s 166ms/step - loss: 38.5109 - reconstruction_error: 19.3041 - regularization_error: 19.2068 - val_loss: 69.6274 - val_reconstruction_error: 52.2638 - val_regularization_error: 17.3636
Epoch 518/1000
120/120 [=====] - 18s 147ms/step - loss: 38.4727 - reconstruction_error: 19.2298 - regularization_error: 19.2429 - val_loss: 69.9796 - val_reconstruction_error: 52.8014 - val_regularization_error: 17.1782
Epoch 519/1000
120/120 [=====] - 17s 138ms/step - loss: 38.7493 - reconstruction_error: 19.4392 - regularization_error: 19.3101 - val_loss: 69.7830 - val_reconstruction_error: 51.9376 - val_regularization_error: 17.8453
Epoch 520/1000
120/120 [=====] - 16s 132ms/step - loss: 38.6559 - reconstruction_error: 19.3629 - regularization_error: 19.2930 - val_loss: 69.9892 - val_reconstruction_error: 52.4253 - val_regularization_error: 17.5639
Epoch 521/1000
120/120 [=====] - ETA: 0s - loss: 38.8180 - reconstruction_error: 19.4757 - regularization_error: 19.3423
[2023-12-02 19:06:04.270908]: Reconstructing images for epoch 521 ...
```



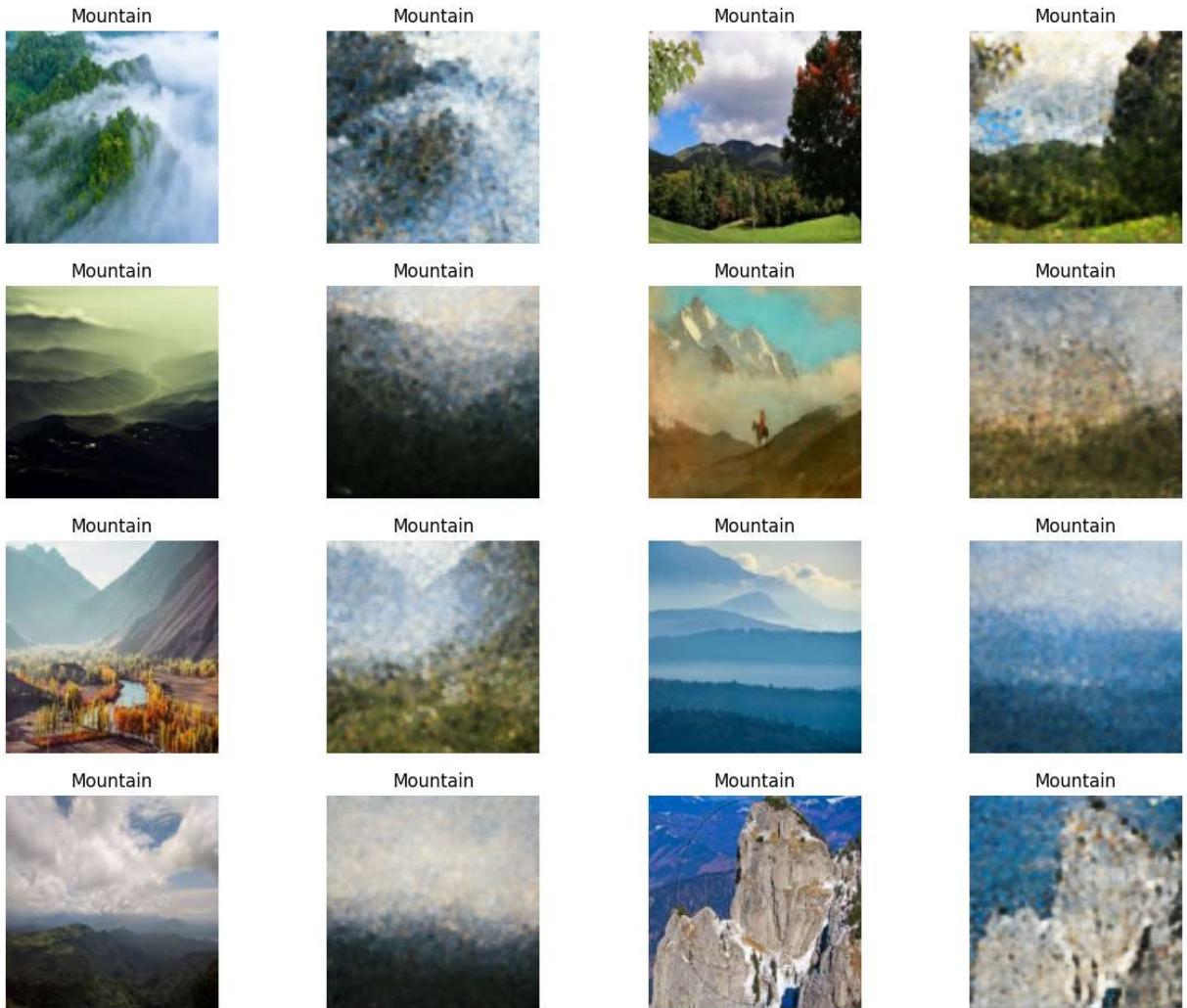
```
120/120 [=====] - 18s 146ms/step - loss: 38.8180 - reconstruction_error: 19.4757 - regularization_error: 19.3423 - val_loss: 70.6833 - val_reconstruction_error: 52.2708 - val_regularization_error: 18.4125
Epoch 522/1000
120/120 [=====] - 15s 129ms/step - loss: 38.6062 - reconstruction_error: 19.2141 - regularization_error: 19.3921 - val_loss: 70.5127 - val_reconstruction_error: 52.0159 - val_regularization_error: 18.4969
Epoch 523/1000
120/120 [=====] - 15s 128ms/step - loss: 38.5790 - reconstruction_error: 19.2762 - regularization_error: 19.3028 - val_loss: 69.3331 - val_reconstruction_error: 52.0766 - val_regularization_error: 17.2565
Epoch 524/1000
120/120 [=====] - 16s 136ms/step - loss: 38.6832 - reconstruction_error: 19.3241 - regularization_error: 19.3591 - val_loss: 70.4552 - val_reconstruction_error: 52.9839 - val_regularization_error: 17.4713
Epoch 525/1000
120/120 [=====] - 16s 129ms/step - loss: 38.5891 - reconstruction_error: 19.2196 - regularization_error: 19.3694 - val_loss: 69.1121 - val_reconstruction_error: 52.6562 - val_regularization_error: 16.4559
Epoch 526/1000
120/120 [=====] - 14s 118ms/step - loss: 38.5598 - reconstruction_error: 19.2401 - regularization_error: 19.3197 - val_loss: 69.8149 - val_reconstruction_error: 52.5718 - val_regularization_error: 17.2431
Epoch 527/1000
120/120 [=====] - 16s 128ms/step - loss: 38.4236 - reconstruction_error: 19.2335 - regularization_error: 19.1902 - val_loss: 70.2632 - val_reconstruction_error: 52.6896 - val_regularization_error: 17.5736
Epoch 528/1000
120/120 [=====] - 15s 122ms/step - loss: 38.5436 - reconstruction_error: 19.2383 - regularization_error: 19.3053 - val_loss: 69.2178 - val_reconstruction_error: 52.2249 - val_regularization_error: 16.9929
Epoch 529/1000
120/120 [=====] - 17s 137ms/step - loss: 38.5133 - reconstruction_error: 19.3066 - regularization_error: 19.2067 - val_loss: 70.2060 - val_reconstruction_error: 52.6033 - val_regularization_error: 17.6026
Epoch 530/1000
120/120 [=====] - 17s 139ms/step - loss: 38.3383 - reconstruction_error: 19.0980 - regularization_error: 19.2403 - val_loss: 70.1918 - val_reconstruction_error: 53.7942 - val_regularization_error: 16.3976
Epoch 531/1000
119/120 [=====.>.] - ETA: 0s - loss: 38.3026 - reconstruction_error: 19.1020 - regularization_error: 19.2006
[2023-12-02 19:08:45.752941]: Reconstructing images for epoch 531 ...
```



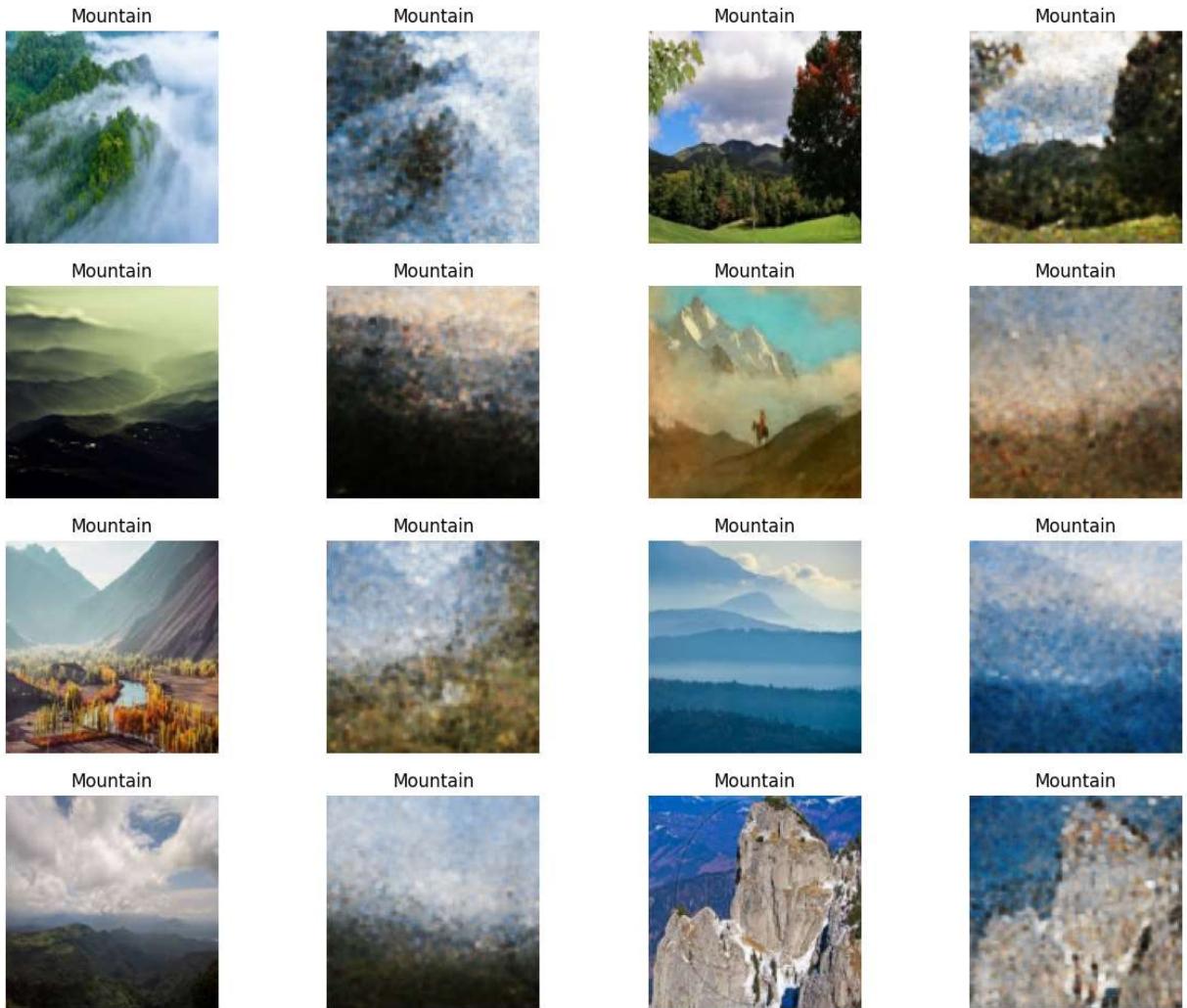
```
120/120 [=====] - 18s 148ms/step - loss: 38.3113 - reconstruction_error: 19.0949 - regularization_error: 19.2163 - val_loss: 69.6038 - val_reconstruction_error: 52.2688 - val_regularization_error: 17.3350
Epoch 532/1000
120/120 [=====] - 20s 166ms/step - loss: 38.4620 - reconstruction_error: 19.1757 - regularization_error: 19.2863 - val_loss: 70.1957 - val_reconstruction_error: 52.3188 - val_regularization_error: 17.8769
Epoch 533/1000
120/120 [=====] - 17s 140ms/step - loss: 38.5735 - reconstruction_error: 19.2804 - regularization_error: 19.2931 - val_loss: 70.9555 - val_reconstruction_error: 52.4751 - val_regularization_error: 18.4804
Epoch 534/1000
120/120 [=====] - 15s 122ms/step - loss: 38.3692 - reconstruction_error: 19.2342 - regularization_error: 19.1350 - val_loss: 69.3785 - val_reconstruction_error: 52.2162 - val_regularization_error: 17.1623
Epoch 535/1000
120/120 [=====] - 15s 123ms/step - loss: 38.3758 - reconstruction_error: 19.2121 - regularization_error: 19.1637 - val_loss: 69.0070 - val_reconstruction_error: 51.3248 - val_regularization_error: 17.6822
Epoch 536/1000
120/120 [=====] - 14s 114ms/step - loss: 38.4406 - reconstruction_error: 19.2575 - regularization_error: 19.1832 - val_loss: 70.5959 - val_reconstruction_error: 52.8637 - val_regularization_error: 17.7321
Epoch 537/1000
120/120 [=====] - 16s 136ms/step - loss: 38.4778 - reconstruction_error: 19.0781 - regularization_error: 19.3996 - val_loss: 68.8727 - val_reconstruction_error: 52.5819 - val_regularization_error: 16.2908
Epoch 538/1000
120/120 [=====] - 16s 135ms/step - loss: 38.5935 - reconstruction_error: 19.2855 - regularization_error: 19.3079 - val_loss: 71.5041 - val_reconstruction_error: 53.1503 - val_regularization_error: 18.3537
Epoch 539/1000
120/120 [=====] - 14s 119ms/step - loss: 38.2065 - reconstruction_error: 19.0489 - regularization_error: 19.1576 - val_loss: 70.5561 - val_reconstruction_error: 53.7853 - val_regularization_error: 16.7708
Epoch 540/1000
120/120 [=====] - 18s 150ms/step - loss: 38.0585 - reconstruction_error: 19.0215 - regularization_error: 19.0370 - val_loss: 70.1033 - val_reconstruction_error: 52.6650 - val_regularization_error: 17.4383
Epoch 541/1000
120/120 [=====] - ETA: 0s - loss: 38.2775 - reconstruction_error: 19.0944 - regularization_error: 19.1831
[2023-12-02 19:11:34.975943]: Reconstructing images for epoch 541 ...
```



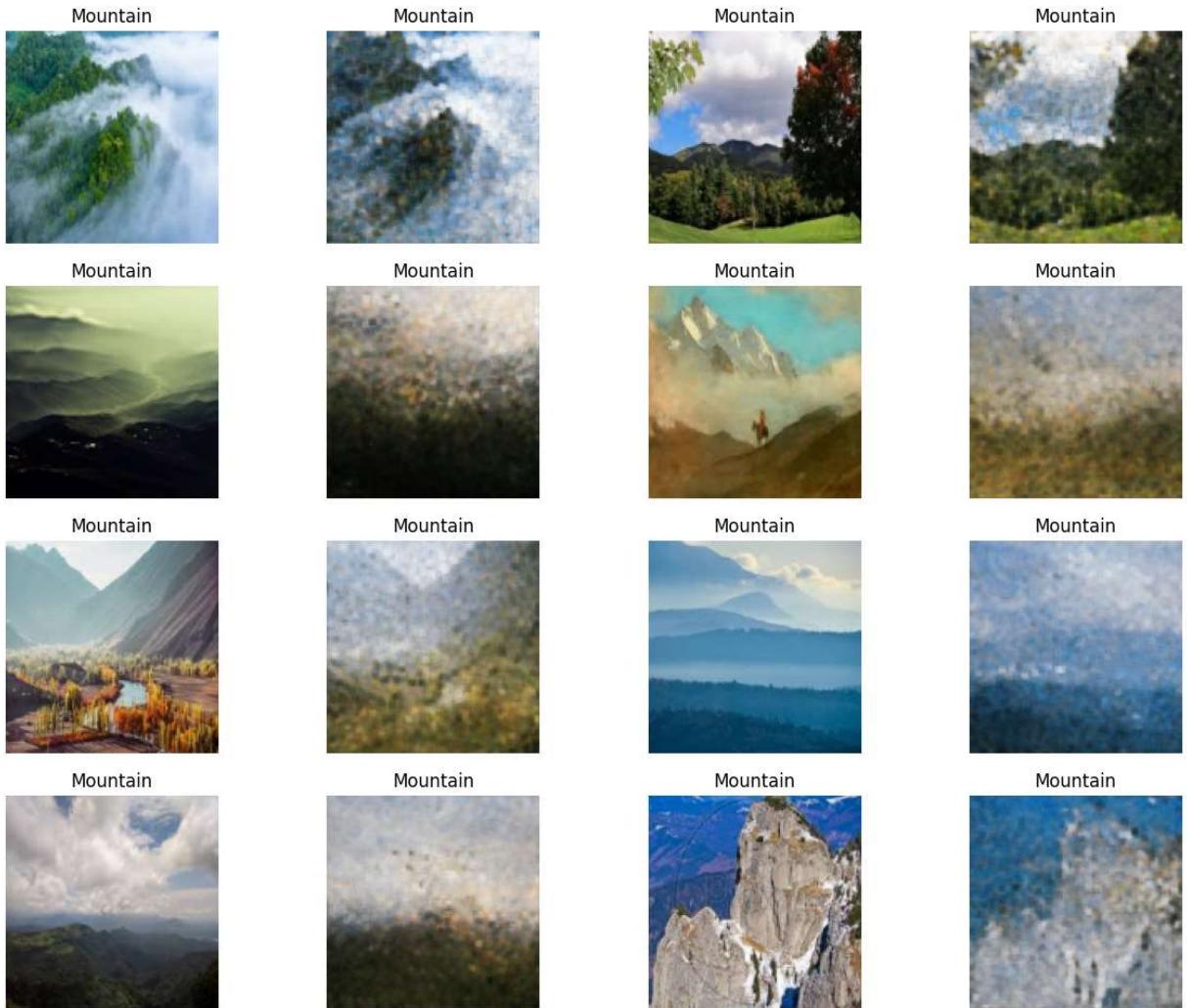
```
120/120 [=====] - 20s 164ms/step - loss: 38.2775 - reconstruction_error: 19.0944 - regularization_error: 19.1831 - val_loss: 68.9656 - val_reconstruction_error: 52.0025 - val_regularization_error: 16.9631
Epoch 542/1000
120/120 [=====] - 15s 123ms/step - loss: 38.4929 - reconstruction_error: 19.2251 - regularization_error: 19.2678 - val_loss: 70.7168 - val_reconstruction_error: 53.6688 - val_regularization_error: 17.0480
Epoch 543/1000
120/120 [=====] - 14s 117ms/step - loss: 38.5206 - reconstruction_error: 19.2497 - regularization_error: 19.2710 - val_loss: 71.0413 - val_reconstruction_error: 53.2039 - val_regularization_error: 17.8374
Epoch 544/1000
120/120 [=====] - 15s 119ms/step - loss: 38.5973 - reconstruction_error: 19.2548 - regularization_error: 19.3425 - val_loss: 70.5101 - val_reconstruction_error: 53.1009 - val_regularization_error: 17.4091
Epoch 545/1000
120/120 [=====] - 15s 122ms/step - loss: 38.4243 - reconstruction_error: 19.1749 - regularization_error: 19.2494 - val_loss: 70.0943 - val_reconstruction_error: 52.6396 - val_regularization_error: 17.4547
Epoch 546/1000
120/120 [=====] - 15s 124ms/step - loss: 38.3017 - reconstruction_error: 19.1063 - regularization_error: 19.1954 - val_loss: 69.9111 - val_reconstruction_error: 53.2899 - val_regularization_error: 16.6212
Epoch 547/1000
120/120 [=====] - 14s 115ms/step - loss: 38.5558 - reconstruction_error: 19.1832 - regularization_error: 19.3725 - val_loss: 70.2883 - val_reconstruction_error: 52.6985 - val_regularization_error: 17.5898
Epoch 548/1000
120/120 [=====] - 14s 112ms/step - loss: 38.1886 - reconstruction_error: 18.9324 - regularization_error: 19.2562 - val_loss: 69.1752 - val_reconstruction_error: 52.2645 - val_regularization_error: 16.9107
Epoch 549/1000
120/120 [=====] - 15s 124ms/step - loss: 38.4052 - reconstruction_error: 19.1572 - regularization_error: 19.2480 - val_loss: 69.8453 - val_reconstruction_error: 52.2299 - val_regularization_error: 17.6153
Epoch 550/1000
120/120 [=====] - 15s 124ms/step - loss: 38.2032 - reconstruction_error: 19.0553 - regularization_error: 19.1479 - val_loss: 70.3807 - val_reconstruction_error: 53.3132 - val_regularization_error: 17.0675
Epoch 551/1000
120/120 [=====] - ETA: 0s - loss: 38.3347 - reconstruction_error: 19.1074 - regularization_error: 19.2273
[2023-12-02 19:14:05.562497]: Reconstructing images for epoch 551 ...
```



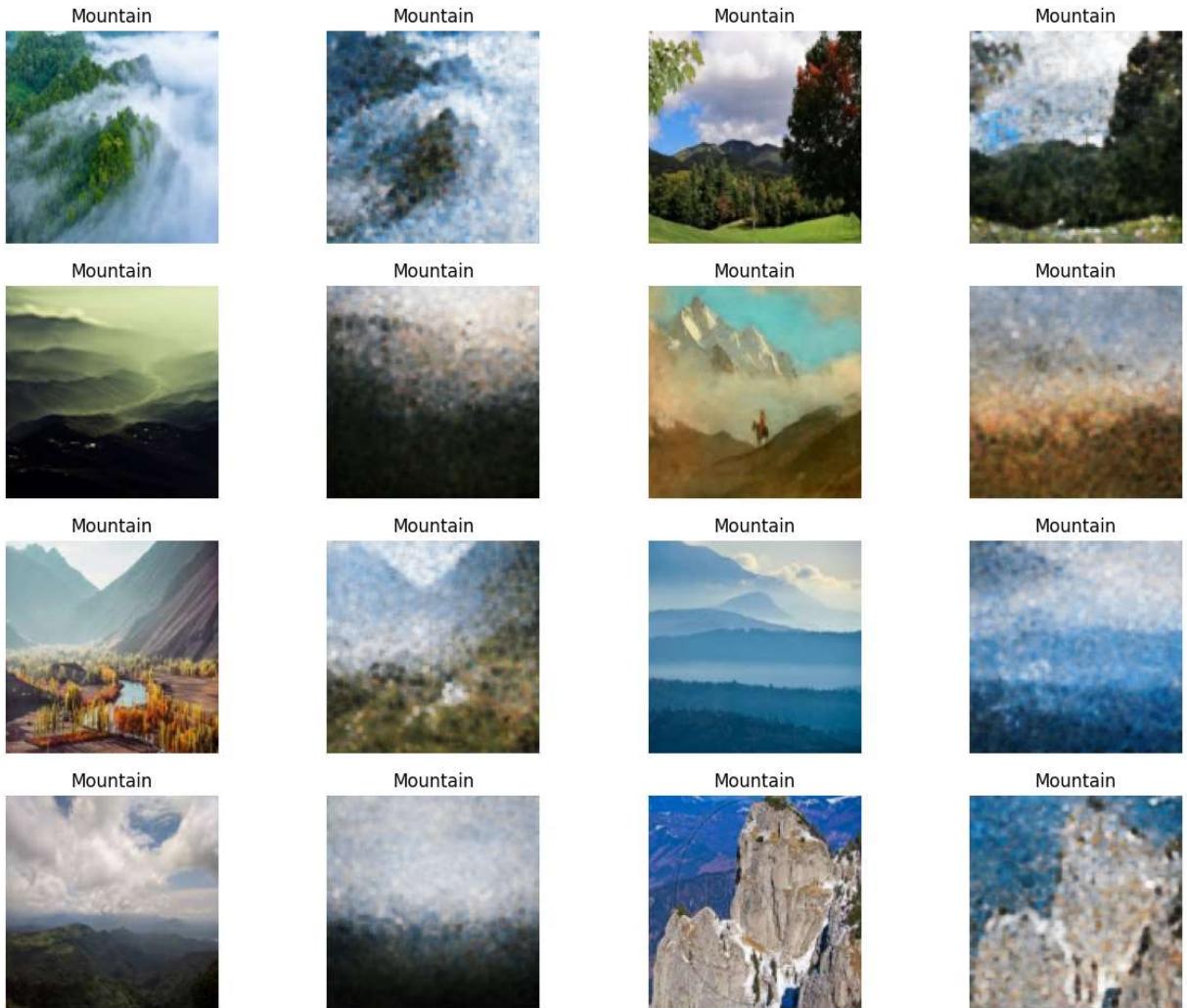
```
120/120 [=====] - 19s 162ms/step - loss: 38.3347 - reconstruction_error: 19.1074 - regularization_error: 19.2273 - val_loss: 71.0627 - val_reconstruction_error: 53.5194 - val_regularization_error: 17.5433
Epoch 552/1000
120/120 [=====] - 18s 147ms/step - loss: 38.2840 - reconstruction_error: 18.9694 - regularization_error: 19.3145 - val_loss: 69.9193 - val_reconstruction_error: 53.0177 - val_regularization_error: 16.9015
Epoch 553/1000
120/120 [=====] - 14s 115ms/step - loss: 38.4210 - reconstruction_error: 19.1469 - regularization_error: 19.2741 - val_loss: 71.7102 - val_reconstruction_error: 53.1016 - val_regularization_error: 18.6085
Epoch 554/1000
120/120 [=====] - 17s 142ms/step - loss: 38.3479 - reconstruction_error: 19.0946 - regularization_error: 19.2533 - val_loss: 70.5308 - val_reconstruction_error: 52.6615 - val_regularization_error: 17.8693
Epoch 555/1000
120/120 [=====] - 13s 105ms/step - loss: 38.2435 - reconstruction_error: 18.9333 - regularization_error: 19.3102 - val_loss: 70.0609 - val_reconstruction_error: 52.9556 - val_regularization_error: 17.1053
Epoch 556/1000
120/120 [=====] - 14s 114ms/step - loss: 38.2693 - reconstruction_error: 19.0661 - regularization_error: 19.2032 - val_loss: 70.2765 - val_reconstruction_error: 53.2449 - val_regularization_error: 17.0316
Epoch 557/1000
120/120 [=====] - 16s 131ms/step - loss: 38.3595 - reconstruction_error: 18.9924 - regularization_error: 19.3671 - val_loss: 69.9359 - val_reconstruction_error: 52.4080 - val_regularization_error: 17.5278
Epoch 558/1000
120/120 [=====] - 17s 138ms/step - loss: 38.2144 - reconstruction_error: 18.9755 - regularization_error: 19.2389 - val_loss: 70.7441 - val_reconstruction_error: 52.8664 - val_regularization_error: 17.8777
Epoch 559/1000
120/120 [=====] - 16s 132ms/step - loss: 38.1118 - reconstruction_error: 18.8954 - regularization_error: 19.2164 - val_loss: 70.0322 - val_reconstruction_error: 52.5778 - val_regularization_error: 17.4544
Epoch 560/1000
120/120 [=====] - 15s 128ms/step - loss: 38.1623 - reconstruction_error: 18.9660 - regularization_error: 19.1964 - val_loss: 69.9879 - val_reconstruction_error: 53.1543 - val_regularization_error: 16.8336
Epoch 561/1000
120/120 [=====] - ETA: 0s - loss: 38.4411 - reconstruction_error: 19.1395 - regularization_error: 19.3016
[2023-12-02 19:16:45.000844]: Reconstructing images for epoch 561 ...
```



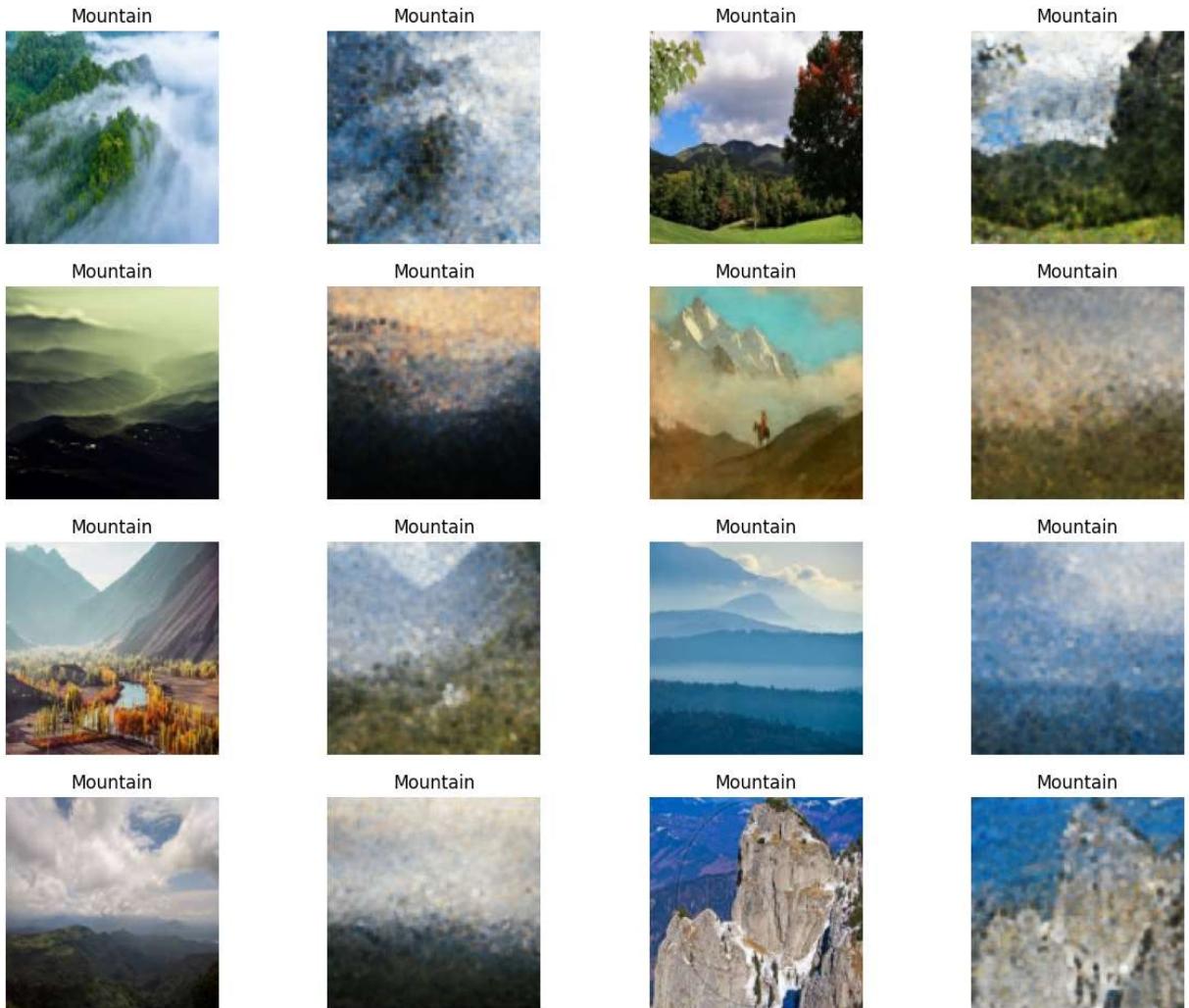
```
120/120 [=====] - 18s 151ms/step - loss: 38.4411 - reconstruction_error: 19.1395 - regularization_error: 19.3016 - val_loss: 70.2757 - val_reconstruction_error: 52.7920 - val_regularization_error: 17.4837
Epoch 562/1000
120/120 [=====] - 13s 107ms/step - loss: 38.4031 - reconstruction_error: 19.0560 - regularization_error: 19.3470 - val_loss: 71.0051 - val_reconstruction_error: 53.0147 - val_regularization_error: 17.9904
Epoch 563/1000
120/120 [=====] - 14s 119ms/step - loss: 38.2734 - reconstruction_error: 18.9180 - regularization_error: 19.3555 - val_loss: 70.5318 - val_reconstruction_error: 52.8722 - val_regularization_error: 17.6596
Epoch 564/1000
120/120 [=====] - 17s 140ms/step - loss: 38.3037 - reconstruction_error: 19.0007 - regularization_error: 19.3030 - val_loss: 69.8211 - val_reconstruction_error: 52.4612 - val_regularization_error: 17.3600
Epoch 565/1000
120/120 [=====] - 15s 125ms/step - loss: 38.1211 - reconstruction_error: 18.9639 - regularization_error: 19.1572 - val_loss: 69.8143 - val_reconstruction_error: 52.6485 - val_regularization_error: 17.1658
Epoch 566/1000
120/120 [=====] - 15s 123ms/step - loss: 38.0252 - reconstruction_error: 18.8785 - regularization_error: 19.1467 - val_loss: 69.5110 - val_reconstruction_error: 52.5346 - val_regularization_error: 16.9764
Epoch 567/1000
120/120 [=====] - 16s 137ms/step - loss: 38.1106 - reconstruction_error: 18.9094 - regularization_error: 19.2011 - val_loss: 70.5320 - val_reconstruction_error: 53.2854 - val_regularization_error: 17.2466
Epoch 568/1000
120/120 [=====] - 18s 148ms/step - loss: 38.0787 - reconstruction_error: 18.8999 - regularization_error: 19.1788 - val_loss: 70.4369 - val_reconstruction_error: 52.9788 - val_regularization_error: 17.4581
Epoch 569/1000
120/120 [=====] - 15s 120ms/step - loss: 38.2629 - reconstruction_error: 18.8784 - regularization_error: 19.3845 - val_loss: 70.0692 - val_reconstruction_error: 52.9437 - val_regularization_error: 17.1256
Epoch 570/1000
120/120 [=====] - 15s 128ms/step - loss: 37.9801 - reconstruction_error: 18.7439 - regularization_error: 19.2363 - val_loss: 70.4547 - val_reconstruction_error: 52.7723 - val_regularization_error: 17.6824
Epoch 571/1000
120/120 [=====] - ETA: 0s - loss: 38.0949 - reconstruction_error: 18.8585 - regularization_error: 19.2364
[2023-12-02 19:19:25.058179]: Reconstructing images for epoch 571 ...
```



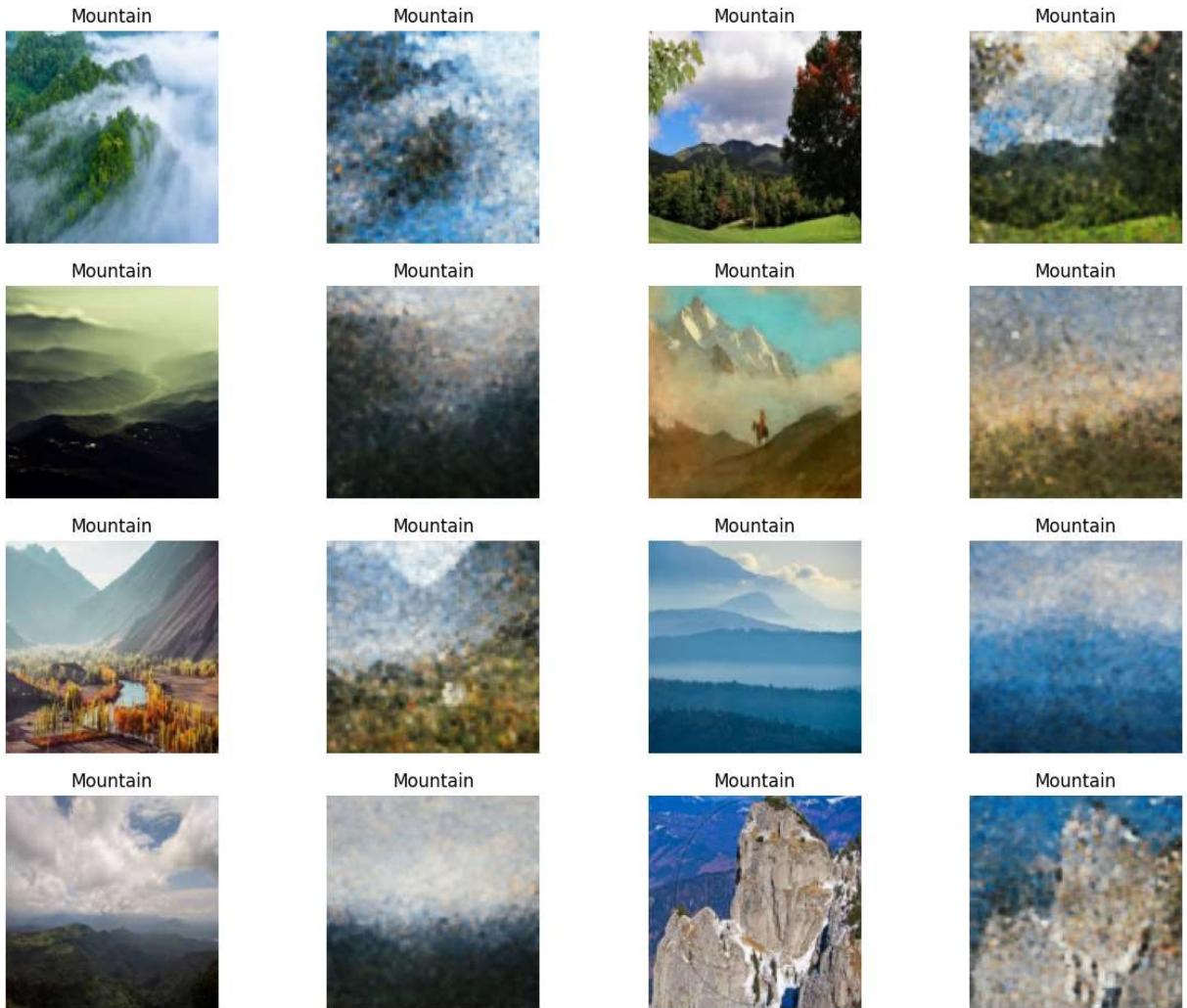
```
120/120 [=====] - 20s 164ms/step - loss: 38.0949 - reconstruction_error: 18.8585 - regularization_error: 19.2364 - val_loss: 69.0150 - val_reconstruction_error: 51.8539 - val_regularization_error: 17.1611
Epoch 572/1000
120/120 [=====] - 17s 143ms/step - loss: 38.1622 - reconstruction_error: 18.8916 - regularization_error: 19.2705 - val_loss: 70.8541 - val_reconstruction_error: 53.2789 - val_regularization_error: 17.5752
Epoch 573/1000
120/120 [=====] - 16s 132ms/step - loss: 38.2446 - reconstruction_error: 18.9195 - regularization_error: 19.3251 - val_loss: 70.0659 - val_reconstruction_error: 53.4273 - val_regularization_error: 16.6386
Epoch 574/1000
120/120 [=====] - 17s 138ms/step - loss: 38.0073 - reconstruction_error: 18.8205 - regularization_error: 19.1868 - val_loss: 70.2928 - val_reconstruction_error: 53.3791 - val_regularization_error: 16.9137
Epoch 575/1000
120/120 [=====] - 17s 135ms/step - loss: 38.0582 - reconstruction_error: 18.8797 - regularization_error: 19.1785 - val_loss: 70.2551 - val_reconstruction_error: 52.3425 - val_regularization_error: 17.9126
Epoch 576/1000
120/120 [=====] - 16s 135ms/step - loss: 37.9860 - reconstruction_error: 18.7279 - regularization_error: 19.2580 - val_loss: 70.6252 - val_reconstruction_error: 53.4887 - val_regularization_error: 17.1365
Epoch 577/1000
120/120 [=====] - 16s 135ms/step - loss: 38.1816 - reconstruction_error: 18.8762 - regularization_error: 19.3054 - val_loss: 69.8870 - val_reconstruction_error: 52.7517 - val_regularization_error: 17.1352
Epoch 578/1000
120/120 [=====] - 15s 126ms/step - loss: 38.1471 - reconstruction_error: 18.9349 - regularization_error: 19.2122 - val_loss: 69.1542 - val_reconstruction_error: 51.5490 - val_regularization_error: 17.6052
Epoch 579/1000
120/120 [=====] - 14s 113ms/step - loss: 38.0865 - reconstruction_error: 18.8355 - regularization_error: 19.2510 - val_loss: 69.6906 - val_reconstruction_error: 52.7289 - val_regularization_error: 16.9617
Epoch 580/1000
120/120 [=====] - 16s 133ms/step - loss: 37.8419 - reconstruction_error: 18.6982 - regularization_error: 19.1437 - val_loss: 69.7117 - val_reconstruction_error: 52.6934 - val_regularization_error: 17.0183
Epoch 581/1000
120/120 [=====] - ETA: 0s - loss: 38.0687 - reconstruction_error: 18.7533 - regularization_error: 19.3154
[2023-12-02 19:22:06.801106]: Reconstructing images for epoch 581 ...
```



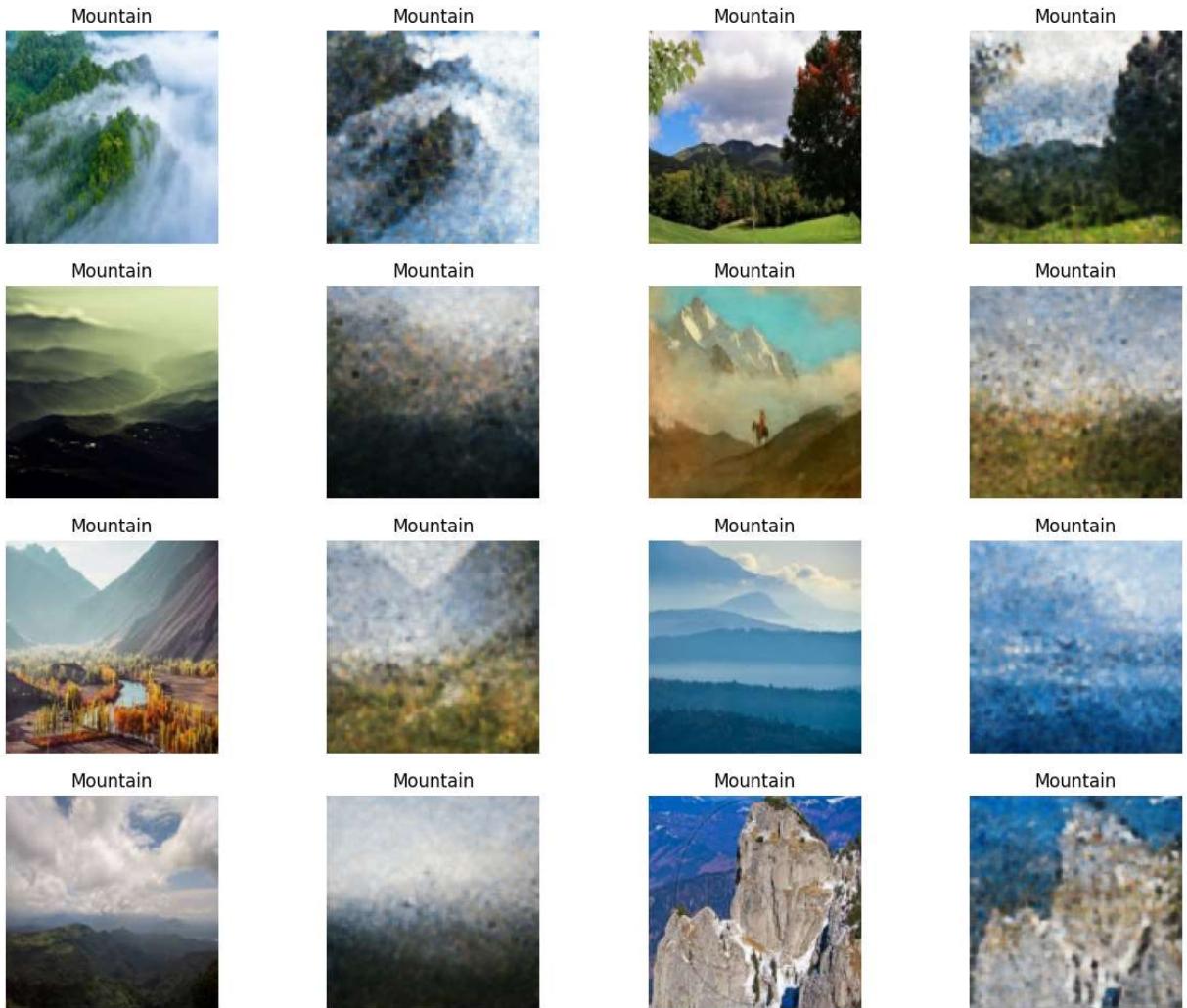
```
120/120 [=====] - 18s 146ms/step - loss: 38.0687 - reconstruction_error: 18.7533 - regularization_error: 19.3154 - val_loss: 71.3348 - val_reconstruction_error: 53.3567 - val_regularization_error: 17.9781
Epoch 582/1000
120/120 [=====] - 14s 111ms/step - loss: 38.0089 - reconstruction_error: 18.8286 - regularization_error: 19.1803 - val_loss: 69.9514 - val_reconstruction_error: 52.7979 - val_regularization_error: 17.1534
Epoch 583/1000
120/120 [=====] - 17s 140ms/step - loss: 38.0094 - reconstruction_error: 18.7027 - regularization_error: 19.3067 - val_loss: 69.8546 - val_reconstruction_error: 52.6693 - val_regularization_error: 17.1852
Epoch 584/1000
120/120 [=====] - 16s 128ms/step - loss: 37.8244 - reconstruction_error: 18.6973 - regularization_error: 19.1272 - val_loss: 69.9225 - val_reconstruction_error: 53.2679 - val_regularization_error: 16.6546
Epoch 585/1000
120/120 [=====] - 14s 115ms/step - loss: 38.2794 - reconstruction_error: 18.8811 - regularization_error: 19.3982 - val_loss: 70.0708 - val_reconstruction_error: 52.3150 - val_regularization_error: 17.7558
Epoch 586/1000
120/120 [=====] - 18s 148ms/step - loss: 37.7911 - reconstruction_error: 18.6625 - regularization_error: 19.1285 - val_loss: 69.0647 - val_reconstruction_error: 52.7675 - val_regularization_error: 16.2972
Epoch 587/1000
120/120 [=====] - 14s 120ms/step - loss: 37.9114 - reconstruction_error: 18.7378 - regularization_error: 19.1735 - val_loss: 69.8414 - val_reconstruction_error: 52.9404 - val_regularization_error: 16.9010
Epoch 588/1000
120/120 [=====] - 16s 127ms/step - loss: 37.9670 - reconstruction_error: 18.7006 - regularization_error: 19.2664 - val_loss: 70.5640 - val_reconstruction_error: 53.3754 - val_regularization_error: 17.1886
Epoch 589/1000
120/120 [=====] - 17s 142ms/step - loss: 37.8242 - reconstruction_error: 18.6496 - regularization_error: 19.1746 - val_loss: 69.1622 - val_reconstruction_error: 52.4826 - val_regularization_error: 16.6796
Epoch 590/1000
120/120 [=====] - 18s 146ms/step - loss: 38.0109 - reconstruction_error: 18.7895 - regularization_error: 19.2214 - val_loss: 70.0930 - val_reconstruction_error: 53.7417 - val_regularization_error: 16.3514
Epoch 591/1000
120/120 [=====] - ETA: 0s - loss: 37.8316 - reconstruction_error: 18.7037 - regularization_error: 19.1279
[2023-12-02 19:24:48.959708]: Reconstructing images for epoch 591 ...
```



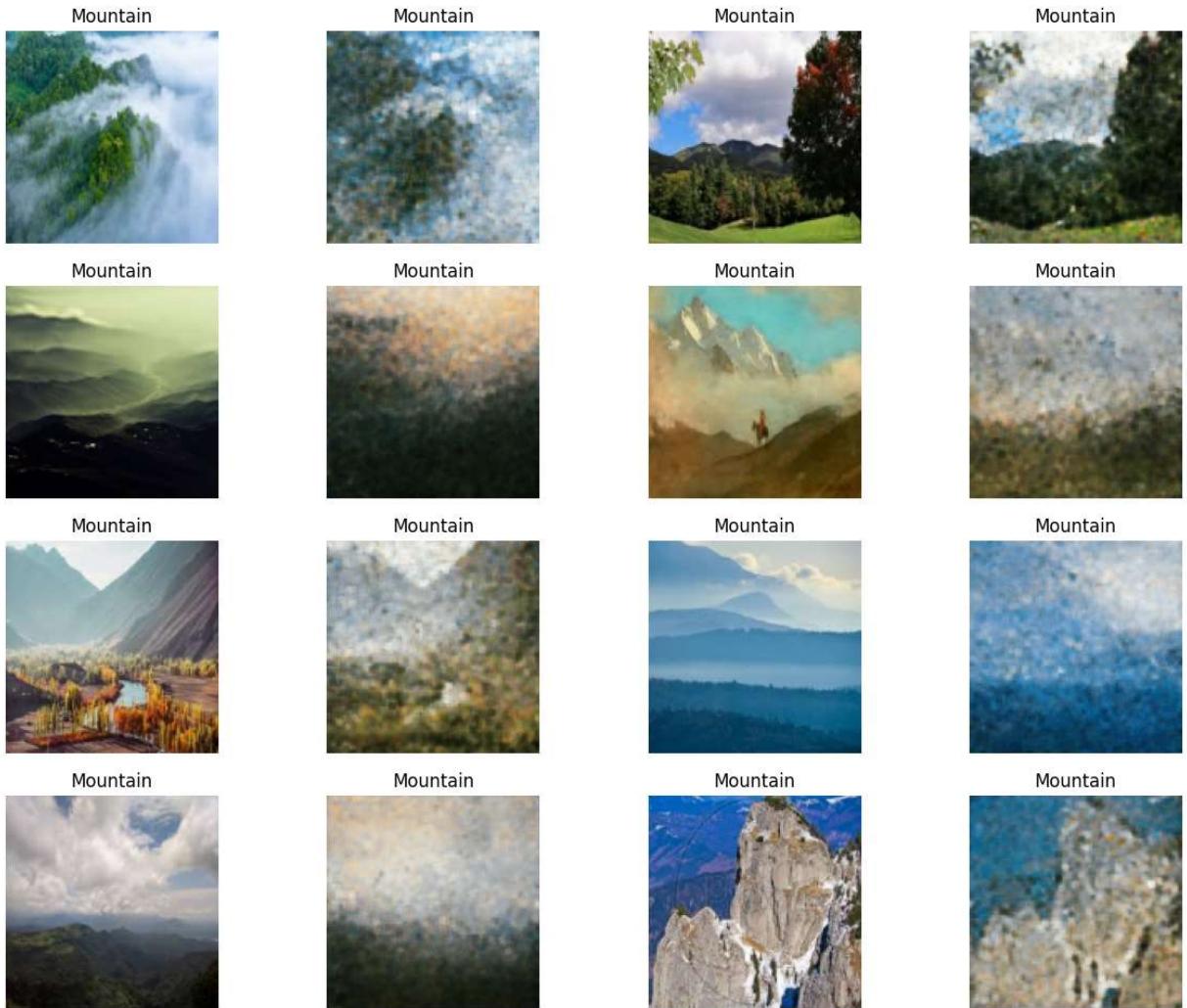
```
120/120 [=====] - 16s 132ms/step - loss: 37.8316 - reconstruction_error: 18.7037 - regularization_error: 19.1279 - val_loss: 70.0428 - val_reconstruction_error: 53.0104 - val_regularization_error: 17.0324
Epoch 592/1000
120/120 [=====] - 13s 106ms/step - loss: 37.8284 - reconstruction_error: 18.6587 - regularization_error: 19.1696 - val_loss: 69.6503 - val_reconstruction_error: 53.7069 - val_regularization_error: 15.9433
Epoch 593/1000
120/120 [=====] - 17s 140ms/step - loss: 37.9601 - reconstruction_error: 18.6908 - regularization_error: 19.2694 - val_loss: 70.1753 - val_reconstruction_error: 53.0448 - val_regularization_error: 17.1305
Epoch 594/1000
120/120 [=====] - 15s 125ms/step - loss: 37.8977 - reconstruction_error: 18.6595 - regularization_error: 19.2382 - val_loss: 69.4070 - val_reconstruction_error: 52.9823 - val_regularization_error: 16.4247
Epoch 595/1000
120/120 [=====] - 15s 121ms/step - loss: 37.9010 - reconstruction_error: 18.7491 - regularization_error: 19.1520 - val_loss: 69.1326 - val_reconstruction_error: 53.1415 - val_regularization_error: 15.9911
Epoch 596/1000
120/120 [=====] - 18s 151ms/step - loss: 37.7614 - reconstruction_error: 18.5354 - regularization_error: 19.2260 - val_loss: 69.4548 - val_reconstruction_error: 53.1850 - val_regularization_error: 16.2699
Epoch 597/1000
120/120 [=====] - 14s 115ms/step - loss: 37.9167 - reconstruction_error: 18.6526 - regularization_error: 19.2642 - val_loss: 69.7866 - val_reconstruction_error: 53.0801 - val_regularization_error: 16.7065
Epoch 598/1000
120/120 [=====] - 16s 133ms/step - loss: 37.7850 - reconstruction_error: 18.5800 - regularization_error: 19.2050 - val_loss: 70.1173 - val_reconstruction_error: 52.5130 - val_regularization_error: 17.6043
Epoch 599/1000
120/120 [=====] - 15s 126ms/step - loss: 37.7925 - reconstruction_error: 18.5792 - regularization_error: 19.2133 - val_loss: 69.8012 - val_reconstruction_error: 53.1329 - val_regularization_error: 16.6682
Epoch 600/1000
120/120 [=====] - 14s 115ms/step - loss: 38.1108 - reconstruction_error: 18.7761 - regularization_error: 19.3347 - val_loss: 70.9277 - val_reconstruction_error: 53.6766 - val_regularization_error: 17.2511
Epoch 601/1000
120/120 [=====] - ETA: 0s - loss: 37.8066 - reconstruction_error: 18.5120 - regularization_error: 19.2946
[2023-12-02 19:27:28.102571]: Reconstructing images for epoch 601 ...
```



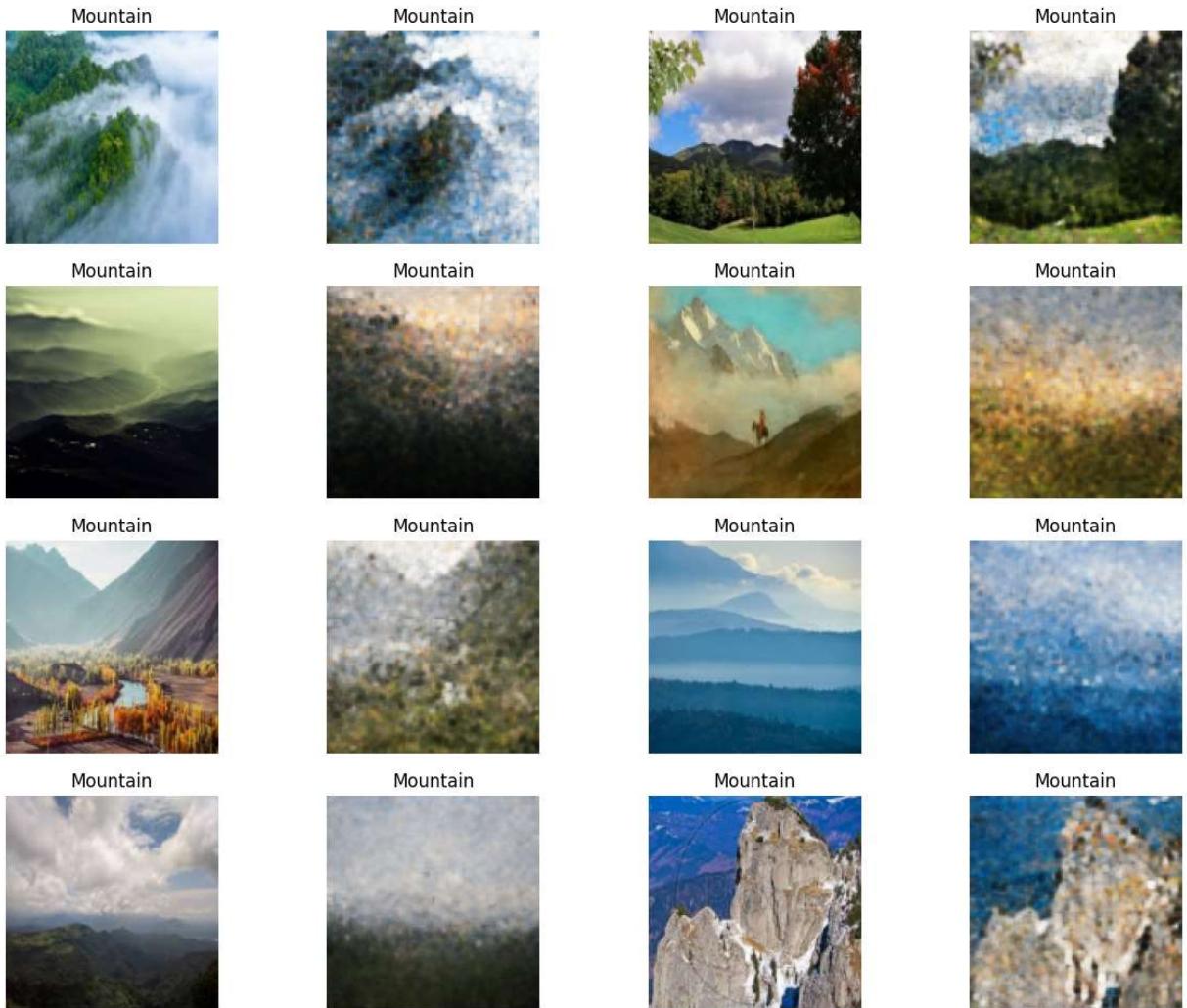
```
120/120 [=====] - 21s 177ms/step - loss: 37.8066 - reconstruction_error: 18.5120 - regularization_error: 19.2946 - val_loss: 70.2369 - val_reconstruction_error: 53.5400 - val_regularization_error: 16.6969
Epoch 602/1000
120/120 [=====] - 17s 140ms/step - loss: 37.8198 - reconstruction_error: 18.5667 - regularization_error: 19.2531 - val_loss: 71.0372 - val_reconstruction_error: 53.3383 - val_regularization_error: 17.6988
Epoch 603/1000
120/120 [=====] - 19s 154ms/step - loss: 37.8050 - reconstruction_error: 18.6908 - regularization_error: 19.1141 - val_loss: 70.1985 - val_reconstruction_error: 53.9757 - val_regularization_error: 16.2228
Epoch 604/1000
120/120 [=====] - 14s 115ms/step - loss: 37.6892 - reconstruction_error: 18.5244 - regularization_error: 19.1648 - val_loss: 69.0978 - val_reconstruction_error: 52.9184 - val_regularization_error: 16.1793
Epoch 605/1000
120/120 [=====] - 19s 154ms/step - loss: 37.9015 - reconstruction_error: 18.6330 - regularization_error: 19.2685 - val_loss: 72.2342 - val_reconstruction_error: 53.4752 - val_regularization_error: 18.7590
Epoch 606/1000
120/120 [=====] - 19s 154ms/step - loss: 37.6251 - reconstruction_error: 18.5743 - regularization_error: 19.0508 - val_loss: 69.8678 - val_reconstruction_error: 53.2835 - val_regularization_error: 16.5843
Epoch 607/1000
120/120 [=====] - 16s 133ms/step - loss: 37.6057 - reconstruction_error: 18.5143 - regularization_error: 19.0913 - val_loss: 70.2417 - val_reconstruction_error: 53.7572 - val_regularization_error: 16.4845
Epoch 608/1000
120/120 [=====] - 15s 121ms/step - loss: 37.7291 - reconstruction_error: 18.5355 - regularization_error: 19.1937 - val_loss: 70.3293 - val_reconstruction_error: 52.8734 - val_regularization_error: 17.4559
Epoch 609/1000
120/120 [=====] - 17s 137ms/step - loss: 37.6525 - reconstruction_error: 18.4881 - regularization_error: 19.1644 - val_loss: 71.0948 - val_reconstruction_error: 53.4591 - val_regularization_error: 17.6357
Epoch 610/1000
120/120 [=====] - 15s 124ms/step - loss: 37.8571 - reconstruction_error: 18.5524 - regularization_error: 19.3047 - val_loss: 71.0069 - val_reconstruction_error: 53.4381 - val_regularization_error: 17.5687
Epoch 611/1000
120/120 [=====] - ETA: 0s - loss: 37.7353 - reconstruction_error: 18.6429 - regularization_error: 19.0924
[2023-12-02 19:30:14.934618]: Reconstructing images for epoch 611 ...
```



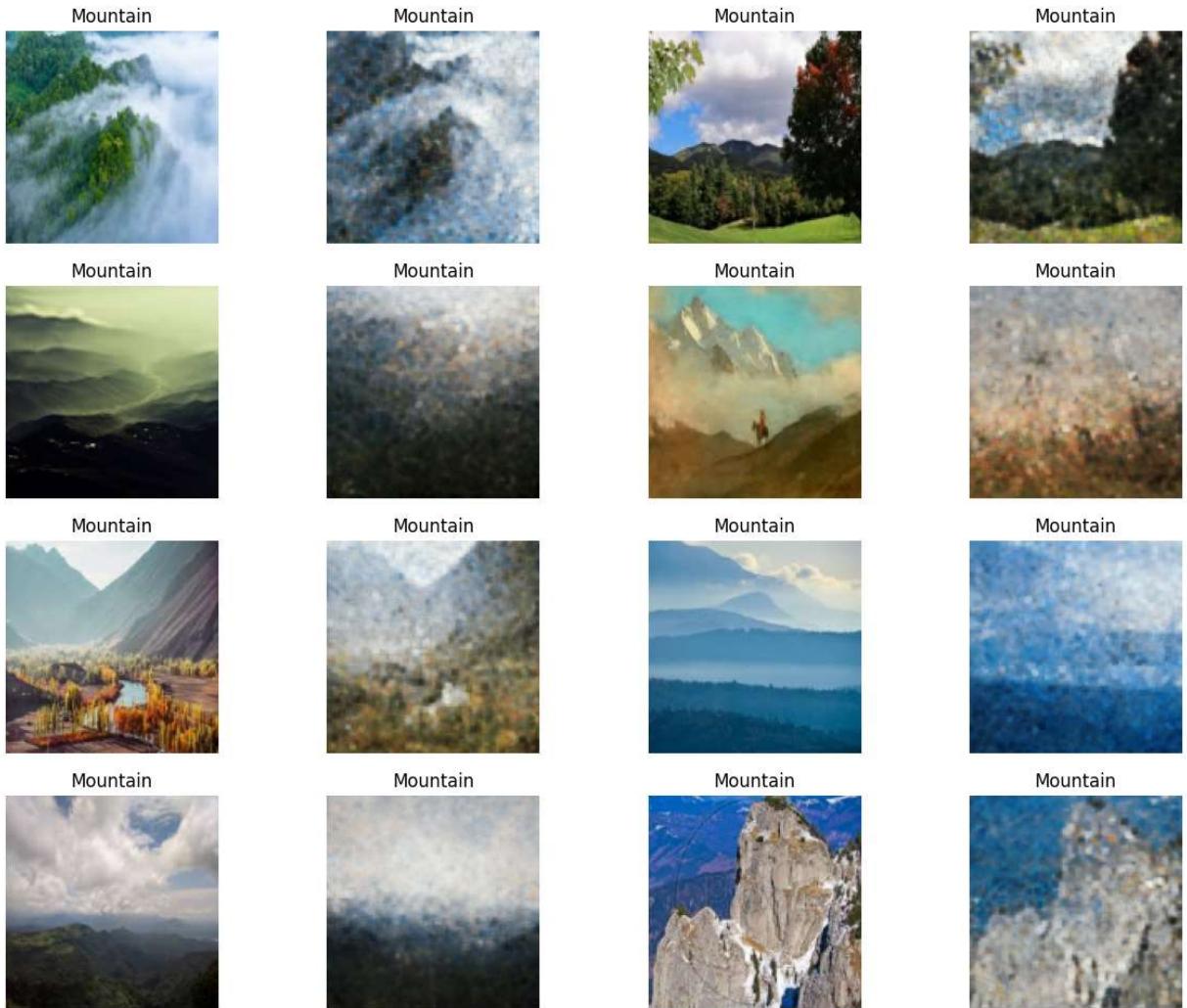
```
120/120 [=====] - 17s 137ms/step - loss: 37.7353 - reconstruction_error: 18.6429 - regularization_error: 19.0924 - val_loss: 70.3358 - val_reconstruction_error: 52.7778 - val_regularization_error: 17.5580
Epoch 612/1000
120/120 [=====] - 14s 120ms/step - loss: 37.6797 - reconstruction_error: 18.4447 - regularization_error: 19.2350 - val_loss: 69.4635 - val_reconstruction_error: 53.0244 - val_regularization_error: 16.4391
Epoch 613/1000
120/120 [=====] - 18s 147ms/step - loss: 37.7491 - reconstruction_error: 18.5751 - regularization_error: 19.1740 - val_loss: 69.7241 - val_reconstruction_error: 52.4593 - val_regularization_error: 17.2648
Epoch 614/1000
120/120 [=====] - 14s 119ms/step - loss: 37.7643 - reconstruction_error: 18.4572 - regularization_error: 19.3071 - val_loss: 70.9022 - val_reconstruction_error: 53.0795 - val_regularization_error: 17.8228
Epoch 615/1000
120/120 [=====] - 17s 141ms/step - loss: 37.6775 - reconstruction_error: 18.4769 - regularization_error: 19.2006 - val_loss: 71.2047 - val_reconstruction_error: 54.1125 - val_regularization_error: 17.0922
Epoch 616/1000
120/120 [=====] - 17s 138ms/step - loss: 37.5905 - reconstruction_error: 18.4647 - regularization_error: 19.1257 - val_loss: 70.6980 - val_reconstruction_error: 53.2852 - val_regularization_error: 17.4128
Epoch 617/1000
120/120 [=====] - 14s 114ms/step - loss: 37.7192 - reconstruction_error: 18.4754 - regularization_error: 19.2438 - val_loss: 71.3852 - val_reconstruction_error: 52.7730 - val_regularization_error: 18.6122
Epoch 618/1000
120/120 [=====] - 14s 111ms/step - loss: 37.7720 - reconstruction_error: 18.4987 - regularization_error: 19.2733 - val_loss: 69.3014 - val_reconstruction_error: 52.7203 - val_regularization_error: 16.5811
Epoch 619/1000
120/120 [=====] - 16s 130ms/step - loss: 37.5859 - reconstruction_error: 18.4421 - regularization_error: 19.1439 - val_loss: 71.5318 - val_reconstruction_error: 53.3112 - val_regularization_error: 18.2206
Epoch 620/1000
120/120 [=====] - 15s 126ms/step - loss: 37.4603 - reconstruction_error: 18.3547 - regularization_error: 19.1056 - val_loss: 69.0871 - val_reconstruction_error: 52.9416 - val_regularization_error: 16.1454
Epoch 621/1000
120/120 [=====] - ETA: 0s - loss: 37.4142 - reconstruction_error: 18.2941 - regularization_error: 19.1201
[2023-12-02 19:32:53.336276]: Reconstructing images for epoch 621 ...
```



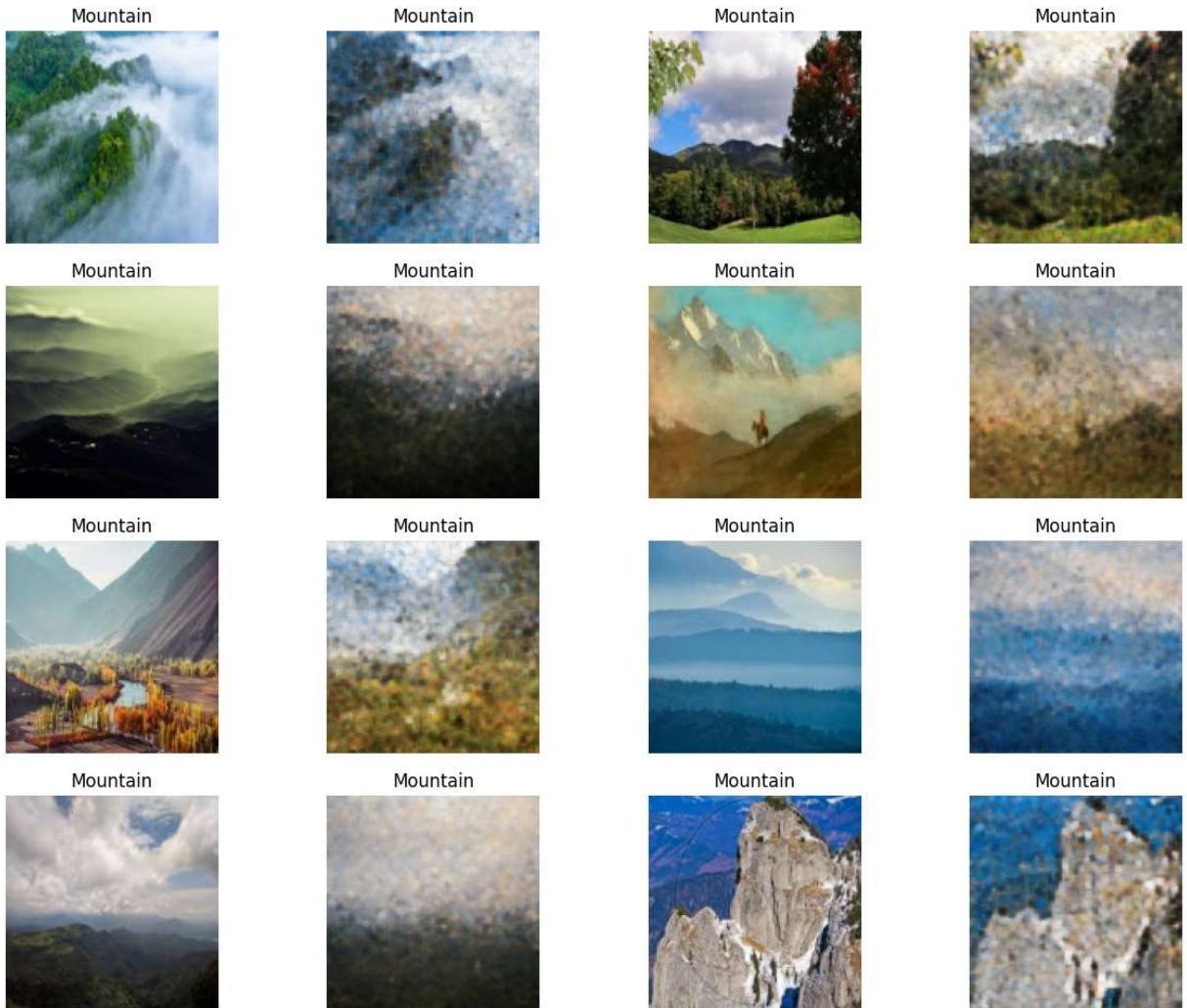
```
120/120 [=====] - 19s 160ms/step - loss: 37.4142 - reconstruction_error: 18.2941 - regularization_error: 19.1201 - val_loss: 70.3502 - val_reconstruction_error: 53.1194 - val_regularization_error: 17.2308
Epoch 622/1000
120/120 [=====] - 16s 134ms/step - loss: 37.6244 - reconstruction_error: 18.4582 - regularization_error: 19.1662 - val_loss: 70.0918 - val_reconstruction_error: 53.3354 - val_regularization_error: 16.7565
Epoch 623/1000
120/120 [=====] - 18s 151ms/step - loss: 37.5555 - reconstruction_error: 18.4123 - regularization_error: 19.1431 - val_loss: 70.9346 - val_reconstruction_error: 53.8591 - val_regularization_error: 17.0755
Epoch 624/1000
120/120 [=====] - 17s 139ms/step - loss: 37.8226 - reconstruction_error: 18.5822 - regularization_error: 19.2405 - val_loss: 69.8794 - val_reconstruction_error: 53.1091 - val_regularization_error: 16.7704
Epoch 625/1000
120/120 [=====] - 18s 145ms/step - loss: 37.8087 - reconstruction_error: 18.6083 - regularization_error: 19.2004 - val_loss: 71.0175 - val_reconstruction_error: 52.0232 - val_regularization_error: 18.9943
Epoch 626/1000
120/120 [=====] - 16s 132ms/step - loss: 37.5354 - reconstruction_error: 18.4082 - regularization_error: 19.1273 - val_loss: 71.0193 - val_reconstruction_error: 54.4287 - val_regularization_error: 16.5906
Epoch 627/1000
120/120 [=====] - 15s 126ms/step - loss: 37.4867 - reconstruction_error: 18.3313 - regularization_error: 19.1554 - val_loss: 70.1023 - val_reconstruction_error: 53.1839 - val_regularization_error: 16.9184
Epoch 628/1000
120/120 [=====] - 17s 142ms/step - loss: 37.4269 - reconstruction_error: 18.3253 - regularization_error: 19.1016 - val_loss: 70.2852 - val_reconstruction_error: 53.3430 - val_regularization_error: 16.9422
Epoch 629/1000
120/120 [=====] - 15s 121ms/step - loss: 37.6161 - reconstruction_error: 18.3978 - regularization_error: 19.2183 - val_loss: 70.3948 - val_reconstruction_error: 53.8007 - val_regularization_error: 16.5941
Epoch 630/1000
120/120 [=====] - 18s 146ms/step - loss: 37.4657 - reconstruction_error: 18.2720 - regularization_error: 19.1937 - val_loss: 70.4437 - val_reconstruction_error: 52.1861 - val_regularization_error: 18.2576
Epoch 631/1000
120/120 [=====] - ETA: 0s - loss: 37.6849 - reconstruction_error: 18.4788 - regularization_error: 19.2061
[2023-12-02 19:35:44.463032]: Reconstructing images for epoch 631 ...
```



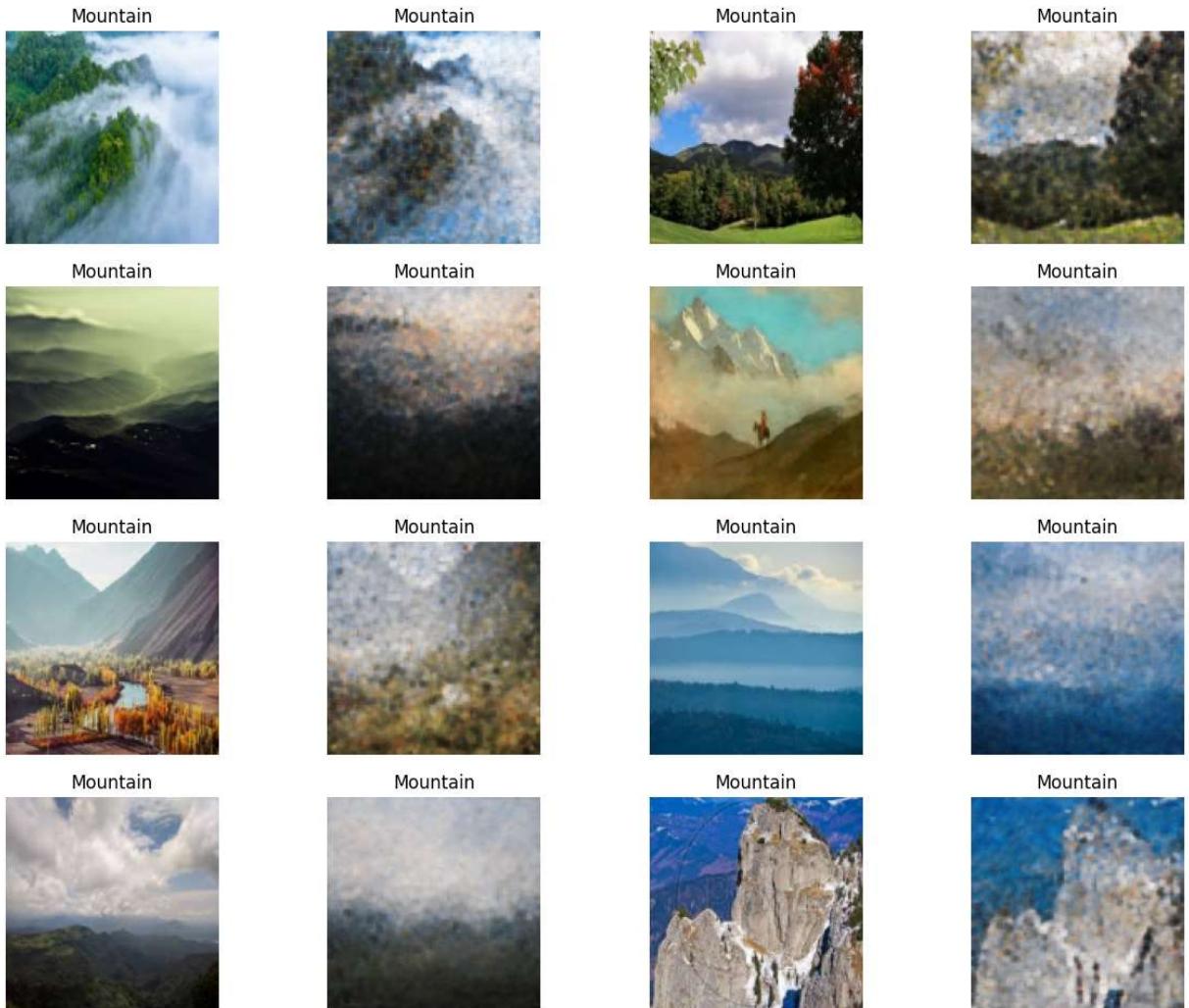
```
120/120 [=====] - 18s 152ms/step - loss: 37.6849 - reconstruction_error: 18.4788 - regularization_error: 19.2061 - val_loss: 71.0417 - val_reconstruction_error: 53.6754 - val_regularization_error: 17.3663
Epoch 632/1000
120/120 [=====] - 16s 131ms/step - loss: 37.5799 - reconstruction_error: 18.3854 - regularization_error: 19.1944 - val_loss: 70.7992 - val_reconstruction_error: 53.1222 - val_regularization_error: 17.6769
Epoch 633/1000
120/120 [=====] - 17s 139ms/step - loss: 37.5600 - reconstruction_error: 18.2270 - regularization_error: 19.3330 - val_loss: 70.5748 - val_reconstruction_error: 53.0831 - val_regularization_error: 17.4918
Epoch 634/1000
120/120 [=====] - 16s 133ms/step - loss: 37.5116 - reconstruction_error: 18.3334 - regularization_error: 19.1781 - val_loss: 70.6468 - val_reconstruction_error: 52.5590 - val_regularization_error: 18.0878
Epoch 635/1000
120/120 [=====] - 15s 129ms/step - loss: 37.5169 - reconstruction_error: 18.3290 - regularization_error: 19.1879 - val_loss: 71.4485 - val_reconstruction_error: 53.4262 - val_regularization_error: 18.0223
Epoch 636/1000
120/120 [=====] - 16s 133ms/step - loss: 37.4828 - reconstruction_error: 18.3367 - regularization_error: 19.1461 - val_loss: 70.3179 - val_reconstruction_error: 53.6996 - val_regularization_error: 16.6183
Epoch 637/1000
120/120 [=====] - 18s 152ms/step - loss: 37.4817 - reconstruction_error: 18.3357 - regularization_error: 19.1460 - val_loss: 70.6897 - val_reconstruction_error: 54.4858 - val_regularization_error: 16.2039
Epoch 638/1000
120/120 [=====] - 15s 126ms/step - loss: 37.4116 - reconstruction_error: 18.2988 - regularization_error: 19.1127 - val_loss: 70.0167 - val_reconstruction_error: 53.5610 - val_regularization_error: 16.4557
Epoch 639/1000
120/120 [=====] - 18s 146ms/step - loss: 37.5014 - reconstruction_error: 18.3794 - regularization_error: 19.1220 - val_loss: 69.0139 - val_reconstruction_error: 52.6909 - val_regularization_error: 16.3230
Epoch 640/1000
120/120 [=====] - 15s 129ms/step - loss: 37.3760 - reconstruction_error: 18.2842 - regularization_error: 19.0919 - val_loss: 69.8344 - val_reconstruction_error: 52.3953 - val_regularization_error: 17.4391
Epoch 641/1000
120/120 [=====] - ETA: 0s - loss: 37.3440 - reconstruction_error: 18.2192 - regularization_error: 19.1248
[2023-12-02 19:38:36.545350]: Reconstructing images for epoch 641 ...
```



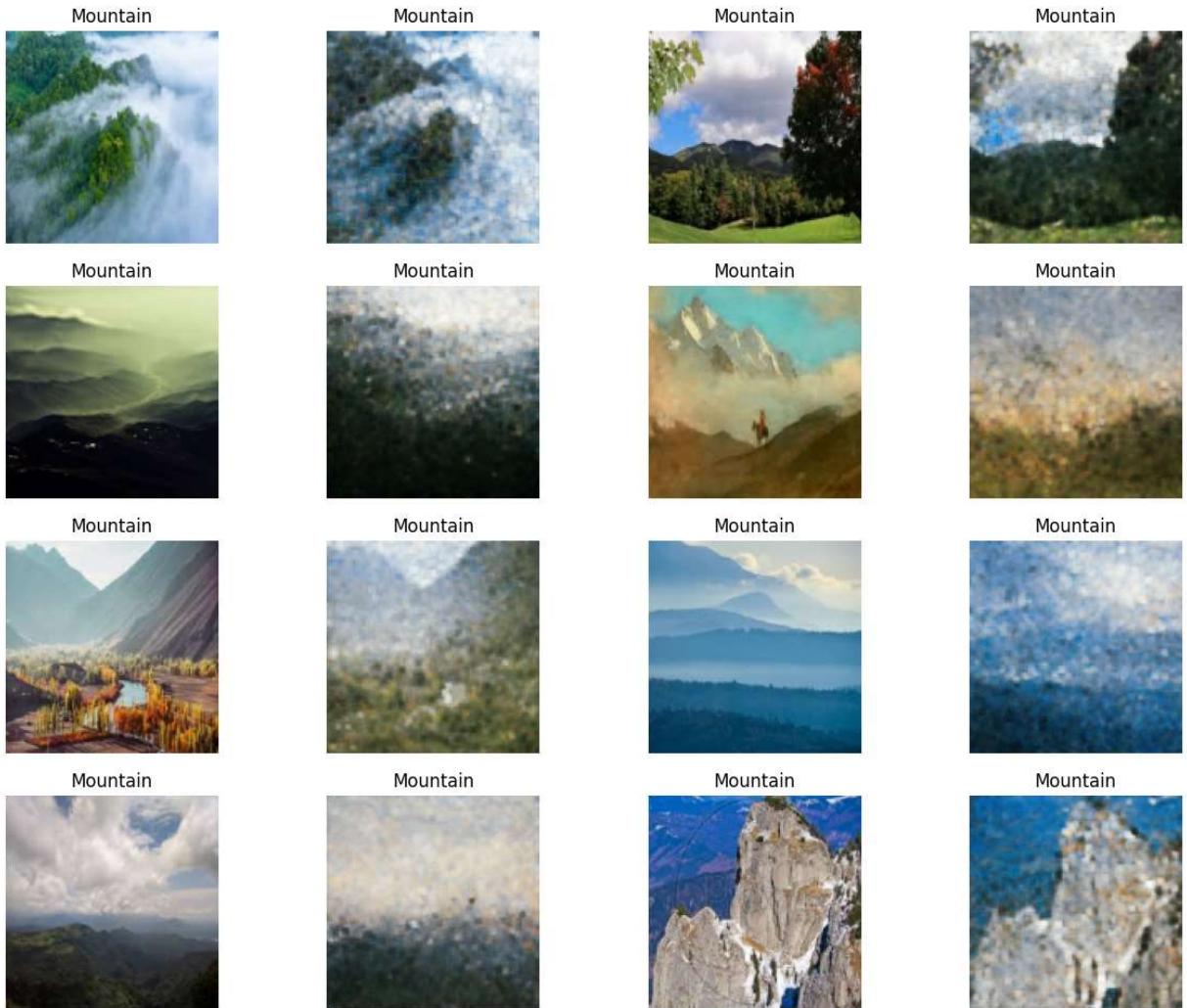
```
120/120 [=====] - 19s 157ms/step - loss: 37.3440 - reconstruction_error: 18.2192 - regularization_error: 19.1248 - val_loss: 69.7322 - val_reconstruction_error: 53.2378 - val_regularization_error: 16.4944
Epoch 642/1000
120/120 [=====] - 17s 137ms/step - loss: 37.3805 - reconstruction_error: 18.2779 - regularization_error: 19.1026 - val_loss: 71.0958 - val_reconstruction_error: 54.2460 - val_regularization_error: 16.8499
Epoch 643/1000
120/120 [=====] - 16s 135ms/step - loss: 37.5283 - reconstruction_error: 18.3821 - regularization_error: 19.1461 - val_loss: 69.2972 - val_reconstruction_error: 52.9634 - val_regularization_error: 16.3338
Epoch 644/1000
120/120 [=====] - 15s 128ms/step - loss: 37.4109 - reconstruction_error: 18.2136 - regularization_error: 19.1973 - val_loss: 69.7530 - val_reconstruction_error: 52.0663 - val_regularization_error: 17.6866
Epoch 645/1000
120/120 [=====] - 15s 121ms/step - loss: 37.4131 - reconstruction_error: 18.1784 - regularization_error: 19.2347 - val_loss: 70.1937 - val_reconstruction_error: 53.1755 - val_regularization_error: 17.0183
Epoch 646/1000
120/120 [=====] - 16s 131ms/step - loss: 37.3986 - reconstruction_error: 18.2151 - regularization_error: 19.1835 - val_loss: 70.1478 - val_reconstruction_error: 52.5983 - val_regularization_error: 17.5495
Epoch 647/1000
120/120 [=====] - 17s 139ms/step - loss: 37.4545 - reconstruction_error: 18.3343 - regularization_error: 19.1202 - val_loss: 71.4853 - val_reconstruction_error: 54.4794 - val_regularization_error: 17.0059
Epoch 648/1000
120/120 [=====] - 13s 108ms/step - loss: 37.5206 - reconstruction_error: 18.3795 - regularization_error: 19.1411 - val_loss: 70.5820 - val_reconstruction_error: 52.5049 - val_regularization_error: 18.0772
Epoch 649/1000
120/120 [=====] - 18s 145ms/step - loss: 37.4175 - reconstruction_error: 18.2039 - regularization_error: 19.2136 - val_loss: 69.9179 - val_reconstruction_error: 52.4894 - val_regularization_error: 17.4285
Epoch 650/1000
120/120 [=====] - 17s 142ms/step - loss: 37.6323 - reconstruction_error: 18.2995 - regularization_error: 19.3327 - val_loss: 70.1949 - val_reconstruction_error: 53.0729 - val_regularization_error: 17.1220
Epoch 651/1000
120/120 [=====] - ETA: 0s - loss: 37.4370 - reconstruction_error: 18.1384 - regularization_error: 19.2986
[2023-12-02 19:41:21.695190]: Reconstructing images for epoch 651 ...
```



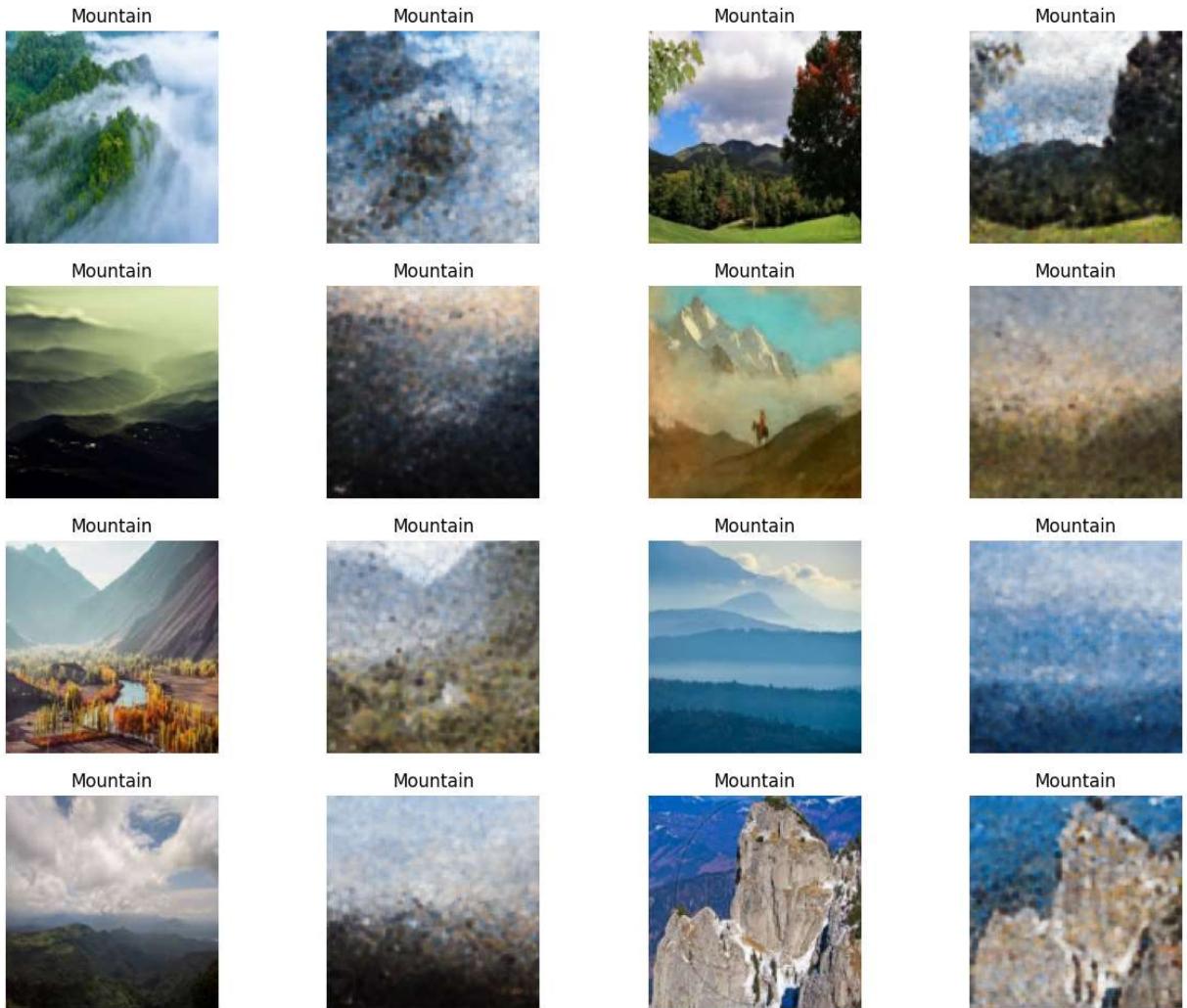
```
120/120 [=====] - 19s 156ms/step - loss: 37.4370 - reconstruction_error: 18.1384 - regularization_error: 19.2986 - val_loss: 70.5333 - val_reconstruction_error: 53.6405 - val_regularization_error: 16.8928
Epoch 652/1000
120/120 [=====] - 17s 141ms/step - loss: 37.4468 - reconstruction_error: 18.2844 - regularization_error: 19.1624 - val_loss: 69.8477 - val_reconstruction_error: 53.2582 - val_regularization_error: 16.5895
Epoch 653/1000
120/120 [=====] - 14s 115ms/step - loss: 37.4632 - reconstruction_error: 18.2020 - regularization_error: 19.2612 - val_loss: 69.9748 - val_reconstruction_error: 52.6936 - val_regularization_error: 17.2812
Epoch 654/1000
120/120 [=====] - 13s 111ms/step - loss: 37.4113 - reconstruction_error: 18.1983 - regularization_error: 19.2130 - val_loss: 72.7206 - val_reconstruction_error: 55.3605 - val_regularization_error: 17.3601
Epoch 655/1000
120/120 [=====] - 16s 135ms/step - loss: 37.5602 - reconstruction_error: 18.2345 - regularization_error: 19.3256 - val_loss: 71.5508 - val_reconstruction_error: 53.8160 - val_regularization_error: 17.7347
Epoch 656/1000
120/120 [=====] - 15s 122ms/step - loss: 37.3072 - reconstruction_error: 18.2887 - regularization_error: 19.0185 - val_loss: 70.7113 - val_reconstruction_error: 53.5755 - val_regularization_error: 17.1358
Epoch 657/1000
120/120 [=====] - 15s 124ms/step - loss: 37.4570 - reconstruction_error: 18.2429 - regularization_error: 19.2141 - val_loss: 71.1884 - val_reconstruction_error: 53.8575 - val_regularization_error: 17.3309
Epoch 658/1000
120/120 [=====] - 17s 145ms/step - loss: 37.4369 - reconstruction_error: 18.2466 - regularization_error: 19.1903 - val_loss: 70.0406 - val_reconstruction_error: 52.9564 - val_regularization_error: 17.0841
Epoch 659/1000
120/120 [=====] - 18s 152ms/step - loss: 37.3597 - reconstruction_error: 18.0954 - regularization_error: 19.2643 - val_loss: 70.9204 - val_reconstruction_error: 53.0210 - val_regularization_error: 17.8993
Epoch 660/1000
120/120 [=====] - 18s 151ms/step - loss: 37.4101 - reconstruction_error: 18.1485 - regularization_error: 19.2615 - val_loss: 70.4517 - val_reconstruction_error: 52.9181 - val_regularization_error: 17.5336
Epoch 661/1000
120/120 [=====] - ETA: 0s - loss: 37.1865 - reconstruction_error: 18.1146 - regularization_error: 19.0720
[2023-12-02 19:44:03.249680]: Reconstructing images for epoch 661 ...
```



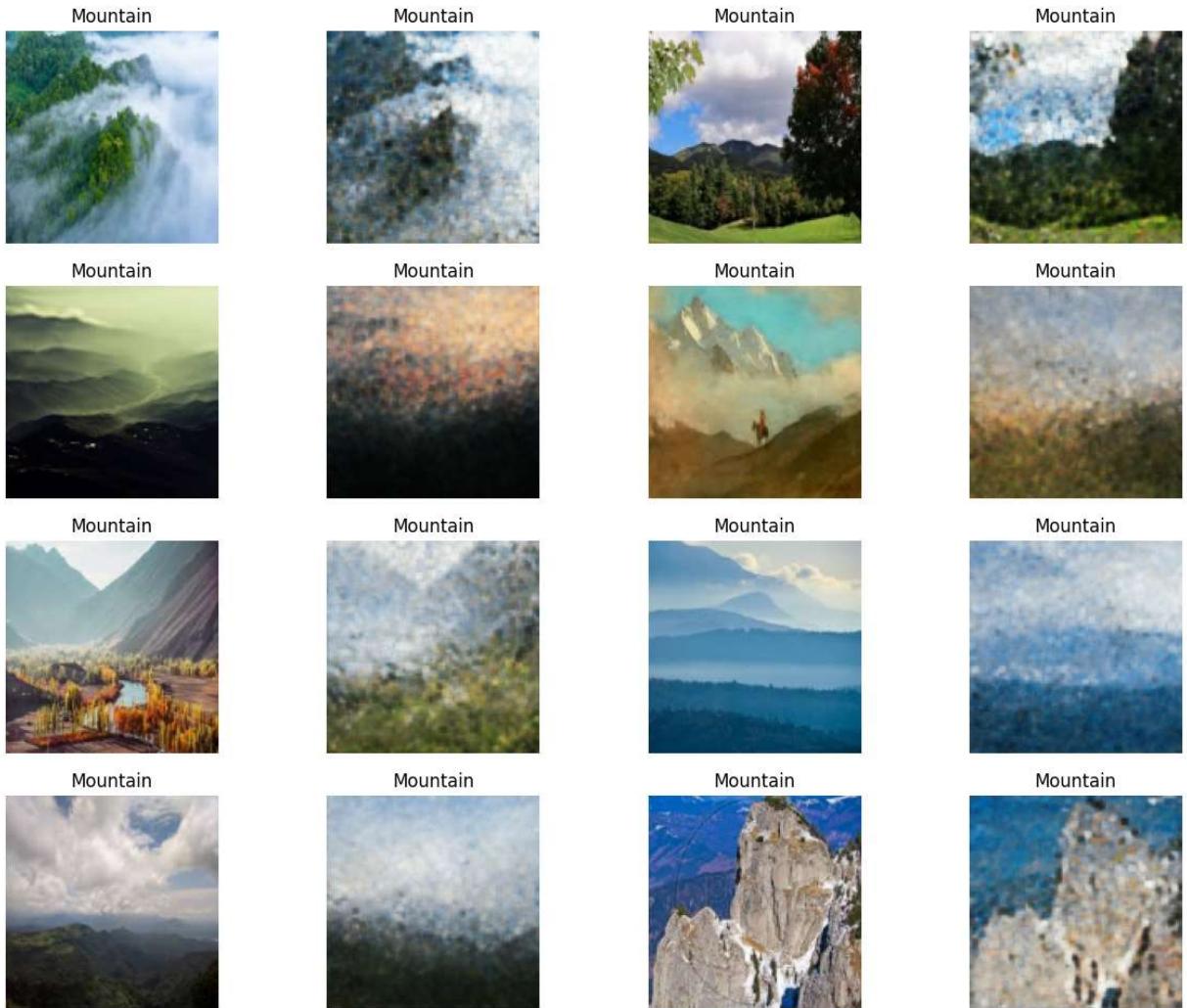
```
120/120 [=====] - 16s 137ms/step - loss: 37.1865 - reconstruction_error: 18.1146 - regularization_error: 19.0720 - val_loss: 69.6105 - val_reconstruction_error: 52.9112 - val_regularization_error: 16.6993
Epoch 662/1000
120/120 [=====] - 16s 136ms/step - loss: 37.4235 - reconstruction_error: 18.2124 - regularization_error: 19.2110 - val_loss: 71.3393 - val_reconstruction_error: 54.1689 - val_regularization_error: 17.1705
Epoch 663/1000
120/120 [=====] - 15s 128ms/step - loss: 37.5078 - reconstruction_error: 18.3152 - regularization_error: 19.1926 - val_loss: 70.8065 - val_reconstruction_error: 53.1084 - val_regularization_error: 17.6981
Epoch 664/1000
120/120 [=====] - 17s 138ms/step - loss: 37.1457 - reconstruction_error: 17.9662 - regularization_error: 19.1794 - val_loss: 70.7008 - val_reconstruction_error: 53.9482 - val_regularization_error: 16.7526
Epoch 665/1000
120/120 [=====] - 15s 126ms/step - loss: 37.5086 - reconstruction_error: 18.2778 - regularization_error: 19.2307 - val_loss: 71.4774 - val_reconstruction_error: 54.5499 - val_regularization_error: 16.9275
Epoch 666/1000
120/120 [=====] - 18s 149ms/step - loss: 37.0011 - reconstruction_error: 17.9148 - regularization_error: 19.0864 - val_loss: 69.6187 - val_reconstruction_error: 53.4129 - val_regularization_error: 16.2058
Epoch 667/1000
120/120 [=====] - 16s 130ms/step - loss: 37.3701 - reconstruction_error: 18.1328 - regularization_error: 19.2372 - val_loss: 70.5004 - val_reconstruction_error: 53.9095 - val_regularization_error: 16.5909
Epoch 668/1000
120/120 [=====] - 15s 126ms/step - loss: 37.4218 - reconstruction_error: 18.2547 - regularization_error: 19.1671 - val_loss: 72.4437 - val_reconstruction_error: 53.7827 - val_regularization_error: 18.6611
Epoch 669/1000
120/120 [=====] - 13s 111ms/step - loss: 37.1732 - reconstruction_error: 18.1355 - regularization_error: 19.0377 - val_loss: 71.4987 - val_reconstruction_error: 54.3339 - val_regularization_error: 17.1648
Epoch 670/1000
120/120 [=====] - 16s 129ms/step - loss: 37.2587 - reconstruction_error: 18.0961 - regularization_error: 19.1626 - val_loss: 71.3245 - val_reconstruction_error: 53.3265 - val_regularization_error: 17.9981
Epoch 671/1000
120/120 [=====] - ETA: 0s - loss: 37.4351 - reconstruction_error: 18.2090 - regularization_error: 19.2262
[2023-12-02 19:46:45.811235]: Reconstructing images for epoch 671 ...
```



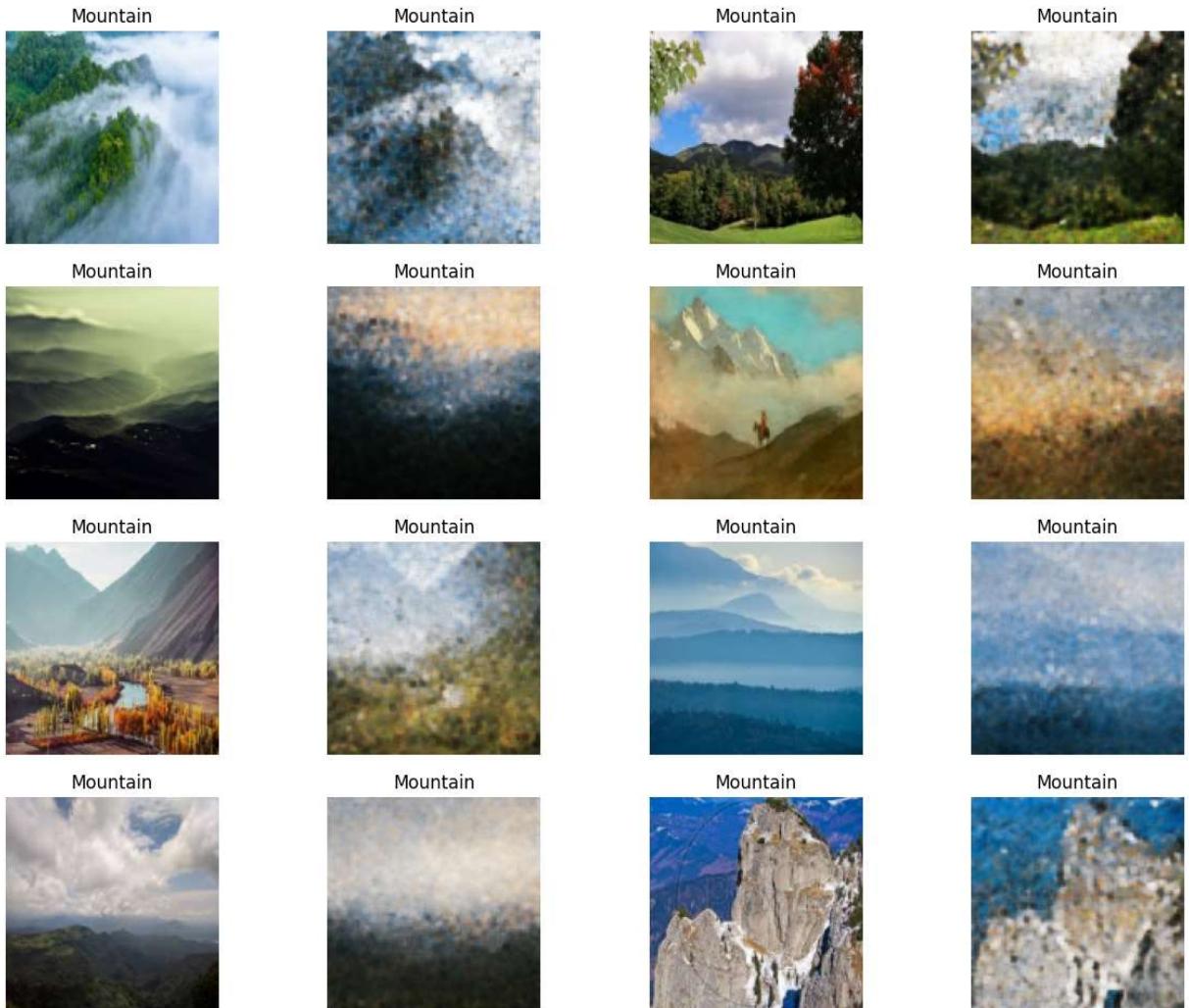
```
120/120 [=====] - 18s 153ms/step - loss: 37.4351 - reconstruction_error: 18.2090 - regularization_error: 19.2262 - val_loss: 70.5752 - val_reconstruction_error: 53.0614 - val_regularization_error: 17.5138
Epoch 672/1000
120/120 [=====] - 18s 150ms/step - loss: 36.9996 - reconstruction_error: 17.9601 - regularization_error: 19.0395 - val_loss: 71.2499 - val_reconstruction_error: 53.4048 - val_regularization_error: 17.8451
Epoch 673/1000
120/120 [=====] - 15s 124ms/step - loss: 37.1123 - reconstruction_error: 18.0589 - regularization_error: 19.0534 - val_loss: 70.0330 - val_reconstruction_error: 53.2940 - val_regularization_error: 16.7389
Epoch 674/1000
120/120 [=====] - 14s 114ms/step - loss: 37.1469 - reconstruction_error: 17.9810 - regularization_error: 19.1659 - val_loss: 71.2926 - val_reconstruction_error: 53.4086 - val_regularization_error: 17.8840
Epoch 675/1000
120/120 [=====] - 16s 134ms/step - loss: 37.1926 - reconstruction_error: 18.0765 - regularization_error: 19.1161 - val_loss: 71.2123 - val_reconstruction_error: 54.0016 - val_regularization_error: 17.2107
Epoch 676/1000
120/120 [=====] - 15s 124ms/step - loss: 37.2460 - reconstruction_error: 18.0729 - regularization_error: 19.1732 - val_loss: 70.2439 - val_reconstruction_error: 52.6449 - val_regularization_error: 17.5990
Epoch 677/1000
120/120 [=====] - 15s 120ms/step - loss: 37.1213 - reconstruction_error: 18.0045 - regularization_error: 19.1168 - val_loss: 70.5555 - val_reconstruction_error: 52.4591 - val_regularization_error: 18.0964
Epoch 678/1000
120/120 [=====] - 17s 138ms/step - loss: 37.2686 - reconstruction_error: 18.0558 - regularization_error: 19.2128 - val_loss: 71.3296 - val_reconstruction_error: 54.3510 - val_regularization_error: 16.9786
Epoch 679/1000
120/120 [=====] - 16s 136ms/step - loss: 37.0603 - reconstruction_error: 18.0128 - regularization_error: 19.0476 - val_loss: 70.2045 - val_reconstruction_error: 53.8842 - val_regularization_error: 16.3203
Epoch 680/1000
120/120 [=====] - 15s 125ms/step - loss: 37.1069 - reconstruction_error: 18.1401 - regularization_error: 18.9669 - val_loss: 70.8879 - val_reconstruction_error: 53.5485 - val_regularization_error: 17.3394
Epoch 681/1000
120/120 [=====] - ETA: 0s - loss: 37.0039 - reconstruction_error: 17.9613 - regularization_error: 19.0426
[2023-12-02 19:49:27.582393]: Reconstructing images for epoch 681 ...
```



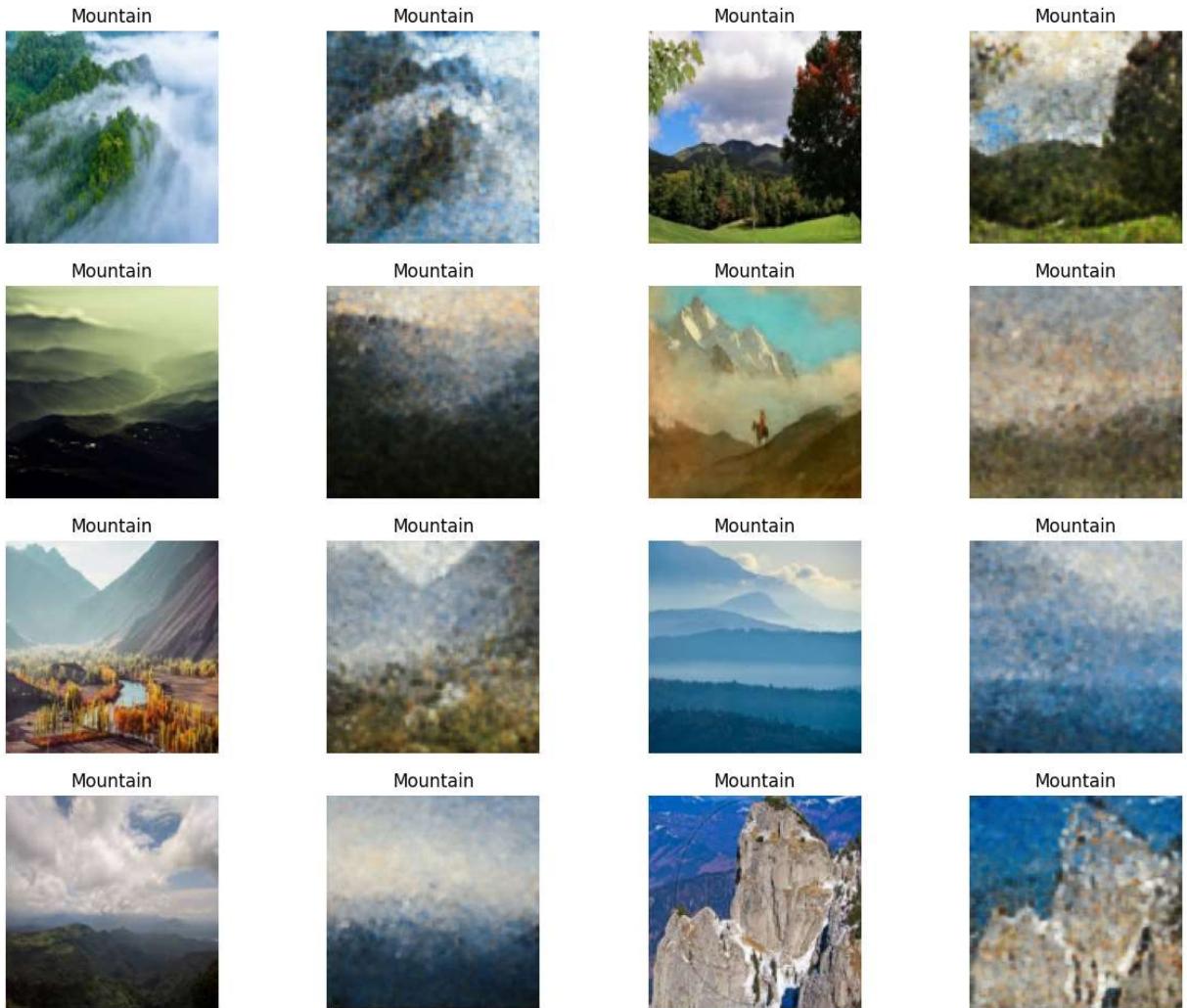
```
120/120 [=====] - 18s 144ms/step - loss: 37.0039 - reconstruction_error: 17.9613 - regularization_error: 19.0426 - val_loss: 70.4653 - val_reconstruction_error: 53.7070 - val_regularization_error: 16.7583
Epoch 682/1000
120/120 [=====] - 15s 129ms/step - loss: 37.2584 - reconstruction_error: 18.0548 - regularization_error: 19.2037 - val_loss: 72.5102 - val_reconstruction_error: 54.3962 - val_regularization_error: 18.1140
Epoch 683/1000
120/120 [=====] - 14s 114ms/step - loss: 37.1483 - reconstruction_error: 18.0271 - regularization_error: 19.1212 - val_loss: 70.8477 - val_reconstruction_error: 53.4654 - val_regularization_error: 17.3824
Epoch 684/1000
120/120 [=====] - 16s 131ms/step - loss: 37.1925 - reconstruction_error: 17.9455 - regularization_error: 19.2470 - val_loss: 70.1801 - val_reconstruction_error: 53.8993 - val_regularization_error: 16.2808
Epoch 685/1000
120/120 [=====] - 16s 132ms/step - loss: 37.2357 - reconstruction_error: 18.0395 - regularization_error: 19.1962 - val_loss: 72.2566 - val_reconstruction_error: 54.4871 - val_regularization_error: 17.7695
Epoch 686/1000
120/120 [=====] - 15s 128ms/step - loss: 37.1167 - reconstruction_error: 17.9740 - regularization_error: 19.1428 - val_loss: 69.6029 - val_reconstruction_error: 52.3227 - val_regularization_error: 17.2803
Epoch 687/1000
120/120 [=====] - 18s 148ms/step - loss: 37.0982 - reconstruction_error: 17.8839 - regularization_error: 19.2143 - val_loss: 71.0639 - val_reconstruction_error: 53.6688 - val_regularization_error: 17.3951
Epoch 688/1000
120/120 [=====] - 18s 150ms/step - loss: 37.2365 - reconstruction_error: 18.0585 - regularization_error: 19.1779 - val_loss: 69.5462 - val_reconstruction_error: 52.9115 - val_regularization_error: 16.6346
Epoch 689/1000
120/120 [=====] - 17s 139ms/step - loss: 36.9009 - reconstruction_error: 17.8258 - regularization_error: 19.0751 - val_loss: 70.9551 - val_reconstruction_error: 53.9504 - val_regularization_error: 17.0047
Epoch 690/1000
120/120 [=====] - 19s 154ms/step - loss: 36.9709 - reconstruction_error: 17.9691 - regularization_error: 19.0018 - val_loss: 69.4530 - val_reconstruction_error: 52.7250 - val_regularization_error: 16.7280
Epoch 691/1000
119/120 [=====.>.] - ETA: 0s - loss: 36.9740 - reconstruction_error: 17.8829 - regularization_error: 19.0911
[2023-12-02 19:52:15.179446]: Reconstructing images for epoch 691 ...
```



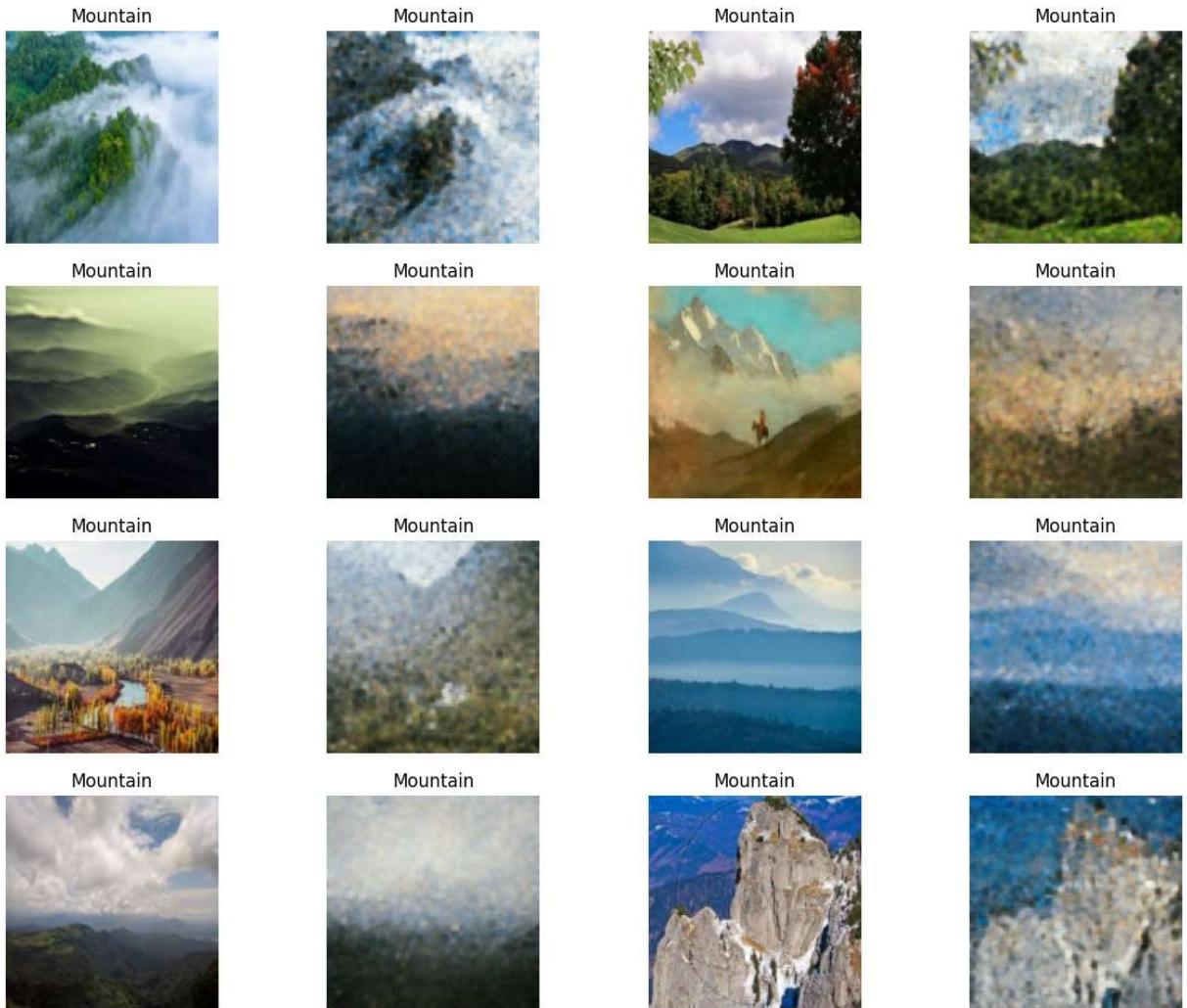
```
120/120 [=====] - 18s 151ms/step - loss: 36.9467 - reconstruction_error: 17.8674 - regularization_error: 19.0793 - val_loss: 70.6014 - val_reconstruction_error: 53.1037 - val_regularization_error: 17.4977
Epoch 692/1000
120/120 [=====] - 16s 136ms/step - loss: 37.0977 - reconstruction_error: 17.9304 - regularization_error: 19.1673 - val_loss: 70.5406 - val_reconstruction_error: 53.1600 - val_regularization_error: 17.3806
Epoch 693/1000
120/120 [=====] - 19s 157ms/step - loss: 36.9548 - reconstruction_error: 17.8520 - regularization_error: 19.1029 - val_loss: 70.5774 - val_reconstruction_error: 53.4518 - val_regularization_error: 17.1256
Epoch 694/1000
120/120 [=====] - 15s 123ms/step - loss: 37.2210 - reconstruction_error: 17.9829 - regularization_error: 19.2382 - val_loss: 70.5121 - val_reconstruction_error: 52.6639 - val_regularization_error: 17.8483
Epoch 695/1000
120/120 [=====] - 16s 134ms/step - loss: 37.0375 - reconstruction_error: 17.9060 - regularization_error: 19.1315 - val_loss: 70.8413 - val_reconstruction_error: 53.7176 - val_regularization_error: 17.1237
Epoch 696/1000
120/120 [=====] - 14s 114ms/step - loss: 36.9620 - reconstruction_error: 17.8913 - regularization_error: 19.0707 - val_loss: 69.4068 - val_reconstruction_error: 52.2773 - val_regularization_error: 17.1295
Epoch 697/1000
120/120 [=====] - 15s 125ms/step - loss: 37.1230 - reconstruction_error: 17.8728 - regularization_error: 19.2502 - val_loss: 71.4157 - val_reconstruction_error: 54.3831 - val_regularization_error: 17.0326
Epoch 698/1000
120/120 [=====] - 14s 112ms/step - loss: 36.9488 - reconstruction_error: 17.9019 - regularization_error: 19.0469 - val_loss: 71.1390 - val_reconstruction_error: 54.5750 - val_regularization_error: 16.5641
Epoch 699/1000
120/120 [=====] - 16s 133ms/step - loss: 37.3107 - reconstruction_error: 18.0882 - regularization_error: 19.2225 - val_loss: 70.4136 - val_reconstruction_error: 53.1723 - val_regularization_error: 17.2413
Epoch 700/1000
120/120 [=====] - 16s 133ms/step - loss: 37.1981 - reconstruction_error: 17.8976 - regularization_error: 19.3004 - val_loss: 72.9515 - val_reconstruction_error: 55.9339 - val_regularization_error: 17.0176
Epoch 701/1000
119/120 [=====.>.] - ETA: 0s - loss: 36.8826 - reconstruction_error: 17.7959 - regularization_error: 19.0866
[2023-12-02 19:54:56.580931]: Reconstructing images for epoch 701 ...
```



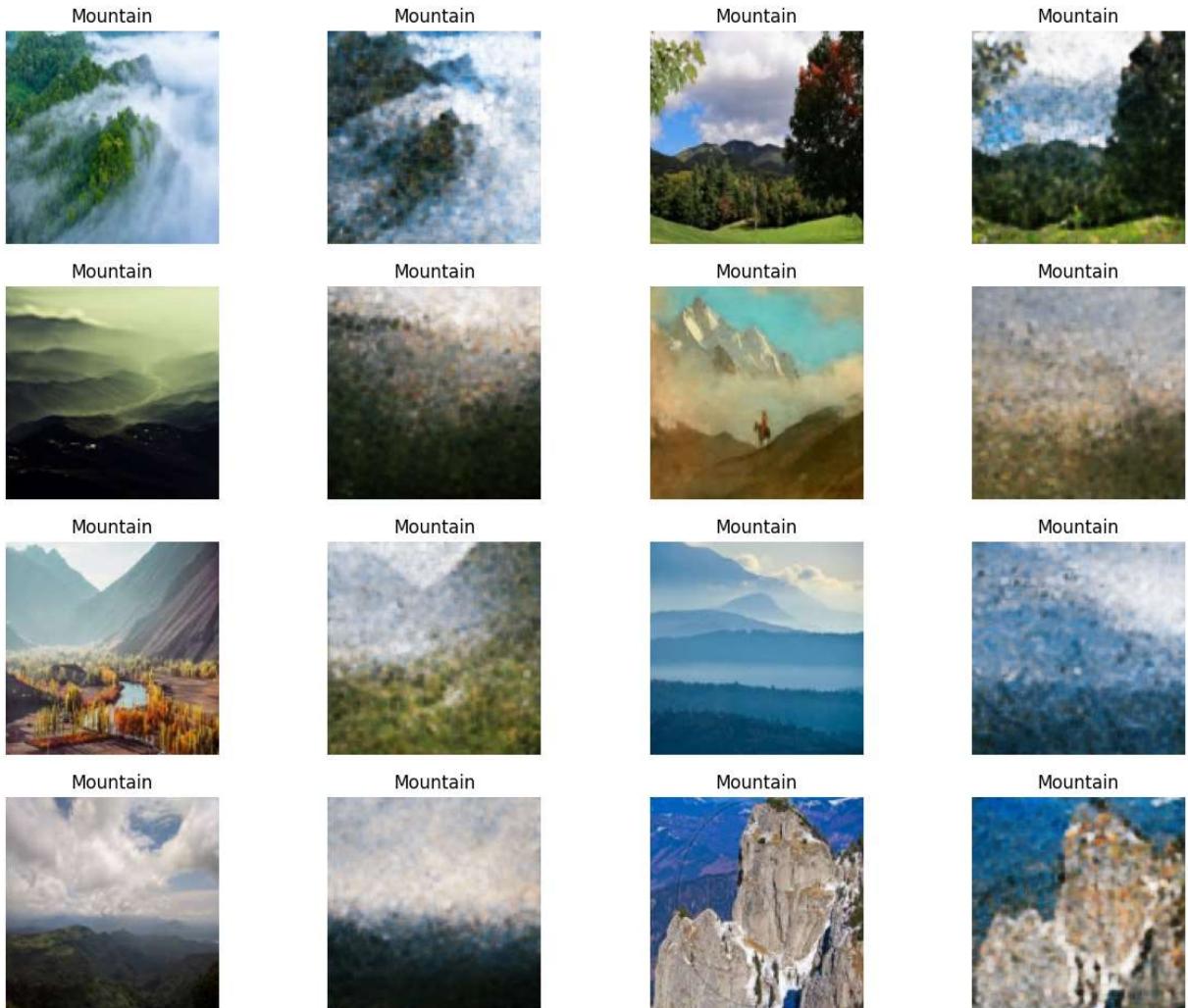
```
120/120 [=====] - 20s 163ms/step - loss: 36.8813 - reconstruction_error: 17.7890 - regularization_error: 19.0923 - val_loss: 70.4668 - val_reconstruction_error: 52.6215 - val_regularization_error: 17.8452
Epoch 702/1000
120/120 [=====] - 16s 129ms/step - loss: 37.0540 - reconstruction_error: 17.8372 - regularization_error: 19.2168 - val_loss: 70.2610 - val_reconstruction_error: 53.7427 - val_regularization_error: 16.5183
Epoch 703/1000
120/120 [=====] - 17s 138ms/step - loss: 37.0380 - reconstruction_error: 17.8961 - regularization_error: 19.1419 - val_loss: 71.2362 - val_reconstruction_error: 53.7257 - val_regularization_error: 17.5105
Epoch 704/1000
120/120 [=====] - 16s 133ms/step - loss: 37.1429 - reconstruction_error: 17.9915 - regularization_error: 19.1514 - val_loss: 70.7305 - val_reconstruction_error: 54.1627 - val_regularization_error: 16.5678
Epoch 705/1000
120/120 [=====] - 16s 132ms/step - loss: 36.9474 - reconstruction_error: 17.8316 - regularization_error: 19.1158 - val_loss: 71.1141 - val_reconstruction_error: 54.6904 - val_regularization_error: 16.4236
Epoch 706/1000
120/120 [=====] - 16s 131ms/step - loss: 37.0285 - reconstruction_error: 17.9706 - regularization_error: 19.0579 - val_loss: 70.9931 - val_reconstruction_error: 54.3681 - val_regularization_error: 16.6250
Epoch 707/1000
120/120 [=====] - 19s 156ms/step - loss: 37.0938 - reconstruction_error: 17.8869 - regularization_error: 19.2069 - val_loss: 71.5665 - val_reconstruction_error: 54.8123 - val_regularization_error: 16.7542
Epoch 708/1000
120/120 [=====] - 16s 134ms/step - loss: 37.0738 - reconstruction_error: 17.9235 - regularization_error: 19.1503 - val_loss: 71.9067 - val_reconstruction_error: 53.7368 - val_regularization_error: 18.1699
Epoch 709/1000
120/120 [=====] - 14s 113ms/step - loss: 37.0744 - reconstruction_error: 17.8369 - regularization_error: 19.2374 - val_loss: 70.1742 - val_reconstruction_error: 52.4587 - val_regularization_error: 17.7154
Epoch 710/1000
120/120 [=====] - 17s 138ms/step - loss: 36.9378 - reconstruction_error: 17.8328 - regularization_error: 19.1050 - val_loss: 71.2203 - val_reconstruction_error: 54.6126 - val_regularization_error: 16.6077
Epoch 711/1000
120/120 [=====] - ETA: 0s - loss: 36.9255 - reconstruction_error: 17.8039 - regularization_error: 19.1216
[2023-12-02 19:57:41.220658]: Reconstructing images for epoch 711 ...
```



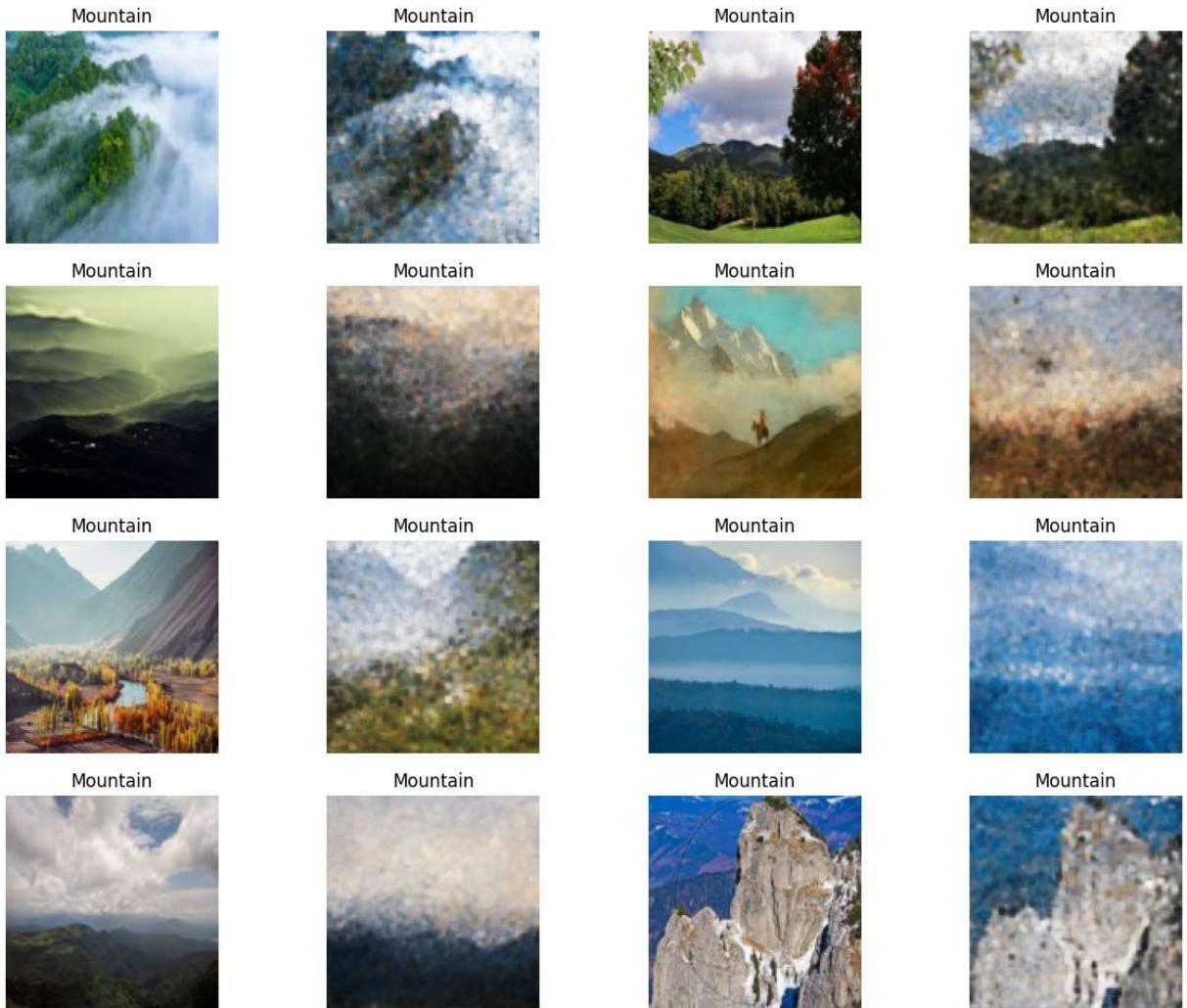
```
120/120 [=====] - 17s 145ms/step - loss: 36.9255 - reconstruction_error: 17.8039 - regularization_error: 19.1216 - val_loss: 70.4701 - val_reconstruction_error: 53.2538 - val_regularization_error: 17.2163
Epoch 712/1000
120/120 [=====] - 17s 141ms/step - loss: 37.0007 - reconstruction_error: 17.8376 - regularization_error: 19.1632 - val_loss: 69.4797 - val_reconstruction_error: 52.1674 - val_regularization_error: 17.3123
Epoch 713/1000
120/120 [=====] - 17s 144ms/step - loss: 37.1323 - reconstruction_error: 18.0346 - regularization_error: 19.0978 - val_loss: 71.4144 - val_reconstruction_error: 53.5936 - val_regularization_error: 17.8208
Epoch 714/1000
120/120 [=====] - 15s 125ms/step - loss: 36.8259 - reconstruction_error: 17.7266 - regularization_error: 19.0993 - val_loss: 72.0012 - val_reconstruction_error: 53.9224 - val_regularization_error: 18.0789
Epoch 715/1000
120/120 [=====] - 18s 147ms/step - loss: 36.6962 - reconstruction_error: 17.7076 - regularization_error: 18.9886 - val_loss: 70.9136 - val_reconstruction_error: 53.9119 - val_regularization_error: 17.0017
Epoch 716/1000
120/120 [=====] - 17s 137ms/step - loss: 36.8441 - reconstruction_error: 17.7751 - regularization_error: 19.0691 - val_loss: 70.6652 - val_reconstruction_error: 53.2201 - val_regularization_error: 17.4451
Epoch 717/1000
120/120 [=====] - 15s 119ms/step - loss: 36.9332 - reconstruction_error: 17.7788 - regularization_error: 19.1544 - val_loss: 71.5425 - val_reconstruction_error: 54.1588 - val_regularization_error: 17.3837
Epoch 718/1000
120/120 [=====] - 16s 133ms/step - loss: 36.9662 - reconstruction_error: 17.7599 - regularization_error: 19.2063 - val_loss: 70.6984 - val_reconstruction_error: 53.1782 - val_regularization_error: 17.5202
Epoch 719/1000
120/120 [=====] - 18s 153ms/step - loss: 37.0033 - reconstruction_error: 17.8827 - regularization_error: 19.1206 - val_loss: 71.0306 - val_reconstruction_error: 53.6199 - val_regularization_error: 17.4107
Epoch 720/1000
120/120 [=====] - 16s 131ms/step - loss: 36.7802 - reconstruction_error: 17.6915 - regularization_error: 19.0887 - val_loss: 71.4992 - val_reconstruction_error: 54.4510 - val_regularization_error: 17.0482
Epoch 721/1000
120/120 [=====] - ETA: 0s - loss: 36.8846 - reconstruction_error: 17.7846 - regularization_error: 19.1000
[2023-12-02 20:00:30.690331]: Reconstructing images for epoch 721 ...
```



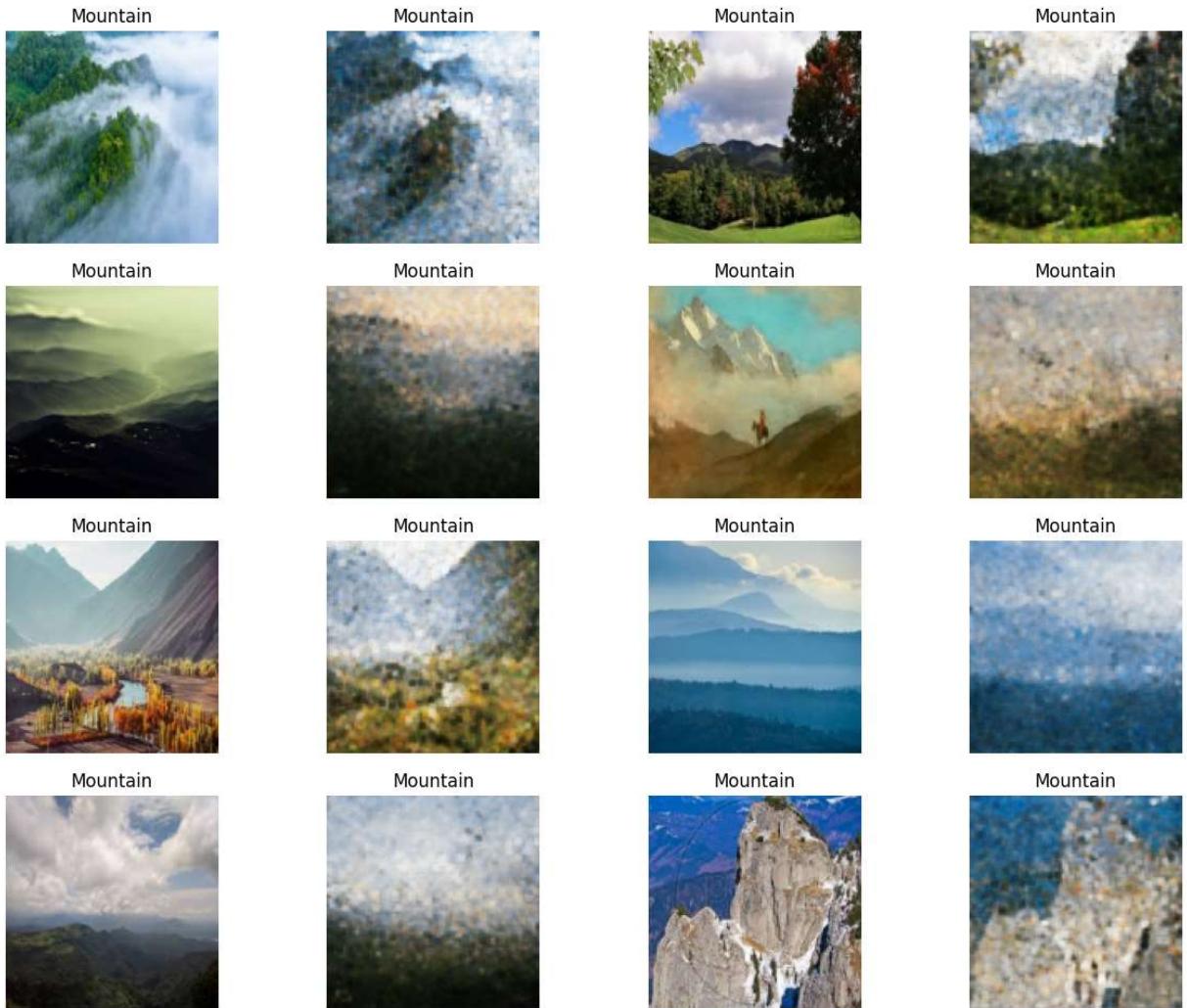
```
120/120 [=====] - 18s 147ms/step - loss: 36.8846 - reconstruction_error: 17.7846 - regularization_error: 19.1000 - val_loss: 70.9829 - val_reconstruction_error: 53.4523 - val_regularization_error: 17.5306
Epoch 722/1000
120/120 [=====] - 16s 137ms/step - loss: 36.7305 - reconstruction_error: 17.6222 - regularization_error: 19.1084 - val_loss: 71.7300 - val_reconstruction_error: 54.8239 - val_regularization_error: 16.9061
Epoch 723/1000
120/120 [=====] - 16s 136ms/step - loss: 36.8151 - reconstruction_error: 17.7580 - regularization_error: 19.0571 - val_loss: 71.5142 - val_reconstruction_error: 53.7224 - val_regularization_error: 17.7918
Epoch 724/1000
120/120 [=====] - 17s 138ms/step - loss: 36.9597 - reconstruction_error: 17.7728 - regularization_error: 19.1868 - val_loss: 70.3193 - val_reconstruction_error: 52.9640 - val_regularization_error: 17.3553
Epoch 725/1000
120/120 [=====] - 16s 129ms/step - loss: 36.7449 - reconstruction_error: 17.7152 - regularization_error: 19.0296 - val_loss: 70.5364 - val_reconstruction_error: 53.4688 - val_regularization_error: 17.0677
Epoch 726/1000
120/120 [=====] - 16s 135ms/step - loss: 36.6703 - reconstruction_error: 17.5049 - regularization_error: 19.1654 - val_loss: 70.6997 - val_reconstruction_error: 53.8129 - val_regularization_error: 16.8867
Epoch 727/1000
120/120 [=====] - 16s 122ms/step - loss: 36.7706 - reconstruction_error: 17.7439 - regularization_error: 19.0267 - val_loss: 70.2288 - val_reconstruction_error: 53.3281 - val_regularization_error: 16.9006
Epoch 728/1000
120/120 [=====] - 13s 109ms/step - loss: 36.9069 - reconstruction_error: 17.7004 - regularization_error: 19.2065 - val_loss: 70.6079 - val_reconstruction_error: 53.1065 - val_regularization_error: 17.5014
Epoch 729/1000
120/120 [=====] - 16s 132ms/step - loss: 36.8761 - reconstruction_error: 17.7868 - regularization_error: 19.0893 - val_loss: 71.6581 - val_reconstruction_error: 54.1264 - val_regularization_error: 17.5317
Epoch 730/1000
120/120 [=====] - 17s 143ms/step - loss: 36.9885 - reconstruction_error: 17.7728 - regularization_error: 19.2157 - val_loss: 72.0134 - val_reconstruction_error: 54.6171 - val_regularization_error: 17.3964
Epoch 731/1000
120/120 [=====] - ETA: 0s - loss: 36.6816 - reconstruction_error: 17.6310 - regularization_error: 19.0506
[2023-12-02 20:03:12.503524]: Reconstructing images for epoch 731 ...
```



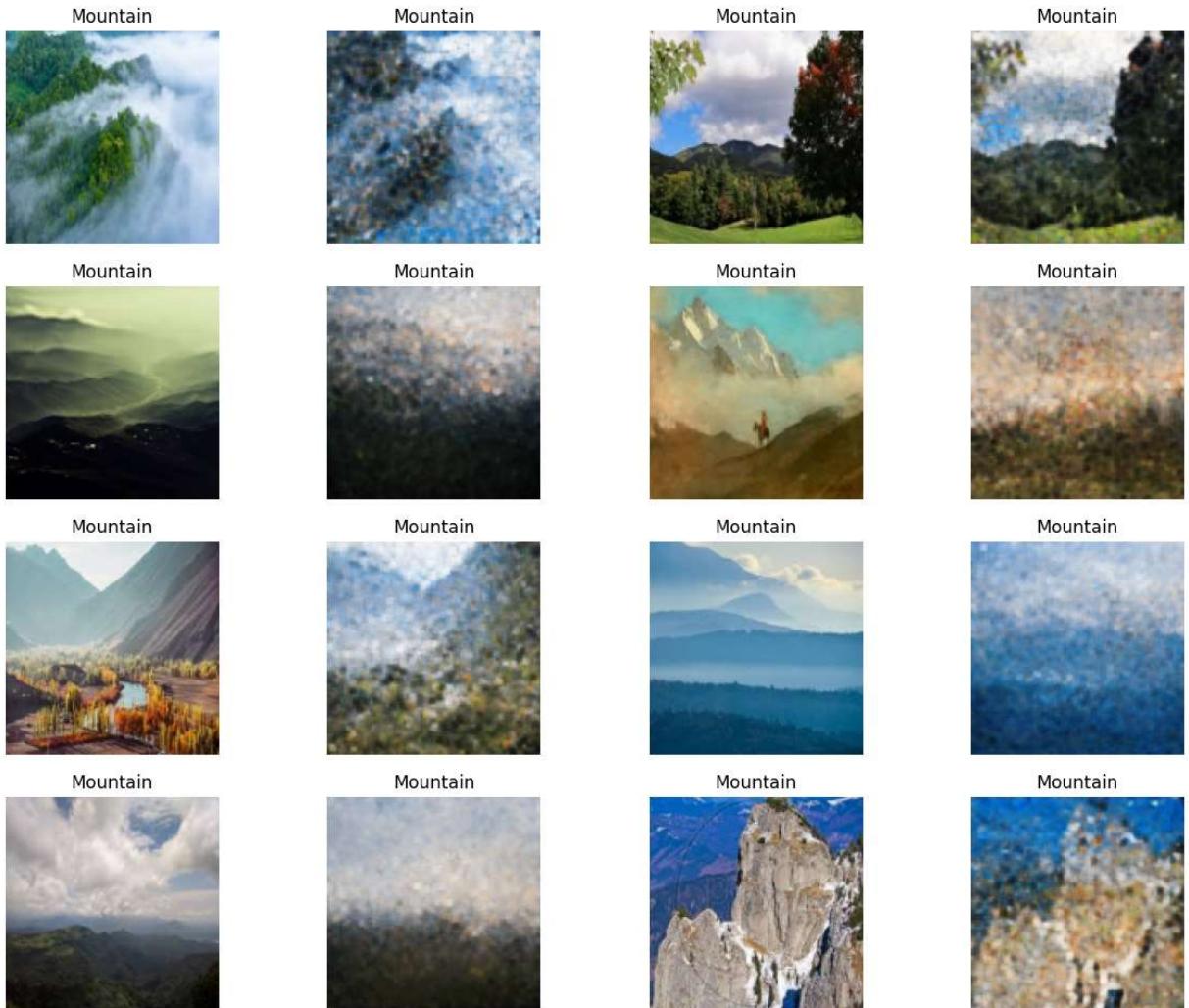
```
120/120 [=====] - 17s 140ms/step - loss: 36.6816 - reconstruction_error: 17.6310 - regularization_error: 19.0506 - val_loss: 71.2111 - val_reconstruction_error: 54.1026 - val_regularization_error: 17.1085
Epoch 732/1000
120/120 [=====] - 15s 125ms/step - loss: 37.0469 - reconstruction_error: 17.7849 - regularization_error: 19.2620 - val_loss: 71.3469 - val_reconstruction_error: 53.5099 - val_regularization_error: 17.8370
Epoch 733/1000
120/120 [=====] - 15s 122ms/step - loss: 37.0182 - reconstruction_error: 17.8094 - regularization_error: 19.2088 - val_loss: 72.0916 - val_reconstruction_error: 54.5331 - val_regularization_error: 17.5585
Epoch 734/1000
120/120 [=====] - 16s 134ms/step - loss: 36.7422 - reconstruction_error: 17.5170 - regularization_error: 19.2252 - val_loss: 70.8175 - val_reconstruction_error: 53.6133 - val_regularization_error: 17.2042
Epoch 735/1000
120/120 [=====] - 15s 119ms/step - loss: 36.7446 - reconstruction_error: 17.7191 - regularization_error: 19.0255 - val_loss: 70.3855 - val_reconstruction_error: 53.2616 - val_regularization_error: 17.1238
Epoch 736/1000
120/120 [=====] - 17s 143ms/step - loss: 36.8052 - reconstruction_error: 17.6746 - regularization_error: 19.1306 - val_loss: 70.2884 - val_reconstruction_error: 53.5644 - val_regularization_error: 16.7240
Epoch 737/1000
120/120 [=====] - 17s 137ms/step - loss: 36.6422 - reconstruction_error: 17.5327 - regularization_error: 19.1094 - val_loss: 70.1038 - val_reconstruction_error: 52.9269 - val_regularization_error: 17.1769
Epoch 738/1000
120/120 [=====] - 17s 142ms/step - loss: 36.7865 - reconstruction_error: 17.6601 - regularization_error: 19.1265 - val_loss: 72.2383 - val_reconstruction_error: 54.5192 - val_regularization_error: 17.7191
Epoch 739/1000
120/120 [=====] - 19s 154ms/step - loss: 36.8510 - reconstruction_error: 17.8036 - regularization_error: 19.0474 - val_loss: 72.2898 - val_reconstruction_error: 54.8024 - val_regularization_error: 17.4874
Epoch 740/1000
120/120 [=====] - 13s 110ms/step - loss: 36.7957 - reconstruction_error: 17.6321 - regularization_error: 19.1636 - val_loss: 70.2184 - val_reconstruction_error: 53.2633 - val_regularization_error: 16.9551
Epoch 741/1000
120/120 [=====] - ETA: 0s - loss: 36.6763 - reconstruction_error: 17.6505 - regularization_error: 19.0258
[2023-12-02 20:05:58.459323]: Reconstructing images for epoch 741 ...
```



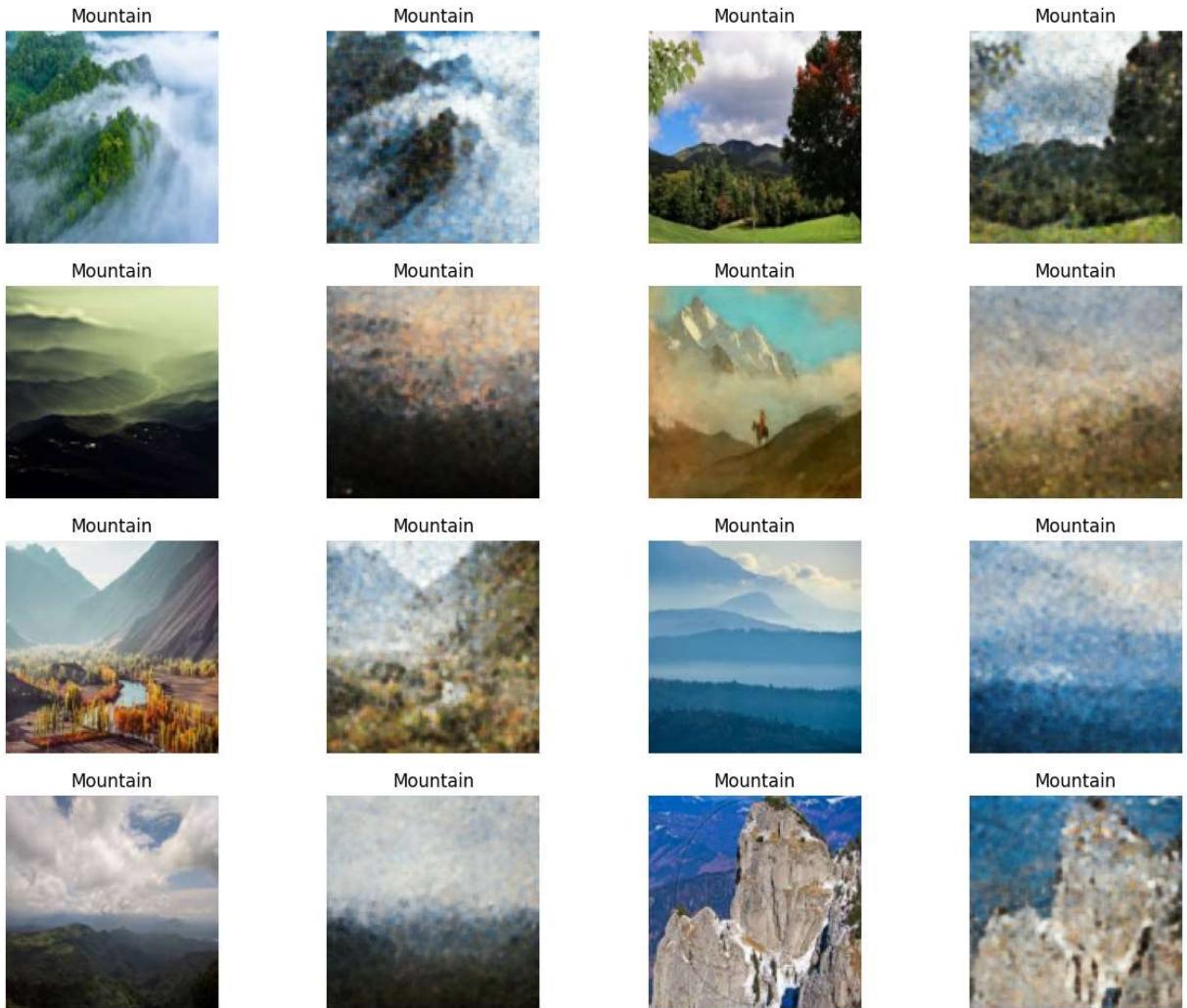
```
120/120 [=====] - 20s 164ms/step - loss: 36.6763 - reconstruction_error: 17.6505 - regularization_error: 19.0258 - val_loss: 71.3923 - val_reconstruction_error: 53.7237 - val_regularization_error: 17.6686
Epoch 742/1000
120/120 [=====] - 15s 125ms/step - loss: 36.7369 - reconstruction_error: 17.6898 - regularization_error: 19.0471 - val_loss: 71.2024 - val_reconstruction_error: 53.1495 - val_regularization_error: 18.0528
Epoch 743/1000
120/120 [=====] - 14s 113ms/step - loss: 36.7143 - reconstruction_error: 17.6287 - regularization_error: 19.0856 - val_loss: 71.1093 - val_reconstruction_error: 53.4785 - val_regularization_error: 17.6308
Epoch 744/1000
120/120 [=====] - 16s 133ms/step - loss: 36.8351 - reconstruction_error: 17.6894 - regularization_error: 19.1457 - val_loss: 70.9664 - val_reconstruction_error: 53.4039 - val_regularization_error: 17.5625
Epoch 745/1000
120/120 [=====] - 16s 133ms/step - loss: 36.8552 - reconstruction_error: 17.6919 - regularization_error: 19.1633 - val_loss: 71.3371 - val_reconstruction_error: 53.7037 - val_regularization_error: 17.6334
Epoch 746/1000
120/120 [=====] - 13s 107ms/step - loss: 36.6893 - reconstruction_error: 17.6139 - regularization_error: 19.0754 - val_loss: 71.0190 - val_reconstruction_error: 53.8893 - val_regularization_error: 17.1297
Epoch 747/1000
120/120 [=====] - 15s 122ms/step - loss: 36.6694 - reconstruction_error: 17.5856 - regularization_error: 19.0837 - val_loss: 71.0860 - val_reconstruction_error: 53.4575 - val_regularization_error: 17.6284
Epoch 748/1000
120/120 [=====] - 17s 143ms/step - loss: 36.7816 - reconstruction_error: 17.6702 - regularization_error: 19.1114 - val_loss: 70.8861 - val_reconstruction_error: 53.6609 - val_regularization_error: 17.2252
Epoch 749/1000
120/120 [=====] - 14s 117ms/step - loss: 36.7432 - reconstruction_error: 17.6832 - regularization_error: 19.0600 - val_loss: 71.0767 - val_reconstruction_error: 53.6616 - val_regularization_error: 17.4151
Epoch 750/1000
120/120 [=====] - 17s 144ms/step - loss: 36.8965 - reconstruction_error: 17.7356 - regularization_error: 19.1609 - val_loss: 71.2063 - val_reconstruction_error: 53.2776 - val_regularization_error: 17.9287
Epoch 751/1000
120/120 [=====] - ETA: 0s - loss: 36.7087 - reconstruction_error: 17.5550 - regularization_error: 19.1536
[2023-12-02 20:08:33.712183]: Reconstructing images for epoch 751 ...
```



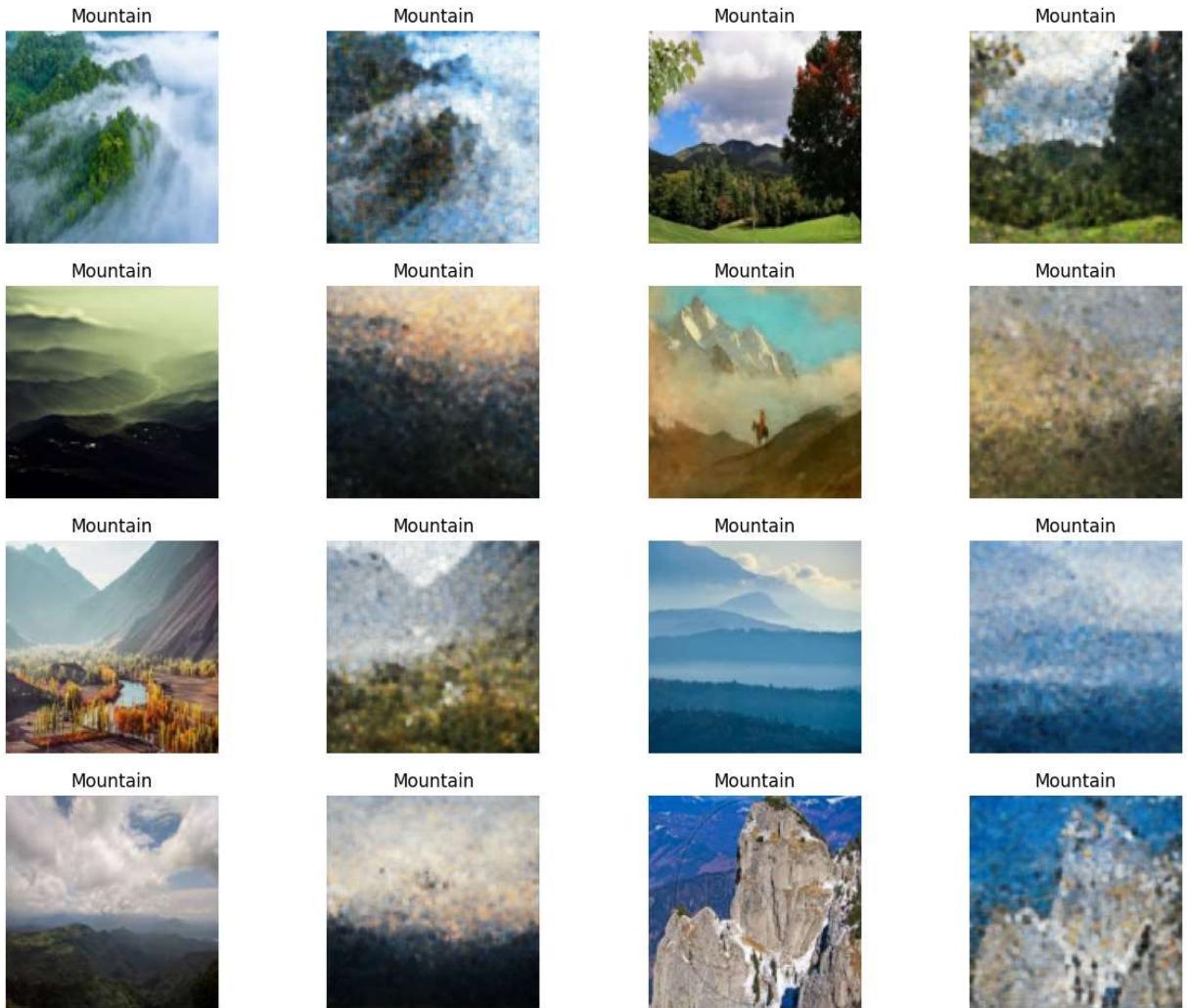
```
120/120 [=====] - 17s 139ms/step - loss: 36.7087 - reconstruction_error: 17.5550 - regularization_error: 19.1536 - val_loss: 71.2068 - val_reconstruction_error: 53.6926 - val_regularization_error: 17.5142
Epoch 752/1000
120/120 [=====] - 16s 131ms/step - loss: 36.7756 - reconstruction_error: 17.6258 - regularization_error: 19.1499 - val_loss: 71.4059 - val_reconstruction_error: 54.9328 - val_regularization_error: 16.4730
Epoch 753/1000
120/120 [=====] - 14s 113ms/step - loss: 36.7391 - reconstruction_error: 17.5770 - regularization_error: 19.1621 - val_loss: 71.7502 - val_reconstruction_error: 53.9340 - val_regularization_error: 17.8162
Epoch 754/1000
120/120 [=====] - 16s 137ms/step - loss: 36.5705 - reconstruction_error: 17.4591 - regularization_error: 19.1114 - val_loss: 70.3771 - val_reconstruction_error: 52.8108 - val_regularization_error: 17.5664
Epoch 755/1000
120/120 [=====] - 14s 120ms/step - loss: 36.7499 - reconstruction_error: 17.4807 - regularization_error: 19.2692 - val_loss: 69.9726 - val_reconstruction_error: 53.5729 - val_regularization_error: 16.3997
Epoch 756/1000
120/120 [=====] - 18s 147ms/step - loss: 36.5355 - reconstruction_error: 17.5014 - regularization_error: 19.0342 - val_loss: 70.9359 - val_reconstruction_error: 53.7560 - val_regularization_error: 17.1799
Epoch 757/1000
120/120 [=====] - 16s 131ms/step - loss: 36.4557 - reconstruction_error: 17.4409 - regularization_error: 19.0149 - val_loss: 71.6911 - val_reconstruction_error: 55.0775 - val_regularization_error: 16.6136
Epoch 758/1000
120/120 [=====] - 15s 126ms/step - loss: 36.7170 - reconstruction_error: 17.6191 - regularization_error: 19.0979 - val_loss: 70.3847 - val_reconstruction_error: 53.8066 - val_regularization_error: 16.5781
Epoch 759/1000
120/120 [=====] - 15s 121ms/step - loss: 36.5626 - reconstruction_error: 17.5313 - regularization_error: 19.0313 - val_loss: 71.4293 - val_reconstruction_error: 53.3392 - val_regularization_error: 18.0901
Epoch 760/1000
120/120 [=====] - 16s 136ms/step - loss: 36.5700 - reconstruction_error: 17.4592 - regularization_error: 19.1108 - val_loss: 70.8359 - val_reconstruction_error: 54.3928 - val_regularization_error: 16.4431
Epoch 761/1000
120/120 [=====] - ETA: 0s - loss: 36.7524 - reconstruction_error: 17.6074 - regularization_error: 19.1450
[2023-12-02 20:11:17.717755]: Reconstructing images for epoch 761 ...
```



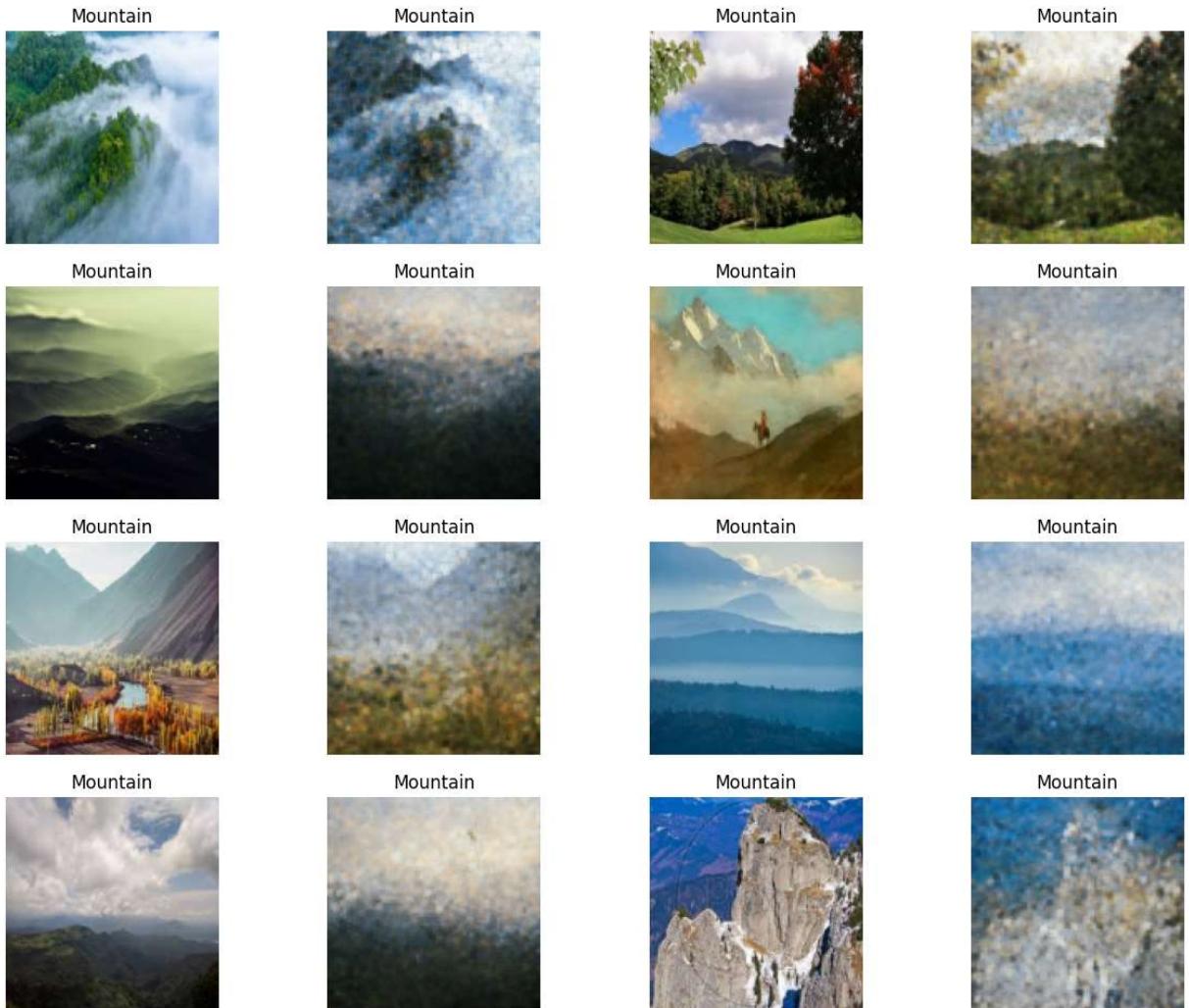
```
120/120 [=====] - 22s 181ms/step - loss: 36.7524 - reconstruction_error: 17.6074 - regularization_error: 19.1450 - val_loss: 71.6805 - val_reconstruction_error: 54.4386 - val_regularization_error: 17.2419
Epoch 762/1000
120/120 [=====] - 16s 133ms/step - loss: 36.6715 - reconstruction_error: 17.4491 - regularization_error: 19.2224 - val_loss: 71.2126 - val_reconstruction_error: 54.1587 - val_regularization_error: 17.0538
Epoch 763/1000
120/120 [=====] - 18s 144ms/step - loss: 36.7288 - reconstruction_error: 17.5375 - regularization_error: 19.1913 - val_loss: 70.9477 - val_reconstruction_error: 54.1567 - val_regularization_error: 16.7910
Epoch 764/1000
120/120 [=====] - 16s 130ms/step - loss: 36.6375 - reconstruction_error: 17.4372 - regularization_error: 19.2003 - val_loss: 71.0867 - val_reconstruction_error: 53.5140 - val_regularization_error: 17.5727
Epoch 765/1000
120/120 [=====] - 17s 141ms/step - loss: 36.6062 - reconstruction_error: 17.4962 - regularization_error: 19.1100 - val_loss: 70.1448 - val_reconstruction_error: 53.3406 - val_regularization_error: 16.8042
Epoch 766/1000
120/120 [=====] - 18s 146ms/step - loss: 36.6928 - reconstruction_error: 17.5991 - regularization_error: 19.0937 - val_loss: 71.5757 - val_reconstruction_error: 54.1023 - val_regularization_error: 17.4735
Epoch 767/1000
120/120 [=====] - 17s 139ms/step - loss: 36.4738 - reconstruction_error: 17.4369 - regularization_error: 19.0369 - val_loss: 70.5097 - val_reconstruction_error: 54.5203 - val_regularization_error: 15.9893
Epoch 768/1000
120/120 [=====] - 18s 146ms/step - loss: 36.5938 - reconstruction_error: 17.4785 - regularization_error: 19.1153 - val_loss: 70.0192 - val_reconstruction_error: 53.8131 - val_regularization_error: 16.2061
Epoch 769/1000
120/120 [=====] - 17s 140ms/step - loss: 36.6241 - reconstruction_error: 17.6232 - regularization_error: 19.0010 - val_loss: 72.0823 - val_reconstruction_error: 55.3019 - val_regularization_error: 16.7804
Epoch 770/1000
120/120 [=====] - 16s 137ms/step - loss: 36.5445 - reconstruction_error: 17.4156 - regularization_error: 19.1289 - val_loss: 70.9430 - val_reconstruction_error: 54.2860 - val_regularization_error: 16.6570
Epoch 771/1000
120/120 [=====] - ETA: 0s - loss: 36.4465 - reconstruction_error: 17.4115 - regularization_error: 19.0350
[2023-12-02 20:14:10.834120]: Reconstructing images for epoch 771 ...
```



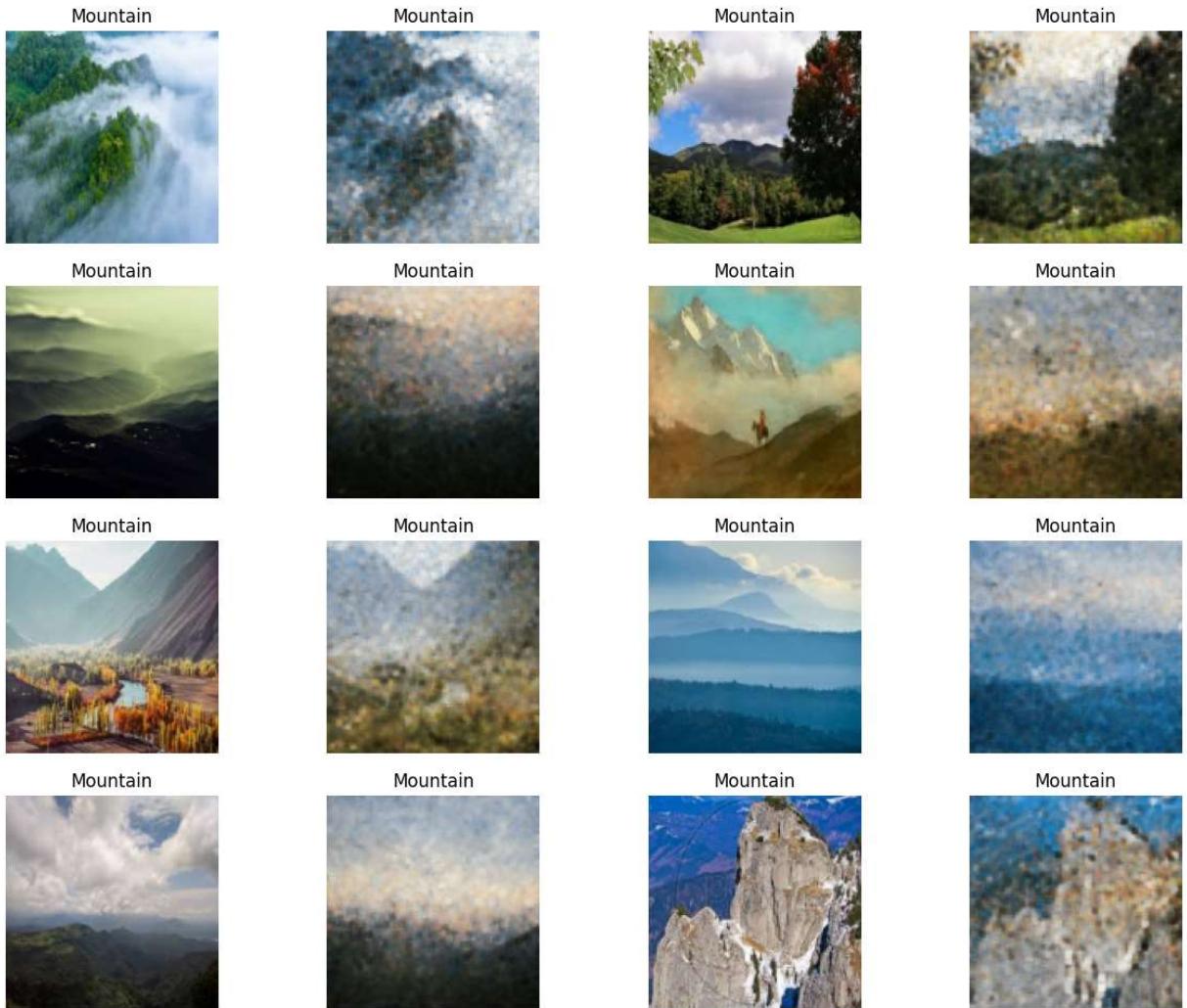
```
120/120 [=====] - 18s 146ms/step - loss: 36.4465 - reconstruction_error: 17.4115 - regularization_error: 19.0350 - val_loss: 71.4299 - val_reconstruction_error: 54.6665 - val_regularization_error: 16.7634
Epoch 772/1000
120/120 [=====] - 16s 137ms/step - loss: 36.4421 - reconstruction_error: 17.4041 - regularization_error: 19.0379 - val_loss: 70.6572 - val_reconstruction_error: 53.9488 - val_regularization_error: 16.7084
Epoch 773/1000
120/120 [=====] - 14s 115ms/step - loss: 36.5604 - reconstruction_error: 17.4877 - regularization_error: 19.0727 - val_loss: 70.8357 - val_reconstruction_error: 54.0784 - val_regularization_error: 16.7573
Epoch 774/1000
120/120 [=====] - 15s 127ms/step - loss: 36.3250 - reconstruction_error: 17.4543 - regularization_error: 18.8707 - val_loss: 71.6648 - val_reconstruction_error: 54.0822 - val_regularization_error: 17.5826
Epoch 775/1000
120/120 [=====] - 18s 151ms/step - loss: 36.3647 - reconstruction_error: 17.3933 - regularization_error: 18.9714 - val_loss: 70.0075 - val_reconstruction_error: 53.3556 - val_regularization_error: 16.6518
Epoch 776/1000
120/120 [=====] - 16s 132ms/step - loss: 36.5257 - reconstruction_error: 17.5411 - regularization_error: 18.9846 - val_loss: 70.6540 - val_reconstruction_error: 54.4923 - val_regularization_error: 16.1617
Epoch 777/1000
120/120 [=====] - 19s 155ms/step - loss: 36.4627 - reconstruction_error: 17.4944 - regularization_error: 18.9683 - val_loss: 70.4140 - val_reconstruction_error: 53.6665 - val_regularization_error: 16.7475
Epoch 778/1000
120/120 [=====] - 16s 127ms/step - loss: 36.3780 - reconstruction_error: 17.3685 - regularization_error: 19.0096 - val_loss: 70.2892 - val_reconstruction_error: 53.5951 - val_regularization_error: 16.6942
Epoch 779/1000
120/120 [=====] - 17s 145ms/step - loss: 36.6014 - reconstruction_error: 17.4084 - regularization_error: 19.1929 - val_loss: 71.7947 - val_reconstruction_error: 54.8102 - val_regularization_error: 16.9845
Epoch 780/1000
120/120 [=====] - 16s 130ms/step - loss: 36.4747 - reconstruction_error: 17.3885 - regularization_error: 19.0862 - val_loss: 70.8729 - val_reconstruction_error: 54.0469 - val_regularization_error: 16.8260
Epoch 781/1000
120/120 [=====] - ETA: 0s - loss: 36.6498 - reconstruction_error: 17.5340 - regularization_error: 19.1158
[2023-12-02 20:16:58.578611]: Reconstructing images for epoch 781 ...
```



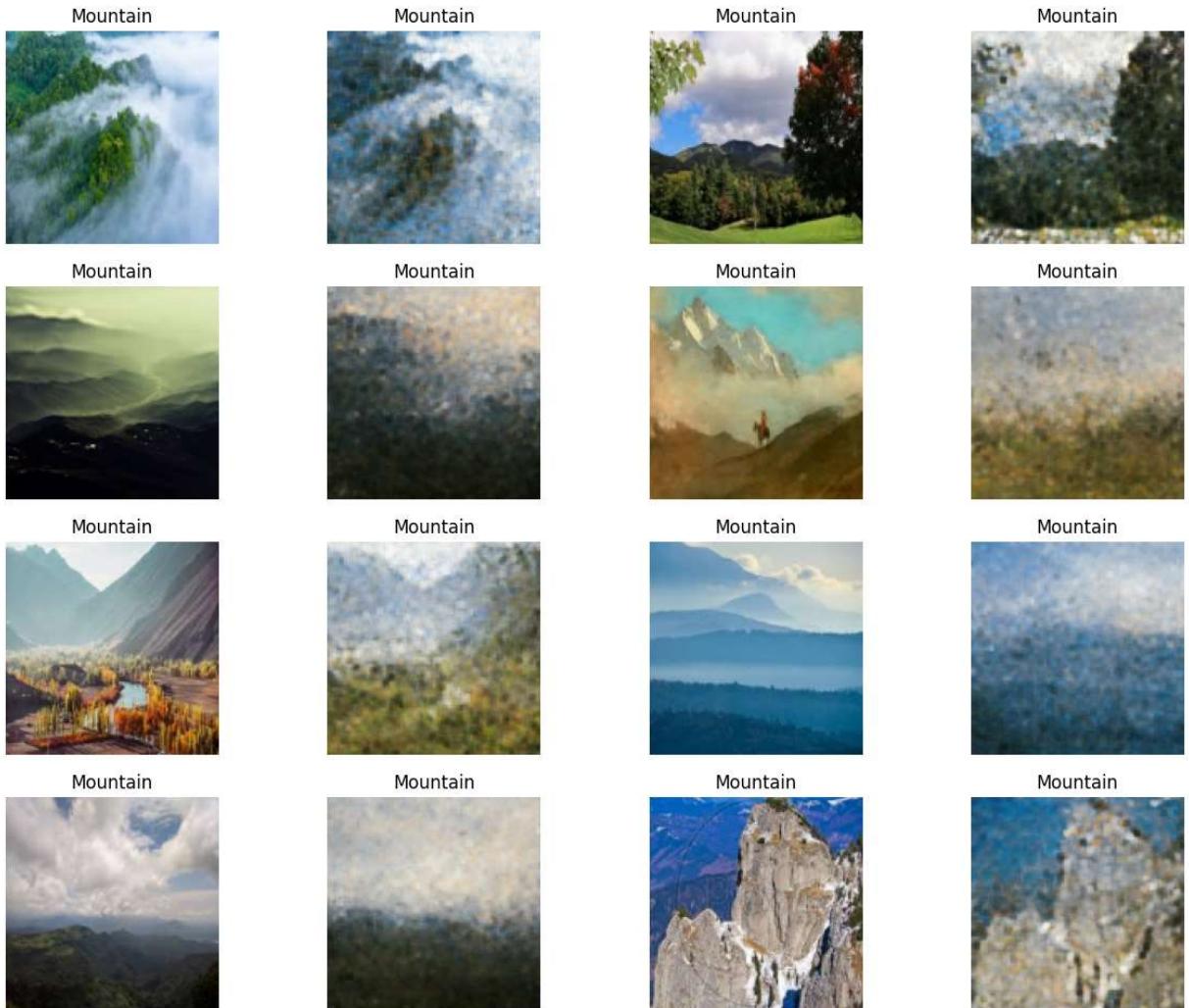
```
120/120 [=====] - 20s 162ms/step - loss: 36.6498 - reconstruction_error: 17.5340 - regularization_error: 19.1158 - val_loss: 71.1051 - val_reconstruction_error: 53.4439 - val_regularization_error: 17.6611
Epoch 782/1000
120/120 [=====] - 15s 122ms/step - loss: 36.6048 - reconstruction_error: 17.4221 - regularization_error: 19.1827 - val_loss: 70.2531 - val_reconstruction_error: 53.4860 - val_regularization_error: 16.7671
Epoch 783/1000
120/120 [=====] - 12s 97ms/step - loss: 36.5754 - reconstruction_error: 17.5052 - regularization_error: 19.0702 - val_loss: 70.3332 - val_reconstruction_error: 53.4787 - val_regularization_error: 16.8545
Epoch 784/1000
120/120 [=====] - 17s 141ms/step - loss: 36.7384 - reconstruction_error: 17.5290 - regularization_error: 19.2093 - val_loss: 71.7891 - val_reconstruction_error: 54.3414 - val_regularization_error: 17.4477
Epoch 785/1000
120/120 [=====] - 13s 111ms/step - loss: 36.4904 - reconstruction_error: 17.4191 - regularization_error: 19.0713 - val_loss: 70.8109 - val_reconstruction_error: 53.8681 - val_regularization_error: 16.9428
Epoch 786/1000
120/120 [=====] - 16s 133ms/step - loss: 36.4512 - reconstruction_error: 17.2976 - regularization_error: 19.1536 - val_loss: 71.0515 - val_reconstruction_error: 54.9670 - val_regularization_error: 16.0845
Epoch 787/1000
120/120 [=====] - 16s 131ms/step - loss: 36.5318 - reconstruction_error: 17.4151 - regularization_error: 19.1167 - val_loss: 70.4506 - val_reconstruction_error: 53.8839 - val_regularization_error: 16.5666
Epoch 788/1000
120/120 [=====] - 15s 122ms/step - loss: 36.4907 - reconstruction_error: 17.4002 - regularization_error: 19.0905 - val_loss: 70.4180 - val_reconstruction_error: 53.1767 - val_regularization_error: 17.2413
Epoch 789/1000
120/120 [=====] - 16s 130ms/step - loss: 36.5690 - reconstruction_error: 17.4861 - regularization_error: 19.0828 - val_loss: 70.8073 - val_reconstruction_error: 53.5707 - val_regularization_error: 17.2365
Epoch 790/1000
120/120 [=====] - 13s 108ms/step - loss: 36.3548 - reconstruction_error: 17.3105 - regularization_error: 19.0442 - val_loss: 70.7116 - val_reconstruction_error: 53.5126 - val_regularization_error: 17.1990
Epoch 791/1000
120/120 [=====] - ETA: 0s - loss: 36.4831 - reconstruction_error: 17.4362 - regularization_error: 19.0469
[2023-12-02 20:19:33.010665]: Reconstructing images for epoch 791 ...
```



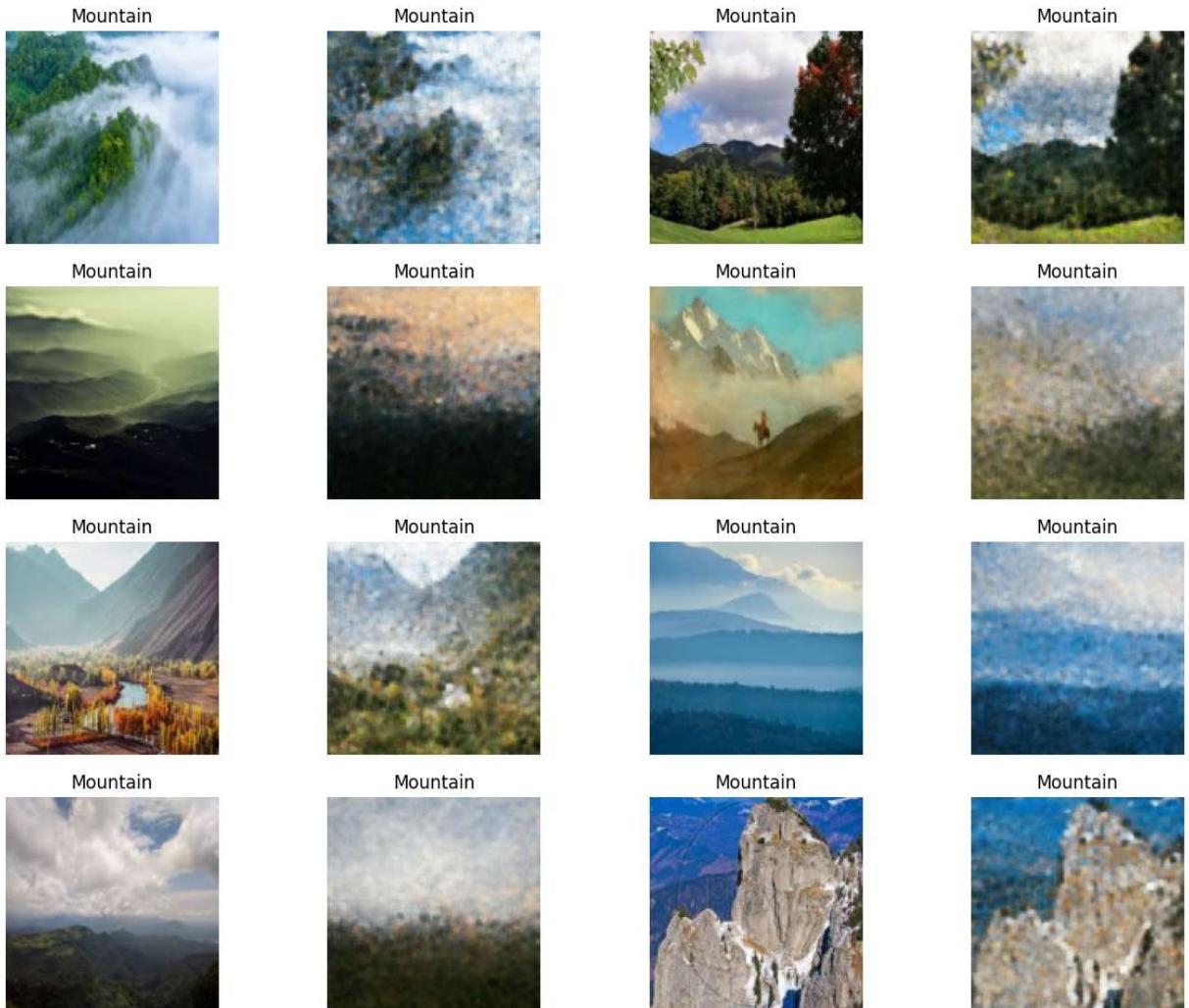
```
120/120 [=====] - 18s 151ms/step - loss: 36.4831 - reconstruction_error: 17.4362 - regularization_error: 19.0469 - val_loss: 70.0085 - val_reconstruction_error: 53.7545 - val_regularization_error: 16.2540
Epoch 792/1000
120/120 [=====] - 19s 156ms/step - loss: 36.4351 - reconstruction_error: 17.3698 - regularization_error: 19.0653 - val_loss: 71.1912 - val_reconstruction_error: 53.5057 - val_regularization_error: 17.6855
Epoch 793/1000
120/120 [=====] - 17s 138ms/step - loss: 36.5812 - reconstruction_error: 17.4916 - regularization_error: 19.0897 - val_loss: 72.5477 - val_reconstruction_error: 55.2766 - val_regularization_error: 17.2711
Epoch 794/1000
120/120 [=====] - 18s 144ms/step - loss: 36.5505 - reconstruction_error: 17.3626 - regularization_error: 19.1879 - val_loss: 70.3581 - val_reconstruction_error: 53.6053 - val_regularization_error: 16.7529
Epoch 795/1000
120/120 [=====] - 17s 138ms/step - loss: 36.6027 - reconstruction_error: 17.3374 - regularization_error: 19.2653 - val_loss: 70.1799 - val_reconstruction_error: 53.0029 - val_regularization_error: 17.1771
Epoch 796/1000
120/120 [=====] - 16s 128ms/step - loss: 36.4531 - reconstruction_error: 17.3621 - regularization_error: 19.0910 - val_loss: 70.9739 - val_reconstruction_error: 53.9051 - val_regularization_error: 17.0688
Epoch 797/1000
120/120 [=====] - 16s 134ms/step - loss: 36.3206 - reconstruction_error: 17.2440 - regularization_error: 19.0767 - val_loss: 70.5421 - val_reconstruction_error: 53.4906 - val_regularization_error: 17.0516
Epoch 798/1000
120/120 [=====] - 14s 117ms/step - loss: 36.5584 - reconstruction_error: 17.4143 - regularization_error: 19.1440 - val_loss: 70.6543 - val_reconstruction_error: 53.2150 - val_regularization_error: 17.4393
Epoch 799/1000
120/120 [=====] - 16s 129ms/step - loss: 36.1759 - reconstruction_error: 17.1828 - regularization_error: 18.9931 - val_loss: 70.7320 - val_reconstruction_error: 53.1664 - val_regularization_error: 17.5656
Epoch 800/1000
120/120 [=====] - 17s 138ms/step - loss: 36.4388 - reconstruction_error: 17.3130 - regularization_error: 19.1258 - val_loss: 70.0587 - val_reconstruction_error: 52.5239 - val_regularization_error: 17.5349
Epoch 801/1000
120/120 [=====] - ETA: 0s - loss: 36.3912 - reconstruction_error: 17.2973 - regularization_error: 19.0939
[2023-12-02 20:22:18.290475]: Reconstructing images for epoch 801 ...
```



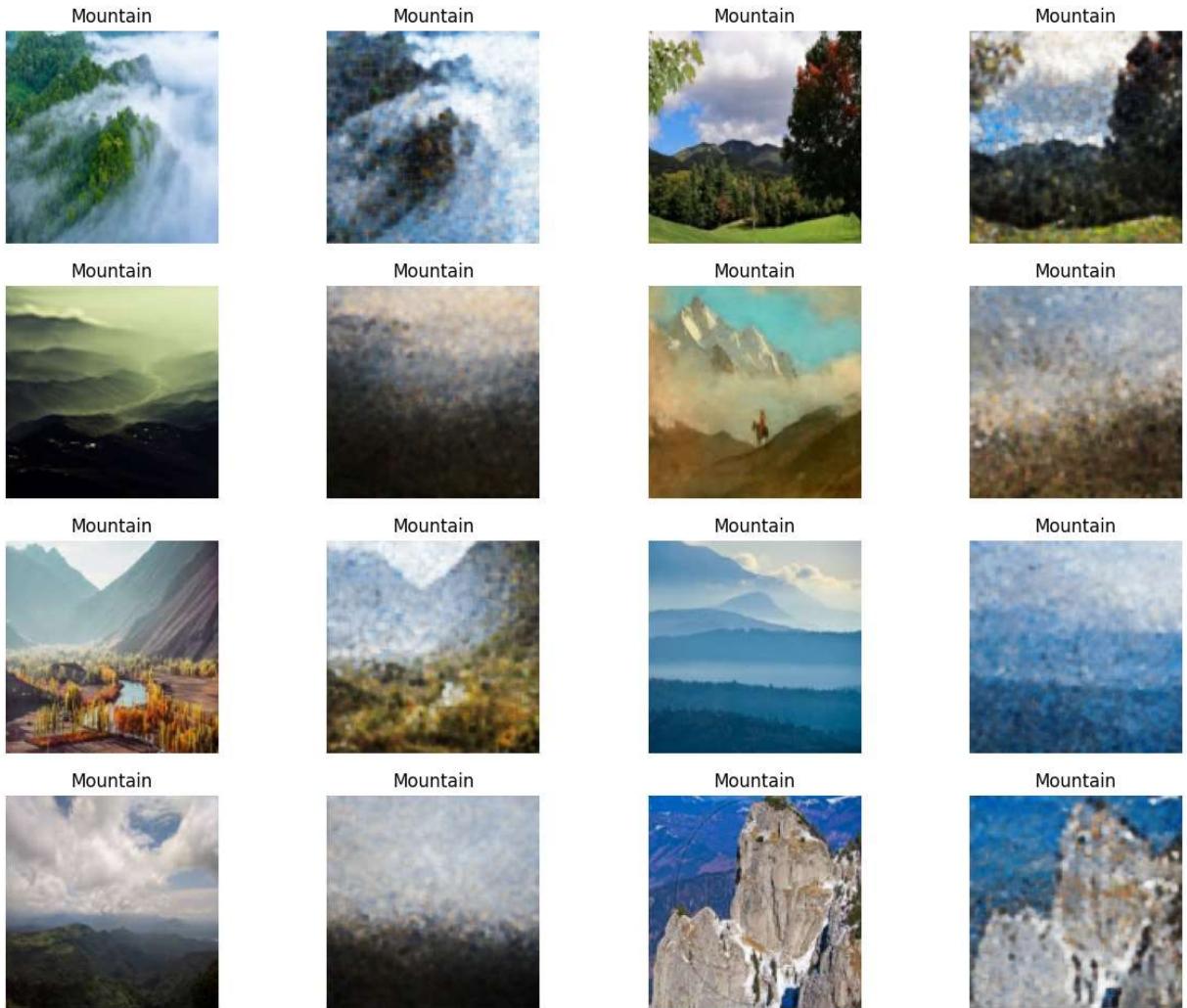
```
120/120 [=====] - 16s 136ms/step - loss: 36.3912 - reconstruction_error: 17.2973 - regularization_error: 19.0939 - val_loss: 69.8785 - val_reconstruction_error: 53.5473 - val_regularization_error: 16.3312
Epoch 802/1000
120/120 [=====] - 14s 121ms/step - loss: 36.4802 - reconstruction_error: 17.3820 - regularization_error: 19.0982 - val_loss: 70.1869 - val_reconstruction_error: 53.5854 - val_regularization_error: 16.6016
Epoch 803/1000
120/120 [=====] - 16s 133ms/step - loss: 36.5623 - reconstruction_error: 17.4450 - regularization_error: 19.1173 - val_loss: 71.1314 - val_reconstruction_error: 53.7746 - val_regularization_error: 17.3568
Epoch 804/1000
120/120 [=====] - 16s 131ms/step - loss: 36.3994 - reconstruction_error: 17.3039 - regularization_error: 19.0956 - val_loss: 70.0899 - val_reconstruction_error: 53.0278 - val_regularization_error: 17.0621
Epoch 805/1000
120/120 [=====] - 16s 133ms/step - loss: 36.4616 - reconstruction_error: 17.3347 - regularization_error: 19.1269 - val_loss: 70.9834 - val_reconstruction_error: 54.0764 - val_regularization_error: 16.9070
Epoch 806/1000
120/120 [=====] - 17s 140ms/step - loss: 36.5281 - reconstruction_error: 17.3811 - regularization_error: 19.1470 - val_loss: 70.6636 - val_reconstruction_error: 53.8153 - val_regularization_error: 16.8484
Epoch 807/1000
120/120 [=====] - 18s 146ms/step - loss: 36.4525 - reconstruction_error: 17.3155 - regularization_error: 19.1369 - val_loss: 71.0027 - val_reconstruction_error: 53.5003 - val_regularization_error: 17.5024
Epoch 808/1000
120/120 [=====] - 14s 119ms/step - loss: 36.2552 - reconstruction_error: 17.2108 - regularization_error: 19.0444 - val_loss: 71.6345 - val_reconstruction_error: 54.9558 - val_regularization_error: 16.6787
Epoch 809/1000
120/120 [=====] - 15s 125ms/step - loss: 36.3100 - reconstruction_error: 17.2705 - regularization_error: 19.0395 - val_loss: 71.6481 - val_reconstruction_error: 54.6556 - val_regularization_error: 16.9924
Epoch 810/1000
120/120 [=====] - 16s 135ms/step - loss: 36.2948 - reconstruction_error: 17.3021 - regularization_error: 18.9926 - val_loss: 70.2043 - val_reconstruction_error: 53.9228 - val_regularization_error: 16.2815
Epoch 811/1000
120/120 [=====] - ETA: 0s - loss: 36.4234 - reconstruction_error: 17.2267 - regularization_error: 19.1967
[2023-12-02 20:25:01.790649]: Reconstructing images for epoch 811 ...
```



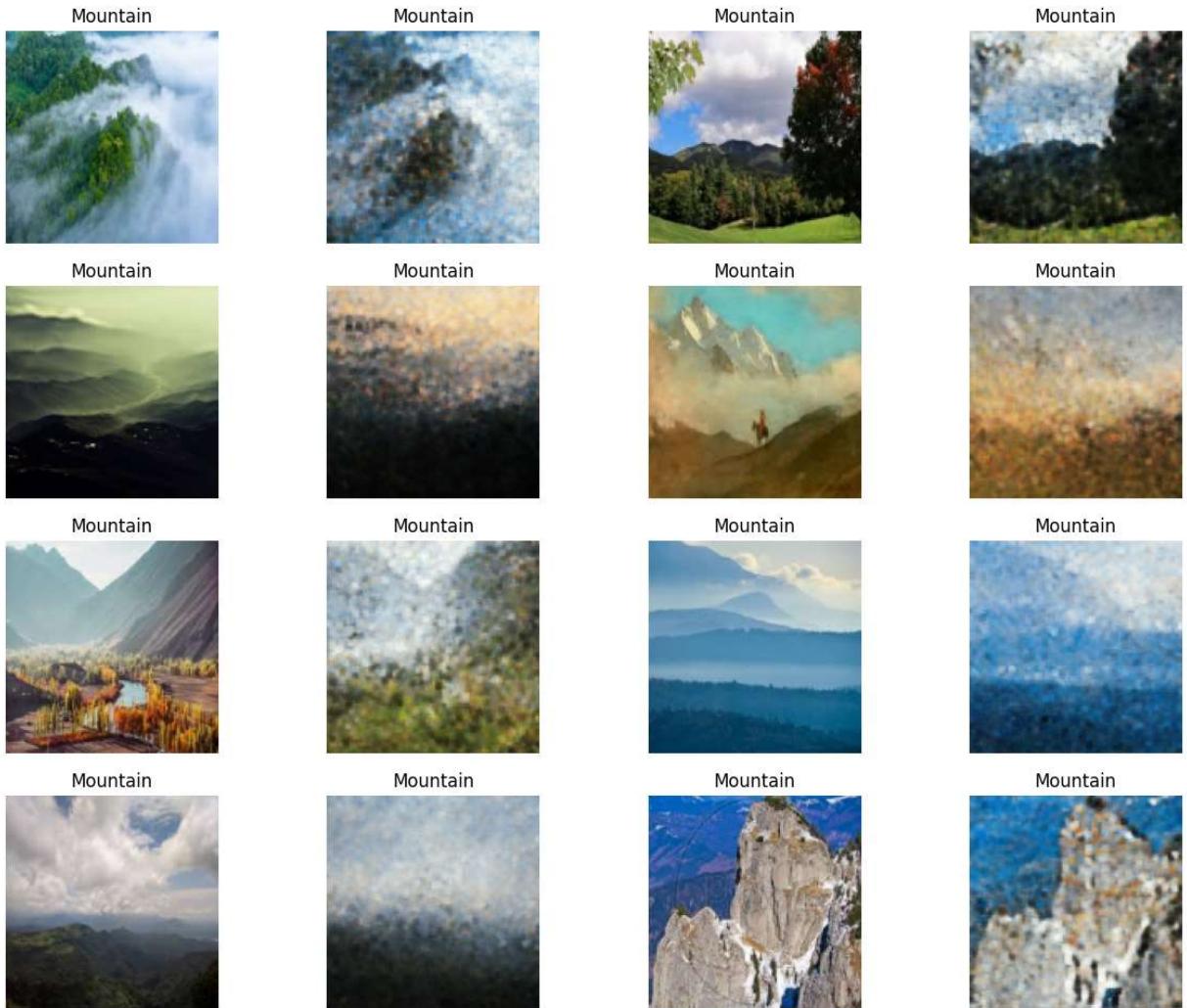
```
120/120 [=====] - 18s 148ms/step - loss: 36.4234 - reconstruction_error: 17.2267 - regularization_error: 19.1967 - val_loss: 70.3856 - val_reconstruction_error: 53.7966 - val_regularization_error: 16.5890
Epoch 812/1000
120/120 [=====] - 15s 127ms/step - loss: 36.3206 - reconstruction_error: 17.2218 - regularization_error: 19.0988 - val_loss: 70.6151 - val_reconstruction_error: 53.6090 - val_regularization_error: 17.0061
Epoch 813/1000
120/120 [=====] - 14s 116ms/step - loss: 36.3445 - reconstruction_error: 17.2966 - regularization_error: 19.0479 - val_loss: 70.5047 - val_reconstruction_error: 53.3982 - val_regularization_error: 17.1065
Epoch 814/1000
120/120 [=====] - 15s 126ms/step - loss: 36.2479 - reconstruction_error: 17.2267 - regularization_error: 19.0212 - val_loss: 71.2870 - val_reconstruction_error: 54.0168 - val_regularization_error: 17.2702
Epoch 815/1000
120/120 [=====] - 17s 138ms/step - loss: 36.3181 - reconstruction_error: 17.1961 - regularization_error: 19.1219 - val_loss: 71.1142 - val_reconstruction_error: 54.0128 - val_regularization_error: 17.1014
Epoch 816/1000
120/120 [=====] - 19s 158ms/step - loss: 36.2256 - reconstruction_error: 17.1671 - regularization_error: 19.0585 - val_loss: 70.7828 - val_reconstruction_error: 53.6470 - val_regularization_error: 17.1358
Epoch 817/1000
120/120 [=====] - 17s 138ms/step - loss: 36.3684 - reconstruction_error: 17.2422 - regularization_error: 19.1262 - val_loss: 70.7180 - val_reconstruction_error: 54.3056 - val_regularization_error: 16.4124
Epoch 818/1000
120/120 [=====] - 16s 136ms/step - loss: 36.3440 - reconstruction_error: 17.4014 - regularization_error: 18.9426 - val_loss: 71.5249 - val_reconstruction_error: 54.7858 - val_regularization_error: 16.7391
Epoch 819/1000
120/120 [=====] - 17s 140ms/step - loss: 36.5083 - reconstruction_error: 17.4134 - regularization_error: 19.0950 - val_loss: 71.3542 - val_reconstruction_error: 53.9120 - val_regularization_error: 17.4422
Epoch 820/1000
120/120 [=====] - 17s 138ms/step - loss: 36.1974 - reconstruction_error: 17.1080 - regularization_error: 19.0894 - val_loss: 71.8619 - val_reconstruction_error: 54.0820 - val_regularization_error: 17.7799
Epoch 821/1000
120/120 [=====] - ETA: 0s - loss: 36.2102 - reconstruction_error: 17.2454 - regularization_error: 18.9648
[2023-12-02 20:27:47.314785]: Reconstructing images for epoch 821 ...
```



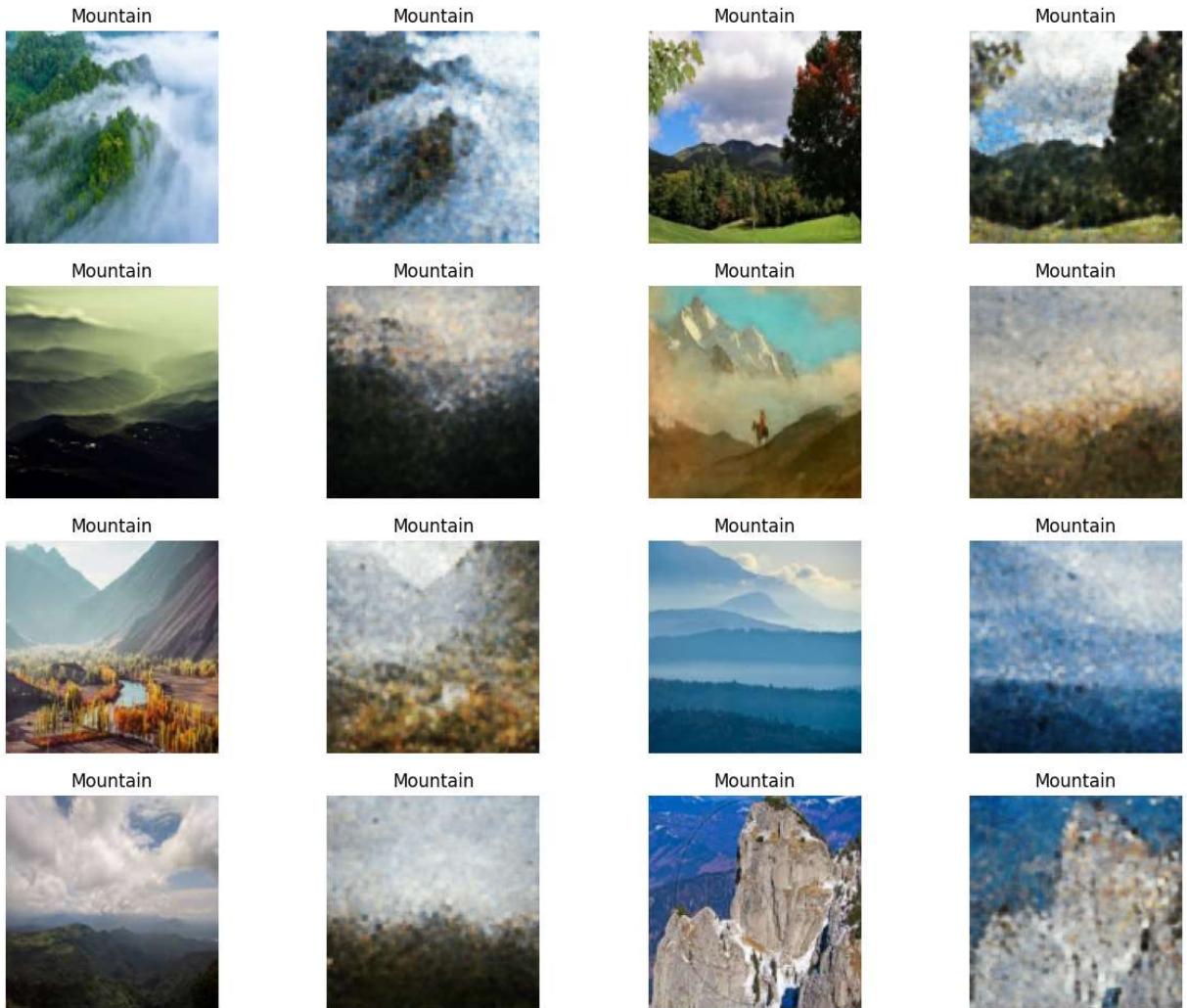
```
120/120 [=====] - 16s 134ms/step - loss: 36.2102 - reconstruction_error: 17.2454 - regularization_error: 18.9648 - val_loss: 71.3476 - val_reconstruction_error: 53.6872 - val_regularization_error: 17.6603
Epoch 822/1000
120/120 [=====] - 13s 105ms/step - loss: 36.1905 - reconstruction_error: 17.1253 - regularization_error: 19.0651 - val_loss: 70.8983 - val_reconstruction_error: 54.1407 - val_regularization_error: 16.7576
Epoch 823/1000
120/120 [=====] - 17s 140ms/step - loss: 36.1183 - reconstruction_error: 17.1016 - regularization_error: 19.0167 - val_loss: 71.0083 - val_reconstruction_error: 53.9310 - val_regularization_error: 17.0772
Epoch 824/1000
120/120 [=====] - 15s 123ms/step - loss: 36.0940 - reconstruction_error: 17.1400 - regularization_error: 18.9540 - val_loss: 70.6805 - val_reconstruction_error: 53.4884 - val_regularization_error: 17.1921
Epoch 825/1000
120/120 [=====] - 18s 148ms/step - loss: 36.4583 - reconstruction_error: 17.3345 - regularization_error: 19.1238 - val_loss: 70.6540 - val_reconstruction_error: 53.4123 - val_regularization_error: 17.2417
Epoch 826/1000
120/120 [=====] - 17s 142ms/step - loss: 36.0379 - reconstruction_error: 17.0967 - regularization_error: 18.9413 - val_loss: 70.2215 - val_reconstruction_error: 53.1489 - val_regularization_error: 17.0726
Epoch 827/1000
120/120 [=====] - 14s 113ms/step - loss: 36.1288 - reconstruction_error: 17.1067 - regularization_error: 19.0221 - val_loss: 71.5680 - val_reconstruction_error: 53.3903 - val_regularization_error: 18.1777
Epoch 828/1000
120/120 [=====] - 16s 132ms/step - loss: 36.2952 - reconstruction_error: 17.1037 - regularization_error: 19.1915 - val_loss: 71.1615 - val_reconstruction_error: 53.6905 - val_regularization_error: 17.4711
Epoch 829/1000
120/120 [=====] - 14s 112ms/step - loss: 36.3603 - reconstruction_error: 17.2480 - regularization_error: 19.1124 - val_loss: 72.8104 - val_reconstruction_error: 55.2468 - val_regularization_error: 17.5635
Epoch 830/1000
120/120 [=====] - 17s 138ms/step - loss: 36.4948 - reconstruction_error: 17.3475 - regularization_error: 19.1473 - val_loss: 71.7515 - val_reconstruction_error: 54.4066 - val_regularization_error: 17.3449
Epoch 831/1000
120/120 [=====] - ETA: 0s - loss: 36.4034 - reconstruction_error: 17.2254 - regularization_error: 19.1780
[2023-12-02 20:30:28.082490]: Reconstructing images for epoch 831 ...
```



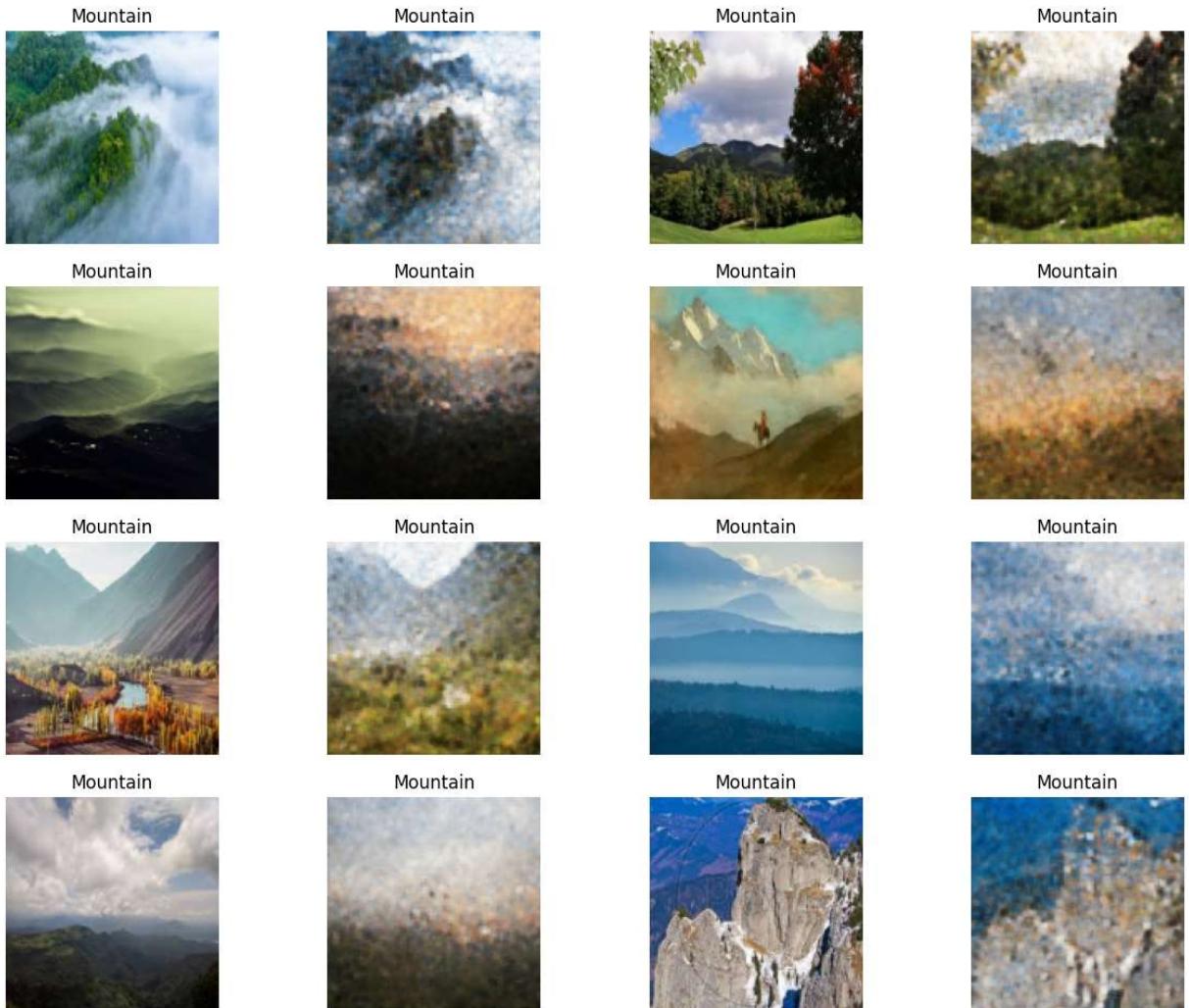
```
120/120 [=====] - 20s 170ms/step - loss: 36.4034 - reconstruction_error: 17.2254 - regularization_error: 19.1780 - val_loss: 70.9164 - val_reconstruction_error: 53.9405 - val_regularization_error: 16.9758
Epoch 832/1000
120/120 [=====] - 19s 158ms/step - loss: 36.3647 - reconstruction_error: 17.1319 - regularization_error: 19.2328 - val_loss: 70.5351 - val_reconstruction_error: 54.8243 - val_regularization_error: 15.7109
Epoch 833/1000
120/120 [=====] - 16s 130ms/step - loss: 36.2538 - reconstruction_error: 17.1999 - regularization_error: 19.0539 - val_loss: 70.0362 - val_reconstruction_error: 53.0920 - val_regularization_error: 16.9442
Epoch 834/1000
120/120 [=====] - 18s 148ms/step - loss: 36.2653 - reconstruction_error: 17.1405 - regularization_error: 19.1248 - val_loss: 71.0622 - val_reconstruction_error: 54.0748 - val_regularization_error: 16.9875
Epoch 835/1000
120/120 [=====] - 16s 130ms/step - loss: 36.1070 - reconstruction_error: 17.0643 - regularization_error: 19.0427 - val_loss: 70.7182 - val_reconstruction_error: 54.0808 - val_regularization_error: 16.6374
Epoch 836/1000
120/120 [=====] - 17s 137ms/step - loss: 36.0926 - reconstruction_error: 17.1506 - regularization_error: 18.9420 - val_loss: 70.5397 - val_reconstruction_error: 53.6522 - val_regularization_error: 16.8874
Epoch 837/1000
120/120 [=====] - 15s 120ms/step - loss: 36.2256 - reconstruction_error: 17.1324 - regularization_error: 19.0932 - val_loss: 70.7006 - val_reconstruction_error: 53.6911 - val_regularization_error: 17.0095
Epoch 838/1000
120/120 [=====] - 17s 140ms/step - loss: 36.3227 - reconstruction_error: 17.1990 - regularization_error: 19.1237 - val_loss: 70.6585 - val_reconstruction_error: 54.3636 - val_regularization_error: 16.2949
Epoch 839/1000
120/120 [=====] - 14s 120ms/step - loss: 36.0263 - reconstruction_error: 17.1171 - regularization_error: 18.9091 - val_loss: 70.4388 - val_reconstruction_error: 53.6466 - val_regularization_error: 16.7922
Epoch 840/1000
120/120 [=====] - 16s 132ms/step - loss: 36.2053 - reconstruction_error: 17.1849 - regularization_error: 19.0203 - val_loss: 70.4309 - val_reconstruction_error: 54.3375 - val_regularization_error: 16.0934
Epoch 841/1000
120/120 [=====] - ETA: 0s - loss: 36.4222 - reconstruction_error: 17.2643 - regularization_error: 19.1579
[2023-12-02 20:33:12.921137]: Reconstructing images for epoch 841 ...
```



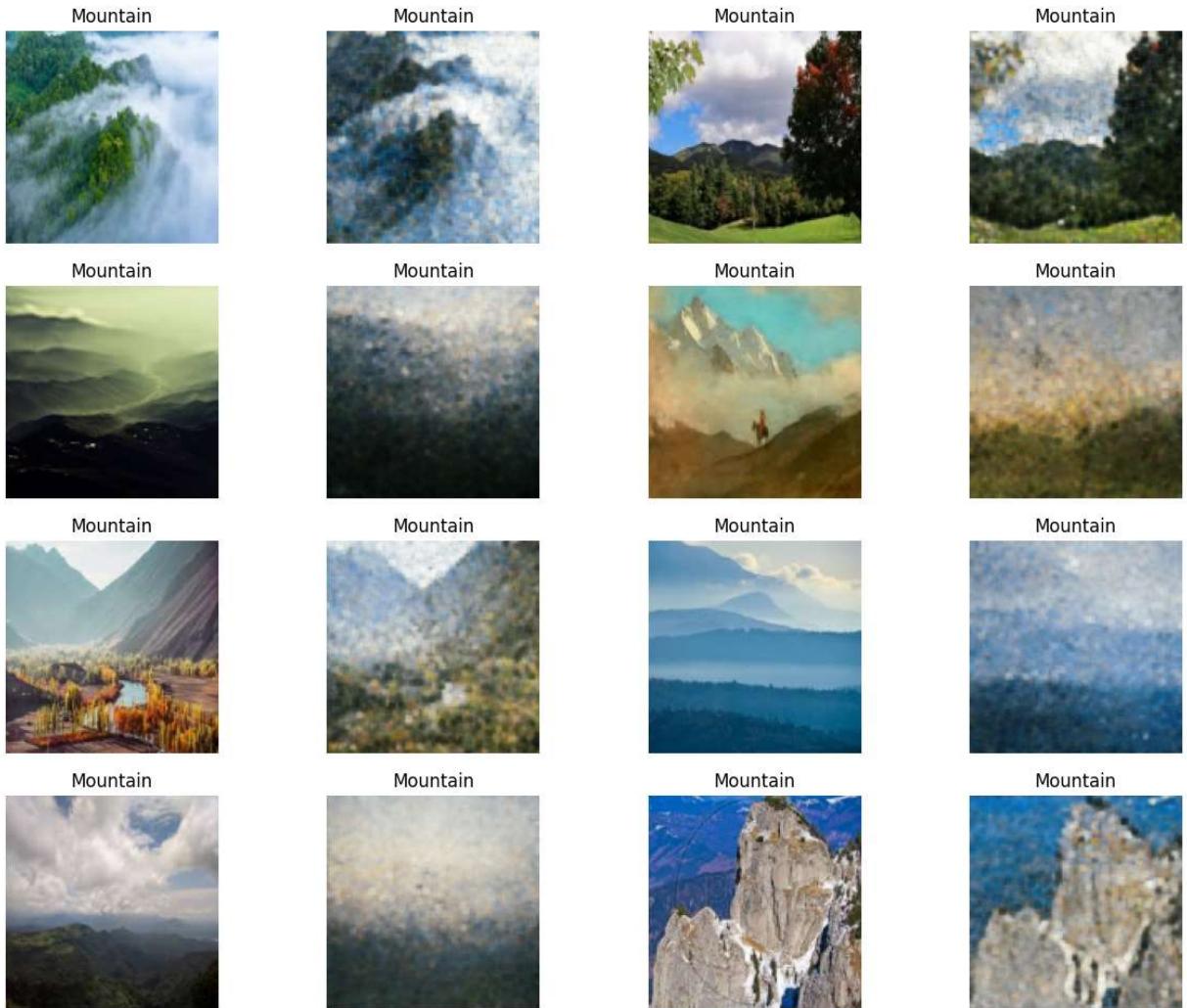
```
120/120 [=====] - 16s 134ms/step - loss: 36.4222 - reconstruction_error: 17.2643 - regularization_error: 19.1579 - val_loss: 71.7664 - val_reconstruction_error: 54.1546 - val_regularization_error: 17.6117
Epoch 842/1000
120/120 [=====] - 14s 119ms/step - loss: 36.2226 - reconstruction_error: 17.1312 - regularization_error: 19.0914 - val_loss: 70.9591 - val_reconstruction_error: 53.5645 - val_regularization_error: 17.3946
Epoch 843/1000
120/120 [=====] - 17s 139ms/step - loss: 35.9537 - reconstruction_error: 16.9740 - regularization_error: 18.9797 - val_loss: 72.1758 - val_reconstruction_error: 54.2010 - val_regularization_error: 17.9749
Epoch 844/1000
120/120 [=====] - 13s 110ms/step - loss: 36.2711 - reconstruction_error: 17.2452 - regularization_error: 19.0258 - val_loss: 70.6544 - val_reconstruction_error: 53.4481 - val_regularization_error: 17.2063
Epoch 845/1000
120/120 [=====] - 17s 142ms/step - loss: 36.0129 - reconstruction_error: 17.0065 - regularization_error: 19.0064 - val_loss: 72.3496 - val_reconstruction_error: 55.1173 - val_regularization_error: 17.2323
Epoch 846/1000
120/120 [=====] - 17s 143ms/step - loss: 36.0400 - reconstruction_error: 17.0848 - regularization_error: 18.9552 - val_loss: 71.4442 - val_reconstruction_error: 54.5271 - val_regularization_error: 16.9171
Epoch 847/1000
120/120 [=====] - 16s 130ms/step - loss: 36.0680 - reconstruction_error: 17.0312 - regularization_error: 19.0368 - val_loss: 70.9905 - val_reconstruction_error: 54.1004 - val_regularization_error: 16.8900
Epoch 848/1000
120/120 [=====] - 16s 135ms/step - loss: 36.2506 - reconstruction_error: 17.0540 - regularization_error: 19.1966 - val_loss: 70.6300 - val_reconstruction_error: 54.1103 - val_regularization_error: 16.5198
Epoch 849/1000
120/120 [=====] - 18s 141ms/step - loss: 36.0233 - reconstruction_error: 17.0504 - regularization_error: 18.9729 - val_loss: 70.3665 - val_reconstruction_error: 53.7523 - val_regularization_error: 16.6143
Epoch 850/1000
120/120 [=====] - 17s 145ms/step - loss: 36.1922 - reconstruction_error: 17.1173 - regularization_error: 19.0749 - val_loss: 71.0937 - val_reconstruction_error: 54.0209 - val_regularization_error: 17.0728
Epoch 851/1000
120/120 [=====] - ETA: 0s - loss: 36.3037 - reconstruction_error: 17.1456 - regularization_error: 19.1581
[2023-12-02 20:36:00.205764]: Reconstructing images for epoch 851 ...
```



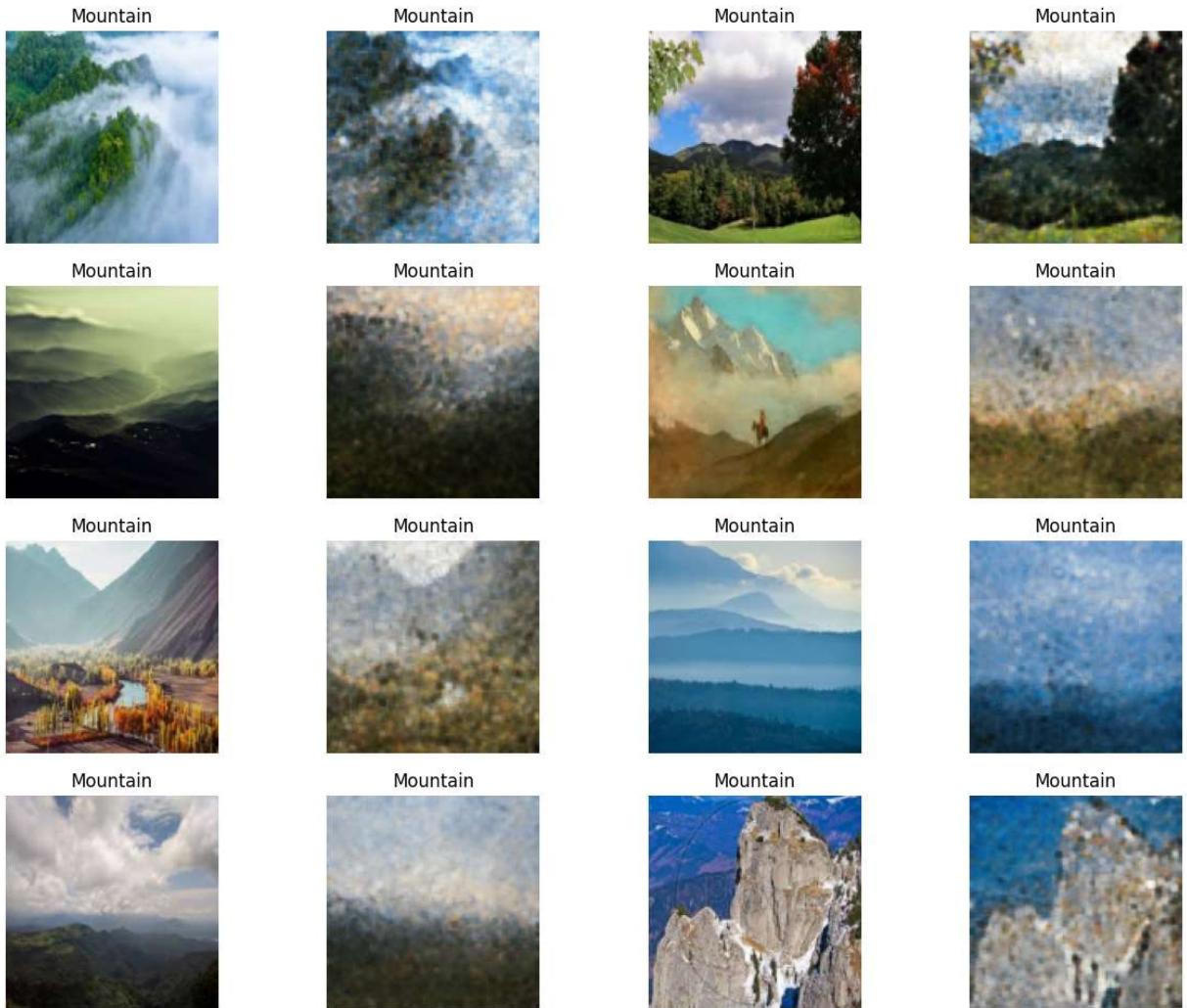
```
120/120 [=====] - 21s 172ms/step - loss: 36.3037 - reconstruction_error: 17.1456 - regularization_error: 19.1581 - val_loss: 71.3159 - val_reconstruction_error: 53.4817 - val_regularization_error: 17.8343
Epoch 852/1000
120/120 [=====] - 12s 104ms/step - loss: 36.2249 - reconstruction_error: 17.2093 - regularization_error: 19.0157 - val_loss: 70.1894 - val_reconstruction_error: 53.1148 - val_regularization_error: 17.0746
Epoch 853/1000
120/120 [=====] - 17s 137ms/step - loss: 36.2427 - reconstruction_error: 17.0346 - regularization_error: 19.2080 - val_loss: 71.9150 - val_reconstruction_error: 54.2172 - val_regularization_error: 17.6978
Epoch 854/1000
120/120 [=====] - 14s 112ms/step - loss: 36.2827 - reconstruction_error: 17.0757 - regularization_error: 19.2070 - val_loss: 70.1803 - val_reconstruction_error: 53.8600 - val_regularization_error: 16.3202
Epoch 855/1000
120/120 [=====] - 15s 128ms/step - loss: 36.0262 - reconstruction_error: 17.0308 - regularization_error: 18.9954 - val_loss: 71.9940 - val_reconstruction_error: 54.5923 - val_regularization_error: 17.4017
Epoch 856/1000
120/120 [=====] - 17s 138ms/step - loss: 36.0872 - reconstruction_error: 17.0445 - regularization_error: 19.0427 - val_loss: 71.4470 - val_reconstruction_error: 54.4722 - val_regularization_error: 16.9748
Epoch 857/1000
120/120 [=====] - 18s 149ms/step - loss: 36.0909 - reconstruction_error: 17.1025 - regularization_error: 18.9884 - val_loss: 71.8607 - val_reconstruction_error: 54.4460 - val_regularization_error: 17.4147
Epoch 858/1000
120/120 [=====] - 17s 139ms/step - loss: 36.0679 - reconstruction_error: 17.0449 - regularization_error: 19.0229 - val_loss: 70.9427 - val_reconstruction_error: 53.8772 - val_regularization_error: 17.0656
Epoch 859/1000
120/120 [=====] - 13s 107ms/step - loss: 36.0952 - reconstruction_error: 17.0841 - regularization_error: 19.0111 - val_loss: 71.7430 - val_reconstruction_error: 54.1332 - val_regularization_error: 17.6098
Epoch 860/1000
120/120 [=====] - 15s 118ms/step - loss: 35.9021 - reconstruction_error: 16.9580 - regularization_error: 18.9441 - val_loss: 70.6775 - val_reconstruction_error: 54.2297 - val_regularization_error: 16.4478
Epoch 861/1000
120/120 [=====] - ETA: 0s - loss: 35.9540 - reconstruction_error: 16.9630 - regularization_error: 18.9910
[2023-12-02 20:38:35.810070]: Reconstructing images for epoch 861 ...
```



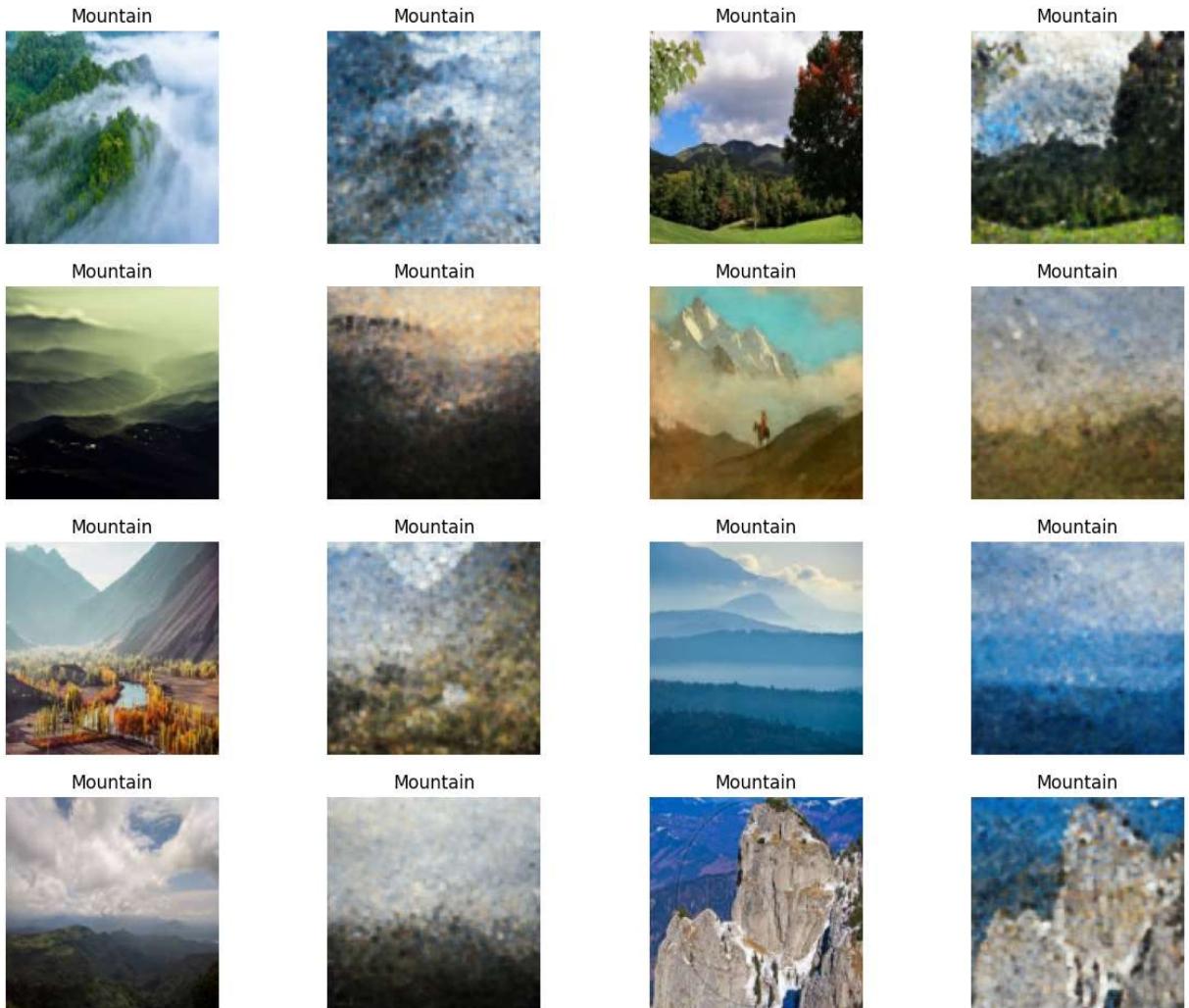
```
120/120 [=====] - 17s 143ms/step - loss: 35.9540 - reconstruction_error: 16.9630 - regularization_error: 18.9910 - val_loss: 71.5747 - val_reconstruction_error: 54.6219 - val_regularization_error: 16.9528
Epoch 862/1000
120/120 [=====] - 15s 123ms/step - loss: 36.0387 - reconstruction_error: 17.0272 - regularization_error: 19.0115 - val_loss: 70.9541 - val_reconstruction_error: 53.6479 - val_regularization_error: 17.3062
Epoch 863/1000
120/120 [=====] - 15s 122ms/step - loss: 36.1790 - reconstruction_error: 17.0935 - regularization_error: 19.0855 - val_loss: 72.1755 - val_reconstruction_error: 55.1209 - val_regularization_error: 17.0546
Epoch 864/1000
120/120 [=====] - 16s 130ms/step - loss: 36.1264 - reconstruction_error: 17.1061 - regularization_error: 19.0203 - val_loss: 70.9822 - val_reconstruction_error: 54.4801 - val_regularization_error: 16.5021
Epoch 865/1000
120/120 [=====] - 16s 131ms/step - loss: 36.2985 - reconstruction_error: 17.1530 - regularization_error: 19.1455 - val_loss: 71.4590 - val_reconstruction_error: 54.9789 - val_regularization_error: 16.4801
Epoch 866/1000
120/120 [=====] - 13s 106ms/step - loss: 36.1091 - reconstruction_error: 17.0639 - regularization_error: 19.0453 - val_loss: 70.9657 - val_reconstruction_error: 54.4261 - val_regularization_error: 16.5396
Epoch 867/1000
120/120 [=====] - 15s 124ms/step - loss: 35.9352 - reconstruction_error: 16.9937 - regularization_error: 18.9414 - val_loss: 71.0673 - val_reconstruction_error: 54.0296 - val_regularization_error: 17.0377
Epoch 868/1000
120/120 [=====] - 16s 131ms/step - loss: 36.0235 - reconstruction_error: 17.0371 - regularization_error: 18.9864 - val_loss: 70.4916 - val_reconstruction_error: 53.4354 - val_regularization_error: 17.0562
Epoch 869/1000
120/120 [=====] - 16s 134ms/step - loss: 36.0395 - reconstruction_error: 16.9988 - regularization_error: 19.0407 - val_loss: 70.6871 - val_reconstruction_error: 53.8400 - val_regularization_error: 16.8471
Epoch 870/1000
120/120 [=====] - 16s 130ms/step - loss: 36.0337 - reconstruction_error: 16.9642 - regularization_error: 19.0694 - val_loss: 72.0637 - val_reconstruction_error: 55.4146 - val_regularization_error: 16.6492
Epoch 871/1000
120/120 [=====] - ETA: 0s - loss: 36.5180 - reconstruction_error: 17.3201 - regularization_error: 19.1979
[2023-12-02 20:41:13.077534]: Reconstructing images for epoch 871 ...
```



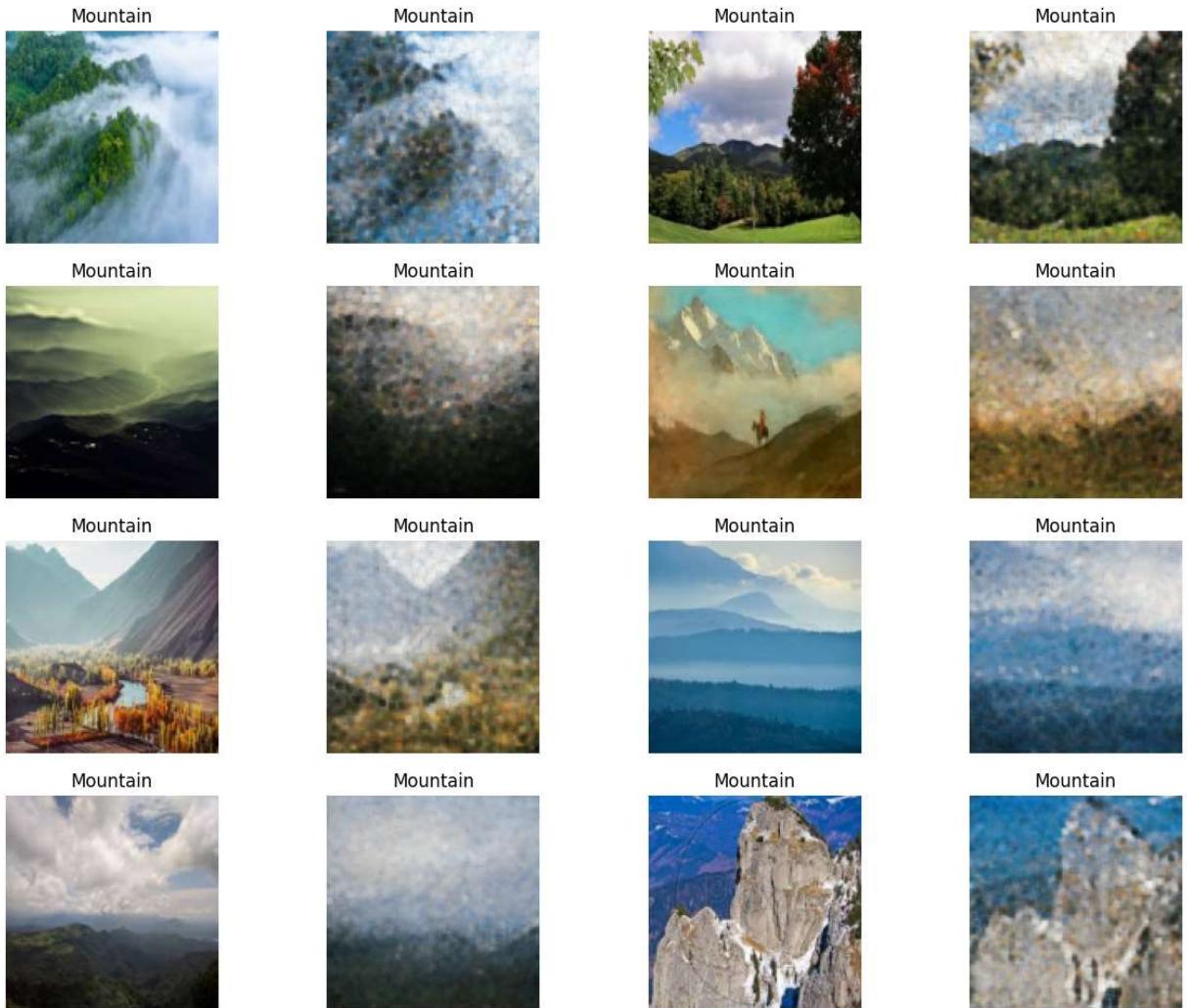
```
120/120 [=====] - 18s 153ms/step - loss: 36.5180 - reconstruction_error: 17.3201 - regularization_error: 19.1979 - val_loss: 71.1364 - val_reconstruction_error: 54.1820 - val_regularization_error: 16.9544
Epoch 872/1000
120/120 [=====] - 15s 122ms/step - loss: 36.0755 - reconstruction_error: 16.9600 - regularization_error: 19.1155 - val_loss: 72.0076 - val_reconstruction_error: 53.7622 - val_regularization_error: 18.2454
Epoch 873/1000
120/120 [=====] - 17s 137ms/step - loss: 36.0914 - reconstruction_error: 16.8957 - regularization_error: 19.1957 - val_loss: 71.7882 - val_reconstruction_error: 54.3920 - val_regularization_error: 17.3962
Epoch 874/1000
120/120 [=====] - 14s 118ms/step - loss: 36.0581 - reconstruction_error: 16.9398 - regularization_error: 19.1182 - val_loss: 72.3283 - val_reconstruction_error: 55.1173 - val_regularization_error: 17.2109
Epoch 875/1000
120/120 [=====] - 16s 131ms/step - loss: 36.1011 - reconstruction_error: 17.0348 - regularization_error: 19.0663 - val_loss: 72.2915 - val_reconstruction_error: 54.7274 - val_regularization_error: 17.5642
Epoch 876/1000
120/120 [=====] - 16s 131ms/step - loss: 35.8912 - reconstruction_error: 16.8064 - regularization_error: 19.0849 - val_loss: 70.8944 - val_reconstruction_error: 53.9971 - val_regularization_error: 16.8973
Epoch 877/1000
120/120 [=====] - 15s 121ms/step - loss: 36.0385 - reconstruction_error: 16.9688 - regularization_error: 19.0697 - val_loss: 71.0313 - val_reconstruction_error: 53.8572 - val_regularization_error: 17.1741
Epoch 878/1000
120/120 [=====] - 17s 139ms/step - loss: 35.9930 - reconstruction_error: 16.9730 - regularization_error: 19.0200 - val_loss: 70.8032 - val_reconstruction_error: 54.2558 - val_regularization_error: 16.5474
Epoch 879/1000
120/120 [=====] - 18s 148ms/step - loss: 35.9310 - reconstruction_error: 16.8705 - regularization_error: 19.0605 - val_loss: 71.4747 - val_reconstruction_error: 54.1444 - val_regularization_error: 17.3304
Epoch 880/1000
120/120 [=====] - 16s 131ms/step - loss: 36.1867 - reconstruction_error: 17.1277 - regularization_error: 19.0590 - val_loss: 71.7526 - val_reconstruction_error: 54.2766 - val_regularization_error: 17.4759
Epoch 881/1000
120/120 [=====] - ETA: 0s - loss: 36.0831 - reconstruction_error: 17.0494 - regularization_error: 19.0337
[2023-12-02 20:44:02.170032]: Reconstructing images for epoch 881 ...
```



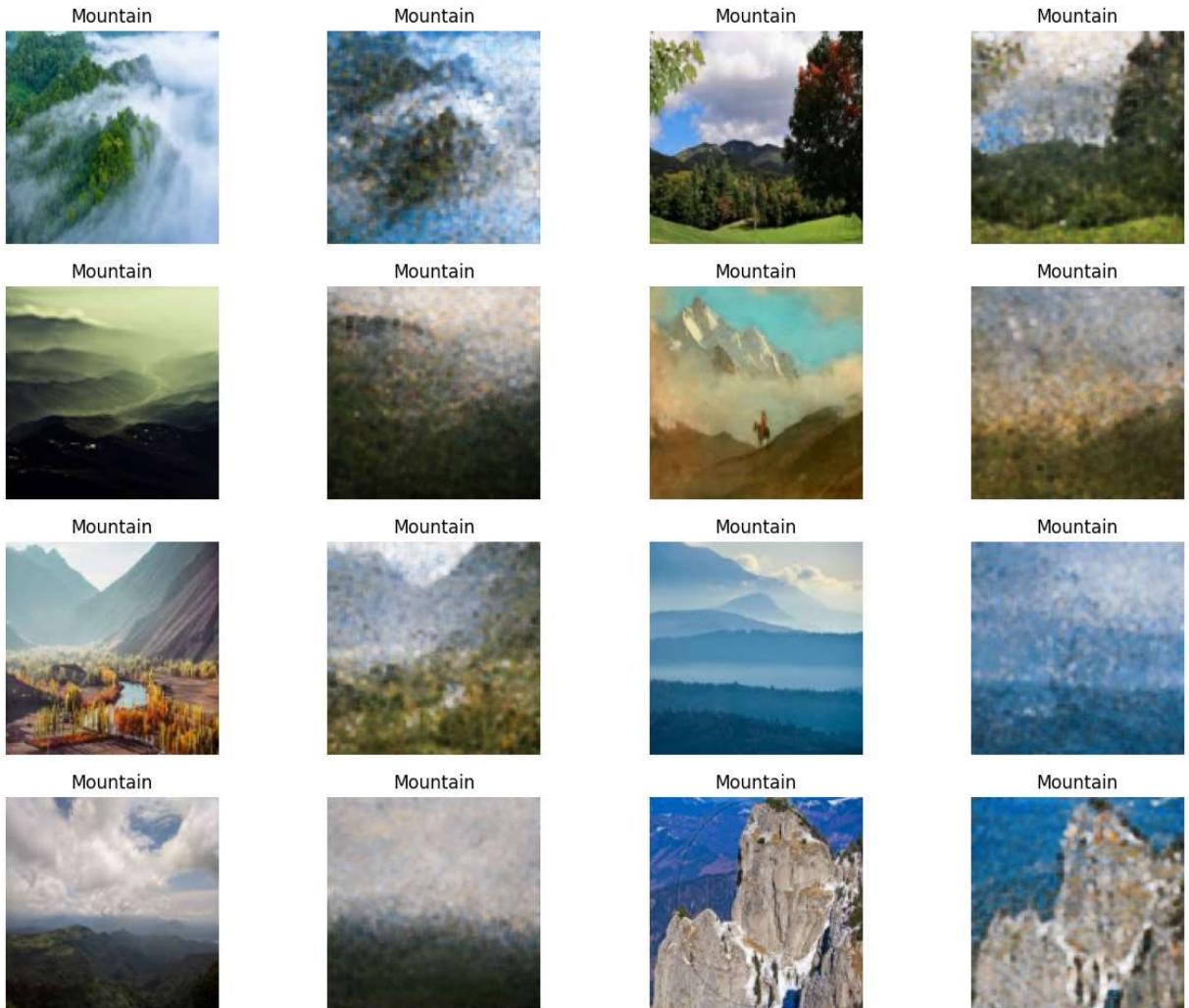
```
120/120 [=====] - 18s 152ms/step - loss: 36.0831 - reconstruction_error: 17.0494 - regularization_error: 19.0337 - val_loss: 72.9028 - val_reconstruction_error: 56.4061 - val_regularization_error: 16.4968
Epoch 882/1000
120/120 [=====] - 15s 128ms/step - loss: 35.9733 - reconstruction_error: 16.9541 - regularization_error: 19.0192 - val_loss: 71.8757 - val_reconstruction_error: 53.9334 - val_regularization_error: 17.9423
Epoch 883/1000
120/120 [=====] - 16s 134ms/step - loss: 35.9717 - reconstruction_error: 16.9005 - regularization_error: 19.0712 - val_loss: 70.0285 - val_reconstruction_error: 53.9054 - val_regularization_error: 16.1231
Epoch 884/1000
120/120 [=====] - 17s 136ms/step - loss: 36.0546 - reconstruction_error: 17.0666 - regularization_error: 18.9880 - val_loss: 70.9159 - val_reconstruction_error: 53.9176 - val_regularization_error: 16.9983
Epoch 885/1000
120/120 [=====] - 16s 135ms/step - loss: 35.8677 - reconstruction_error: 16.8572 - regularization_error: 19.0105 - val_loss: 71.5734 - val_reconstruction_error: 54.6464 - val_regularization_error: 16.9271
Epoch 886/1000
120/120 [=====] - 17s 137ms/step - loss: 36.0224 - reconstruction_error: 16.9855 - regularization_error: 19.0369 - val_loss: 69.5028 - val_reconstruction_error: 52.9162 - val_regularization_error: 16.5866
Epoch 887/1000
120/120 [=====] - 16s 130ms/step - loss: 36.1997 - reconstruction_error: 16.9603 - regularization_error: 19.2395 - val_loss: 70.4424 - val_reconstruction_error: 53.3298 - val_regularization_error: 17.1126
Epoch 888/1000
120/120 [=====] - 15s 124ms/step - loss: 35.8919 - reconstruction_error: 16.8765 - regularization_error: 19.0154 - val_loss: 71.6170 - val_reconstruction_error: 53.8839 - val_regularization_error: 17.7331
Epoch 889/1000
120/120 [=====] - 16s 128ms/step - loss: 35.9259 - reconstruction_error: 16.8477 - regularization_error: 19.0782 - val_loss: 70.7707 - val_reconstruction_error: 54.5972 - val_regularization_error: 16.1735
Epoch 890/1000
120/120 [=====] - 16s 134ms/step - loss: 35.9866 - reconstruction_error: 16.9589 - regularization_error: 19.0277 - val_loss: 71.4068 - val_reconstruction_error: 53.7301 - val_regularization_error: 17.6767
Epoch 891/1000
120/120 [=====] - ETA: 0s - loss: 36.2831 - reconstruction_error: 17.1225 - regularization_error: 19.1607
[2023-12-02 20:46:47.497939]: Reconstructing images for epoch 891 ...
```



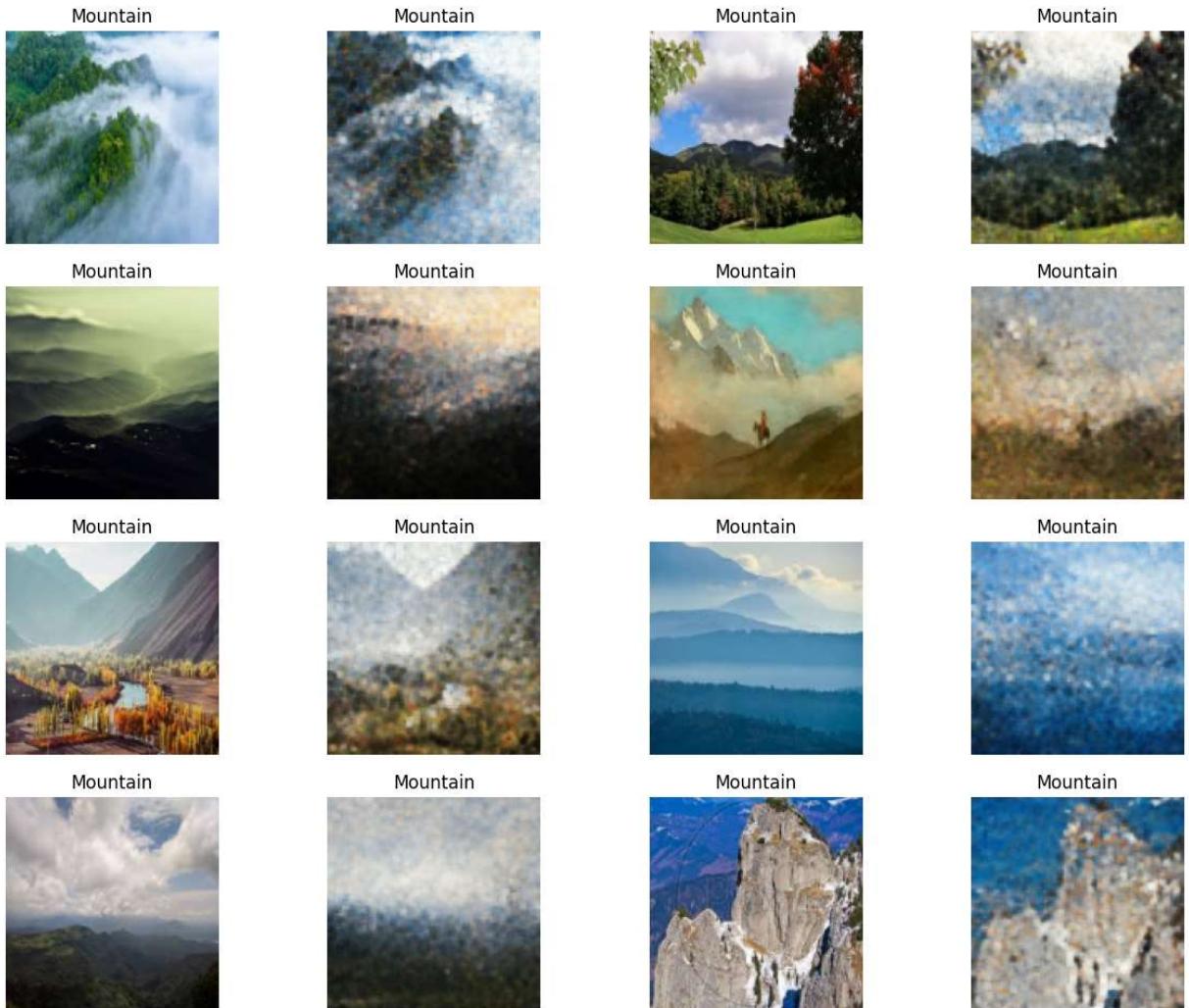
```
120/120 [=====] - 20s 163ms/step - loss: 36.2831 - reconstruction_error: 17.1225 - regularization_error: 19.1607 - val_loss: 72.9406 - val_reconstruction_error: 56.4092 - val_regularization_error: 16.5314
Epoch 892/1000
120/120 [=====] - 18s 148ms/step - loss: 36.0046 - reconstruction_error: 16.9871 - regularization_error: 19.0175 - val_loss: 70.3870 - val_reconstruction_error: 53.6020 - val_regularization_error: 16.7851
Epoch 893/1000
120/120 [=====] - 14s 112ms/step - loss: 36.1016 - reconstruction_error: 16.9870 - regularization_error: 19.1146 - val_loss: 70.7534 - val_reconstruction_error: 54.0769 - val_regularization_error: 16.6765
Epoch 894/1000
120/120 [=====] - 14s 120ms/step - loss: 35.8181 - reconstruction_error: 16.8570 - regularization_error: 18.9610 - val_loss: 72.8300 - val_reconstruction_error: 55.4520 - val_regularization_error: 17.3780
Epoch 895/1000
120/120 [=====] - 17s 139ms/step - loss: 36.0123 - reconstruction_error: 16.9806 - regularization_error: 19.0317 - val_loss: 71.3757 - val_reconstruction_error: 55.0127 - val_regularization_error: 16.3630
Epoch 896/1000
120/120 [=====] - 17s 138ms/step - loss: 35.7897 - reconstruction_error: 16.8821 - regularization_error: 18.9076 - val_loss: 70.6607 - val_reconstruction_error: 53.7472 - val_regularization_error: 16.9135
Epoch 897/1000
120/120 [=====] - 15s 121ms/step - loss: 35.8409 - reconstruction_error: 16.7937 - regularization_error: 19.0472 - val_loss: 71.1855 - val_reconstruction_error: 54.2060 - val_regularization_error: 16.9795
Epoch 898/1000
120/120 [=====] - 15s 123ms/step - loss: 35.7994 - reconstruction_error: 16.8171 - regularization_error: 18.9824 - val_loss: 71.0452 - val_reconstruction_error: 54.4032 - val_regularization_error: 16.6420
Epoch 899/1000
120/120 [=====] - 16s 134ms/step - loss: 35.8305 - reconstruction_error: 16.8803 - regularization_error: 18.9503 - val_loss: 71.1170 - val_reconstruction_error: 54.0212 - val_regularization_error: 17.0958
Epoch 900/1000
120/120 [=====] - 18s 145ms/step - loss: 35.9726 - reconstruction_error: 16.9151 - regularization_error: 19.0574 - val_loss: 71.7090 - val_reconstruction_error: 54.3044 - val_regularization_error: 17.4046
Epoch 901/1000
120/120 [=====] - ETA: 0s - loss: 36.0470 - reconstruction_error: 16.9756 - regularization_error: 19.0714
[2023-12-02 20:49:31.999638]: Reconstructing images for epoch 901 ...
```



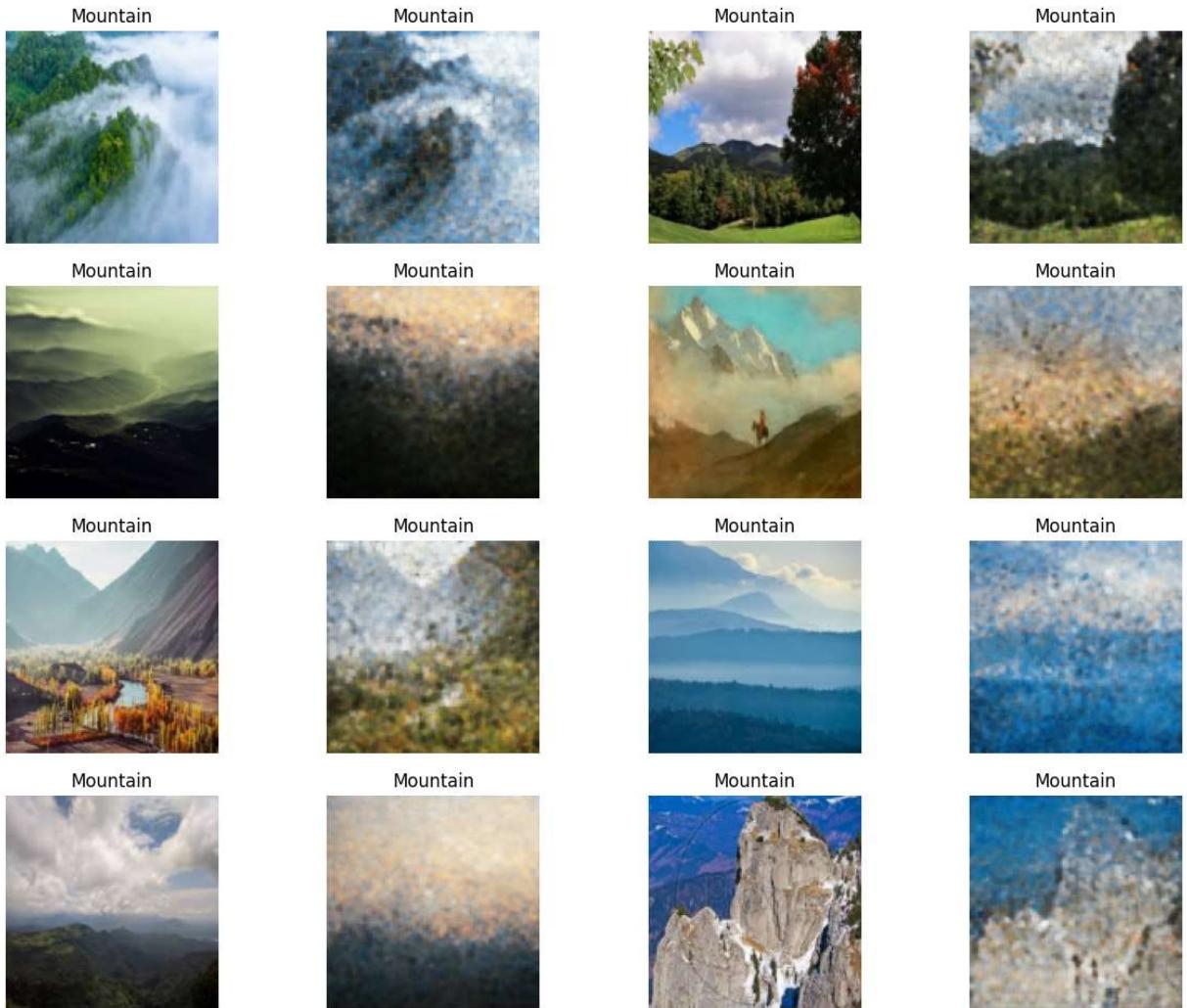
```
120/120 [=====] - 19s 161ms/step - loss: 36.0470 - reconstruction_error: 16.9756 - regularization_error: 19.0714 - val_loss: 71.2139 - val_reconstruction_error: 54.0063 - val_regularization_error: 17.2076
Epoch 902/1000
120/120 [=====] - 14s 117ms/step - loss: 35.8374 - reconstruction_error: 16.8036 - regularization_error: 19.0338 - val_loss: 71.6254 - val_reconstruction_error: 54.4050 - val_regularization_error: 17.2204
Epoch 903/1000
120/120 [=====] - 15s 121ms/step - loss: 35.9557 - reconstruction_error: 16.8447 - regularization_error: 19.1110 - val_loss: 71.5939 - val_reconstruction_error: 53.8569 - val_regularization_error: 17.7370
Epoch 904/1000
120/120 [=====] - 17s 138ms/step - loss: 35.8726 - reconstruction_error: 16.7817 - regularization_error: 19.0909 - val_loss: 71.7715 - val_reconstruction_error: 53.8178 - val_regularization_error: 17.9538
Epoch 905/1000
120/120 [=====] - 17s 144ms/step - loss: 36.0630 - reconstruction_error: 17.0221 - regularization_error: 19.0410 - val_loss: 72.4535 - val_reconstruction_error: 54.5530 - val_regularization_error: 17.9005
Epoch 906/1000
120/120 [=====] - 14s 117ms/step - loss: 35.8553 - reconstruction_error: 16.8917 - regularization_error: 18.9635 - val_loss: 71.7938 - val_reconstruction_error: 53.9427 - val_regularization_error: 17.8511
Epoch 907/1000
120/120 [=====] - 17s 142ms/step - loss: 35.7277 - reconstruction_error: 16.7687 - regularization_error: 18.9590 - val_loss: 70.4276 - val_reconstruction_error: 54.0252 - val_regularization_error: 16.4025
Epoch 908/1000
120/120 [=====] - 16s 137ms/step - loss: 35.8747 - reconstruction_error: 16.8139 - regularization_error: 19.0608 - val_loss: 70.9650 - val_reconstruction_error: 53.8322 - val_regularization_error: 17.1328
Epoch 909/1000
120/120 [=====] - 17s 137ms/step - loss: 35.9710 - reconstruction_error: 16.9055 - regularization_error: 19.0656 - val_loss: 70.0218 - val_reconstruction_error: 53.6021 - val_regularization_error: 16.4198
Epoch 910/1000
120/120 [=====] - 13s 106ms/step - loss: 35.9019 - reconstruction_error: 16.8910 - regularization_error: 19.0109 - val_loss: 71.3795 - val_reconstruction_error: 55.0332 - val_regularization_error: 16.3463
Epoch 911/1000
120/120 [=====] - ETA: 0s - loss: 35.6643 - reconstruction_error: 16.8308 - regularization_error: 18.8336
[2023-12-02 20:52:12.740722]: Reconstructing images for epoch 911 ...
```



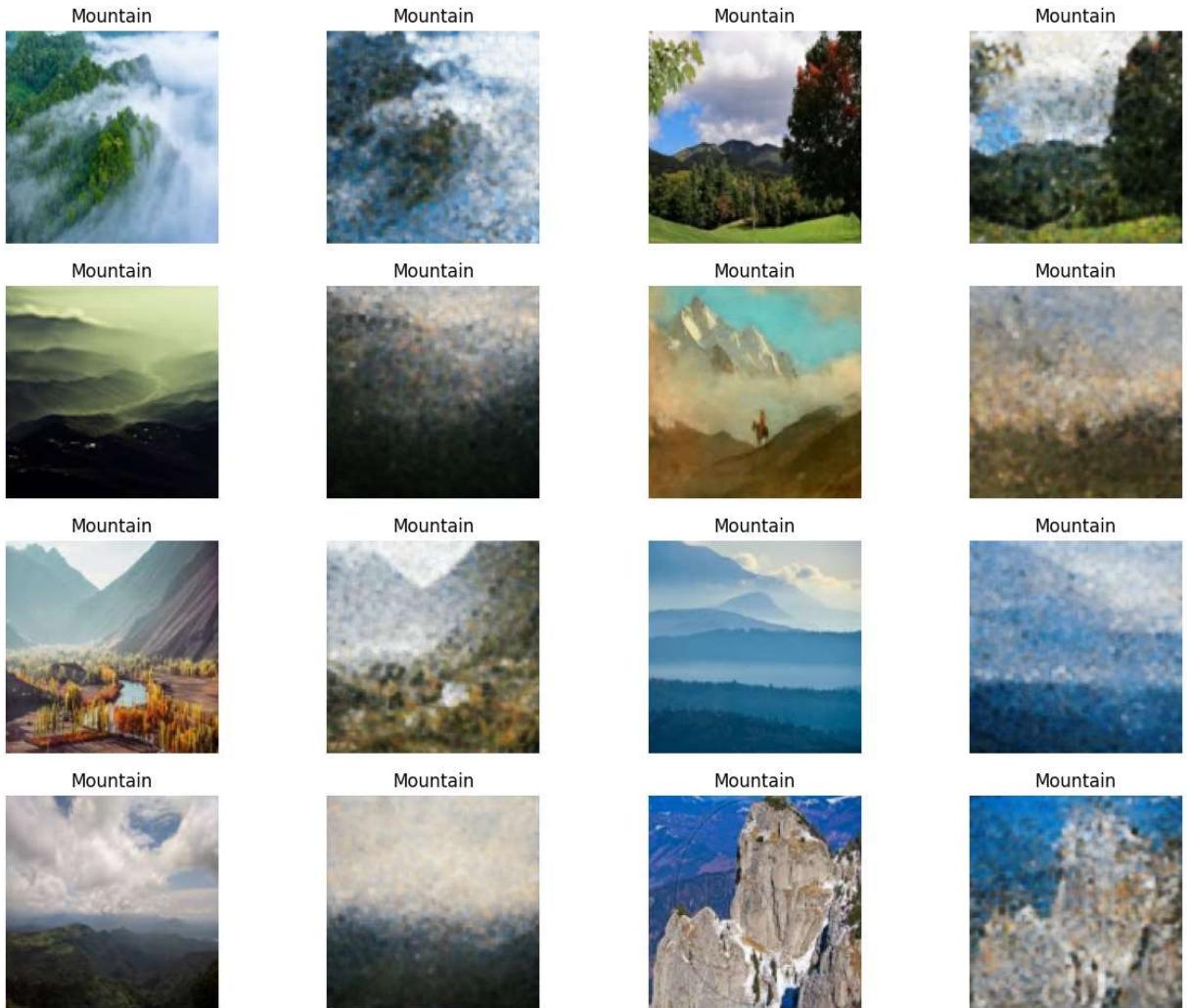
```
120/120 [=====] - 19s 157ms/step - loss: 35.6643 - reconstruction_error: 16.8308 - regularization_error: 18.8336 - val_loss: 71.2104 - val_reconstruction_error: 54.9547 - val_regularization_error: 16.2557
Epoch 912/1000
120/120 [=====] - 18s 146ms/step - loss: 35.7580 - reconstruction_error: 16.7552 - regularization_error: 19.0028 - val_loss: 71.0126 - val_reconstruction_error: 54.4844 - val_regularization_error: 16.5282
Epoch 913/1000
120/120 [=====] - 17s 138ms/step - loss: 35.9715 - reconstruction_error: 16.9749 - regularization_error: 18.9966 - val_loss: 71.4735 - val_reconstruction_error: 54.4799 - val_regularization_error: 16.9936
Epoch 914/1000
120/120 [=====] - 16s 128ms/step - loss: 35.8053 - reconstruction_error: 16.7655 - regularization_error: 19.0398 - val_loss: 72.0244 - val_reconstruction_error: 54.6876 - val_regularization_error: 17.3368
Epoch 915/1000
120/120 [=====] - 16s 133ms/step - loss: 35.7873 - reconstruction_error: 16.8649 - regularization_error: 18.9224 - val_loss: 72.1093 - val_reconstruction_error: 54.3682 - val_regularization_error: 17.7410
Epoch 916/1000
120/120 [=====] - 16s 134ms/step - loss: 35.9219 - reconstruction_error: 16.9203 - regularization_error: 19.0016 - val_loss: 71.7137 - val_reconstruction_error: 54.9584 - val_regularization_error: 16.7553
Epoch 917/1000
120/120 [=====] - 20s 163ms/step - loss: 35.7033 - reconstruction_error: 16.7378 - regularization_error: 18.9655 - val_loss: 70.4976 - val_reconstruction_error: 53.9353 - val_regularization_error: 16.5623
Epoch 918/1000
120/120 [=====] - 18s 146ms/step - loss: 35.9427 - reconstruction_error: 16.8779 - regularization_error: 19.0649 - val_loss: 71.5867 - val_reconstruction_error: 54.1026 - val_regularization_error: 17.4841
Epoch 919/1000
120/120 [=====] - 17s 137ms/step - loss: 35.8593 - reconstruction_error: 16.7401 - regularization_error: 19.1192 - val_loss: 71.6881 - val_reconstruction_error: 54.4403 - val_regularization_error: 17.2477
Epoch 920/1000
120/120 [=====] - 16s 133ms/step - loss: 35.8787 - reconstruction_error: 16.8259 - regularization_error: 19.0528 - val_loss: 70.2692 - val_reconstruction_error: 53.9653 - val_regularization_error: 16.3039
Epoch 921/1000
120/120 [=====] - ETA: 0s - loss: 35.7502 - reconstruction_error: 16.6901 - regularization_error: 19.0601
[2023-12-02 20:55:03.122996]: Reconstructing images for epoch 921 ...
```



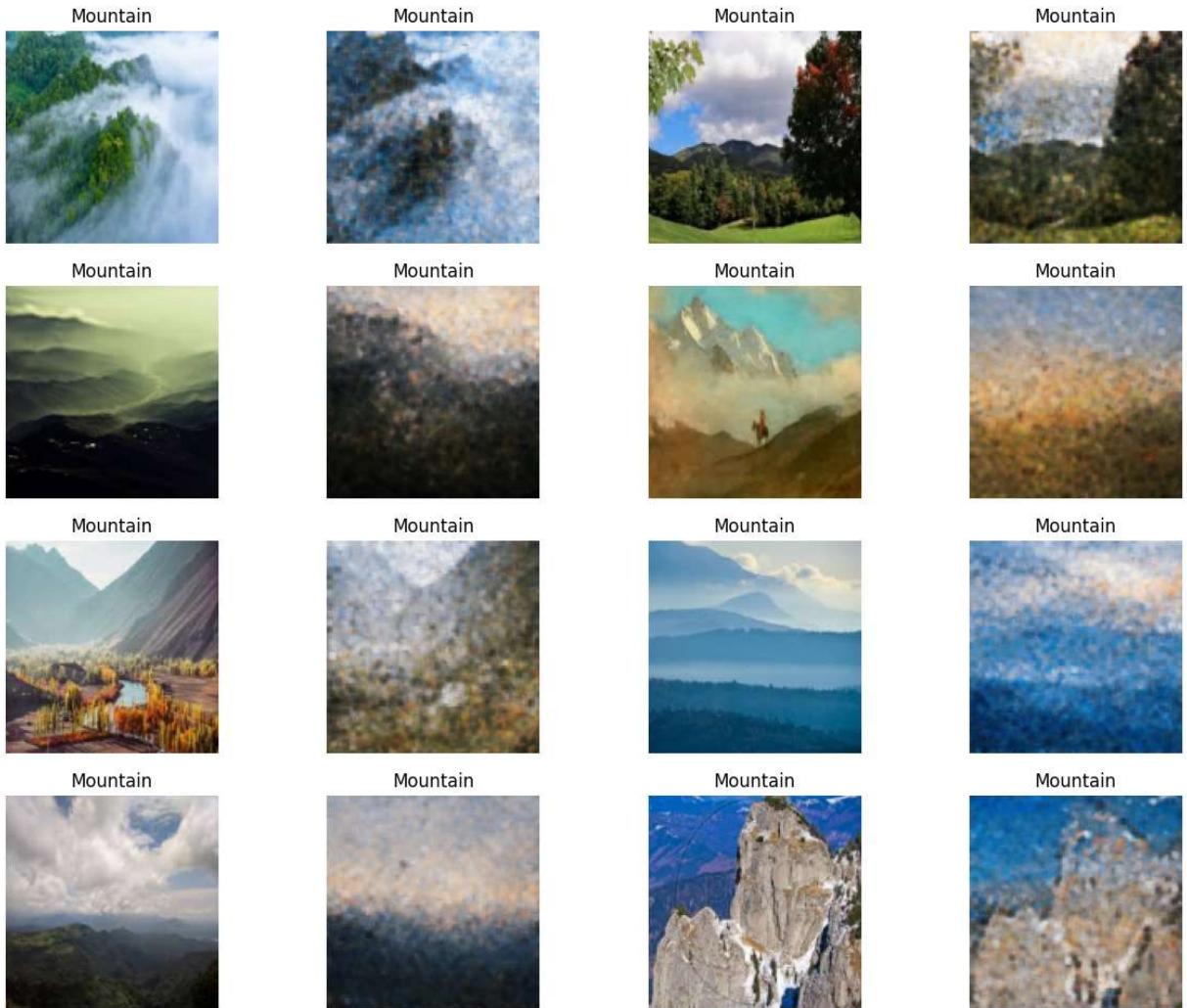
```
120/120 [=====] - 15s 123ms/step - loss: 35.7502 - reconstruction_error: 16.6901 - regularization_error: 19.0601 - val_loss: 72.2308 - val_reconstruction_error: 55.1946 - val_regularization_error: 17.0362
Epoch 922/1000
120/120 [=====] - 16s 128ms/step - loss: 35.7432 - reconstruction_error: 16.7923 - regularization_error: 18.9508 - val_loss: 71.4690 - val_reconstruction_error: 54.3885 - val_regularization_error: 17.0805
Epoch 923/1000
120/120 [=====] - 16s 136ms/step - loss: 35.7461 - reconstruction_error: 16.7841 - regularization_error: 18.9620 - val_loss: 71.4146 - val_reconstruction_error: 54.1551 - val_regularization_error: 17.2594
Epoch 924/1000
120/120 [=====] - 14s 113ms/step - loss: 35.9110 - reconstruction_error: 16.8807 - regularization_error: 19.0303 - val_loss: 71.8058 - val_reconstruction_error: 54.2466 - val_regularization_error: 17.5592
Epoch 925/1000
120/120 [=====] - 15s 127ms/step - loss: 35.9078 - reconstruction_error: 16.8668 - regularization_error: 19.0411 - val_loss: 71.8790 - val_reconstruction_error: 55.1800 - val_regularization_error: 16.6989
Epoch 926/1000
120/120 [=====] - 15s 121ms/step - loss: 35.7114 - reconstruction_error: 16.6870 - regularization_error: 19.0244 - val_loss: 71.1893 - val_reconstruction_error: 54.3290 - val_regularization_error: 16.8603
Epoch 927/1000
120/120 [=====] - 15s 124ms/step - loss: 35.6280 - reconstruction_error: 16.7357 - regularization_error: 18.8923 - val_loss: 71.7393 - val_reconstruction_error: 54.9201 - val_regularization_error: 16.8193
Epoch 928/1000
120/120 [=====] - 15s 126ms/step - loss: 35.9054 - reconstruction_error: 16.8338 - regularization_error: 19.0716 - val_loss: 71.5728 - val_reconstruction_error: 54.2590 - val_regularization_error: 17.3138
Epoch 929/1000
120/120 [=====] - 16s 135ms/step - loss: 35.9853 - reconstruction_error: 16.8255 - regularization_error: 19.1598 - val_loss: 71.1089 - val_reconstruction_error: 53.9445 - val_regularization_error: 17.1644
Epoch 930/1000
120/120 [=====] - 16s 135ms/step - loss: 35.6531 - reconstruction_error: 16.6368 - regularization_error: 19.0164 - val_loss: 70.0992 - val_reconstruction_error: 53.7932 - val_regularization_error: 16.3060
Epoch 931/1000
120/120 [=====] - ETA: 0s - loss: 35.8418 - reconstruction_error: 16.8530 - regularization_error: 18.9889
[2023-12-02 20:57:46.573847]: Reconstructing images for epoch 931 ...
```



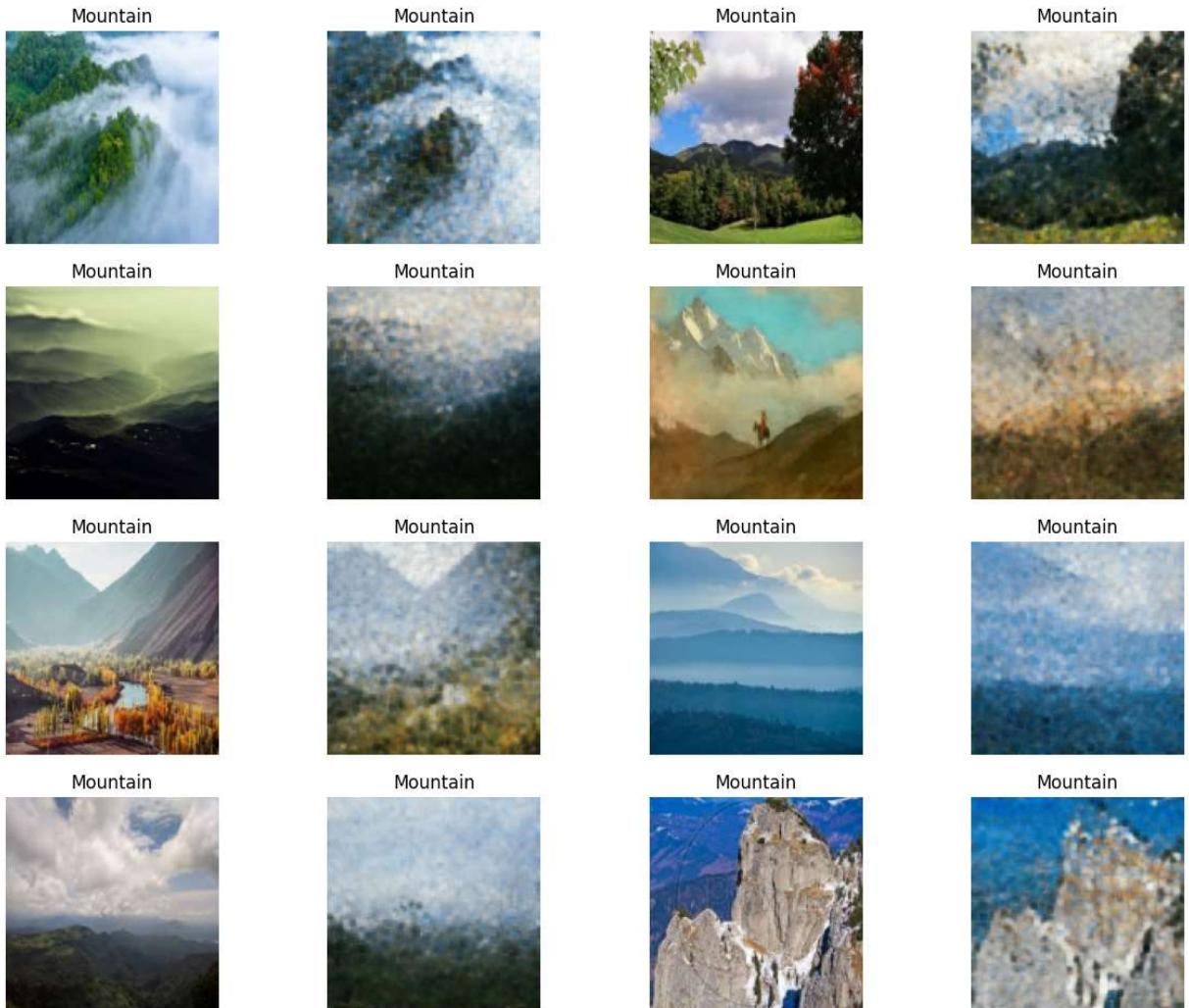
```
120/120 [=====] - 18s 148ms/step - loss: 35.8418 - reconstruction_error: 16.8530 - regularization_error: 18.9889 - val_loss: 71.4805 - val_reconstruction_error: 54.6800 - val_regularization_error: 16.8004
Epoch 932/1000
120/120 [=====] - 14s 118ms/step - loss: 35.5676 - reconstruction_error: 16.7279 - regularization_error: 18.8398 - val_loss: 71.6368 - val_reconstruction_error: 54.1888 - val_regularization_error: 17.4480
Epoch 933/1000
120/120 [=====] - 17s 140ms/step - loss: 35.6386 - reconstruction_error: 16.6944 - regularization_error: 18.9442 - val_loss: 71.1377 - val_reconstruction_error: 54.3349 - val_regularization_error: 16.8028
Epoch 934/1000
120/120 [=====] - 14s 115ms/step - loss: 36.0106 - reconstruction_error: 16.8646 - regularization_error: 19.1460 - val_loss: 71.2765 - val_reconstruction_error: 53.5749 - val_regularization_error: 17.7016
Epoch 935/1000
120/120 [=====] - 16s 135ms/step - loss: 35.9227 - reconstruction_error: 16.7420 - regularization_error: 19.1807 - val_loss: 71.5642 - val_reconstruction_error: 54.0884 - val_regularization_error: 17.4758
Epoch 936/1000
120/120 [=====] - 16s 132ms/step - loss: 35.9323 - reconstruction_error: 16.8243 - regularization_error: 19.1080 - val_loss: 72.0079 - val_reconstruction_error: 54.2814 - val_regularization_error: 17.7265
Epoch 937/1000
120/120 [=====] - 15s 124ms/step - loss: 35.7142 - reconstruction_error: 16.7326 - regularization_error: 18.9816 - val_loss: 71.0520 - val_reconstruction_error: 54.2051 - val_regularization_error: 16.8470
Epoch 938/1000
120/120 [=====] - 16s 132ms/step - loss: 35.8675 - reconstruction_error: 16.7002 - regularization_error: 19.1674 - val_loss: 72.9345 - val_reconstruction_error: 55.5517 - val_regularization_error: 17.3828
Epoch 939/1000
120/120 [=====] - 14s 117ms/step - loss: 35.9209 - reconstruction_error: 16.7916 - regularization_error: 19.1293 - val_loss: 71.2312 - val_reconstruction_error: 54.7843 - val_regularization_error: 16.4468
Epoch 940/1000
120/120 [=====] - 15s 127ms/step - loss: 35.8441 - reconstruction_error: 16.7962 - regularization_error: 19.0479 - val_loss: 72.6522 - val_reconstruction_error: 54.6313 - val_regularization_error: 18.0209
Epoch 941/1000
120/120 [=====] - ETA: 0s - loss: 35.7665 - reconstruction_error: 16.7934 - regularization_error: 18.9731
[2023-12-02 21:00:22.387571]: Reconstructing images for epoch 941 ...
```



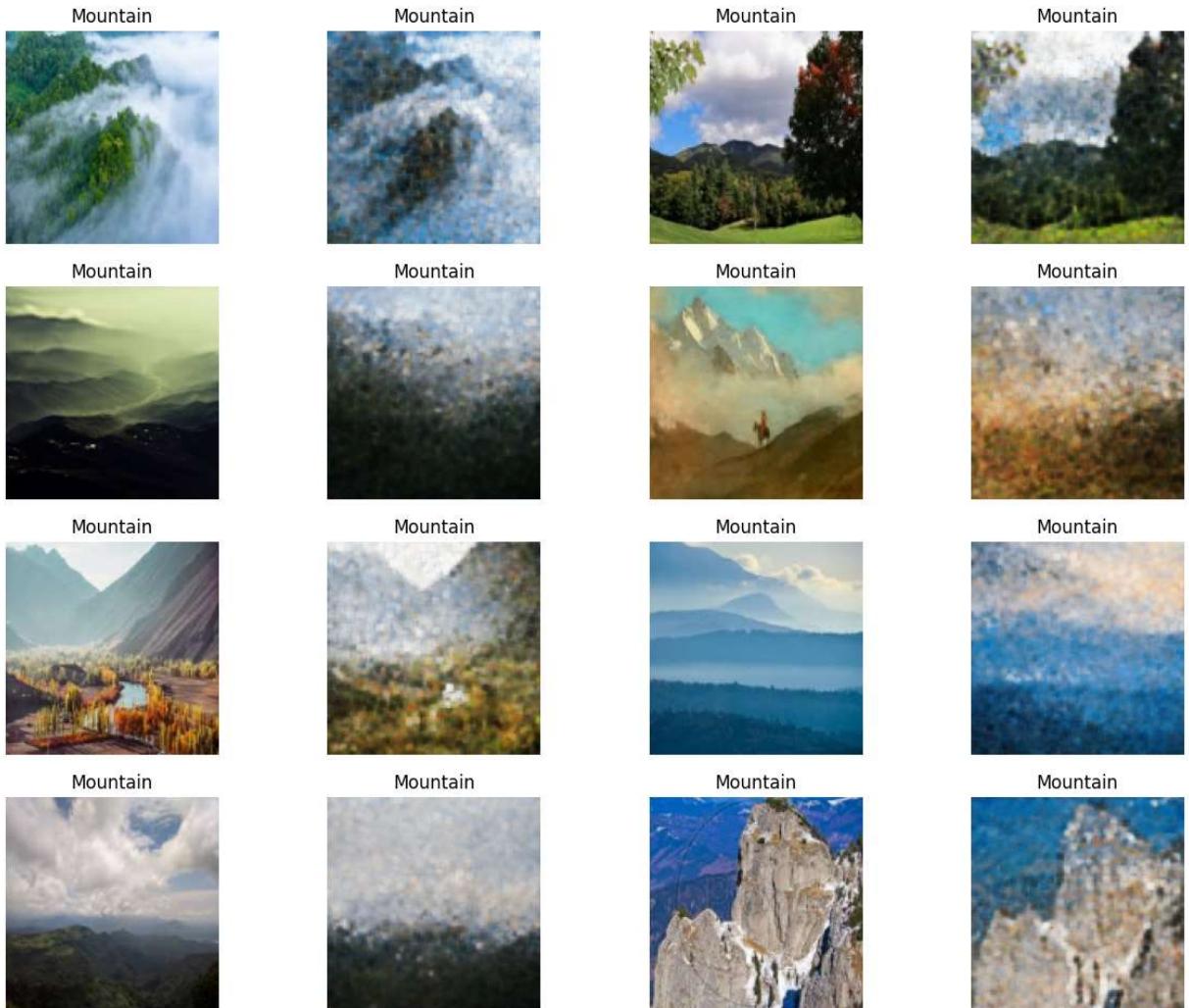
```
120/120 [=====] - 15s 126ms/step - loss: 35.7665 - reconstruction_error: 16.7934 - regularization_error: 18.9731 - val_loss: 71.6204 - val_reconstruction_error: 54.2629 - val_regularization_error: 17.3575
Epoch 942/1000
120/120 [=====] - 16s 134ms/step - loss: 35.7184 - reconstruction_error: 16.7112 - regularization_error: 19.0072 - val_loss: 71.2396 - val_reconstruction_error: 54.4186 - val_regularization_error: 16.8210
Epoch 943/1000
120/120 [=====] - 15s 123ms/step - loss: 35.7180 - reconstruction_error: 16.7009 - regularization_error: 19.0170 - val_loss: 70.5797 - val_reconstruction_error: 53.3382 - val_regularization_error: 17.2415
Epoch 944/1000
120/120 [=====] - 17s 138ms/step - loss: 35.8468 - reconstruction_error: 16.8146 - regularization_error: 19.0322 - val_loss: 70.8628 - val_reconstruction_error: 54.6334 - val_regularization_error: 16.2295
Epoch 945/1000
120/120 [=====] - 16s 134ms/step - loss: 35.4774 - reconstruction_error: 16.6196 - regularization_error: 18.8579 - val_loss: 71.3616 - val_reconstruction_error: 54.5811 - val_regularization_error: 16.7805
Epoch 946/1000
120/120 [=====] - 17s 135ms/step - loss: 35.7234 - reconstruction_error: 16.7426 - regularization_error: 18.9808 - val_loss: 71.9221 - val_reconstruction_error: 54.5041 - val_regularization_error: 17.4180
Epoch 947/1000
120/120 [=====] - 16s 130ms/step - loss: 35.7856 - reconstruction_error: 16.6548 - regularization_error: 19.1307 - val_loss: 72.5724 - val_reconstruction_error: 55.3035 - val_regularization_error: 17.2689
Epoch 948/1000
120/120 [=====] - 18s 149ms/step - loss: 35.7111 - reconstruction_error: 16.6711 - regularization_error: 19.0401 - val_loss: 71.9958 - val_reconstruction_error: 55.3935 - val_regularization_error: 16.6024
Epoch 949/1000
120/120 [=====] - 16s 132ms/step - loss: 35.8111 - reconstruction_error: 16.6953 - regularization_error: 19.1159 - val_loss: 72.0052 - val_reconstruction_error: 54.9391 - val_regularization_error: 17.0661
Epoch 950/1000
120/120 [=====] - 14s 113ms/step - loss: 35.9908 - reconstruction_error: 16.7888 - regularization_error: 19.2019 - val_loss: 71.2112 - val_reconstruction_error: 54.0186 - val_regularization_error: 17.1926
Epoch 951/1000
120/120 [=====] - ETA: 0s - loss: 35.9147 - reconstruction_error: 16.7718 - regularization_error: 19.1429
[2023-12-02 21:03:08.142063]: Reconstructing images for epoch 951 ...
```



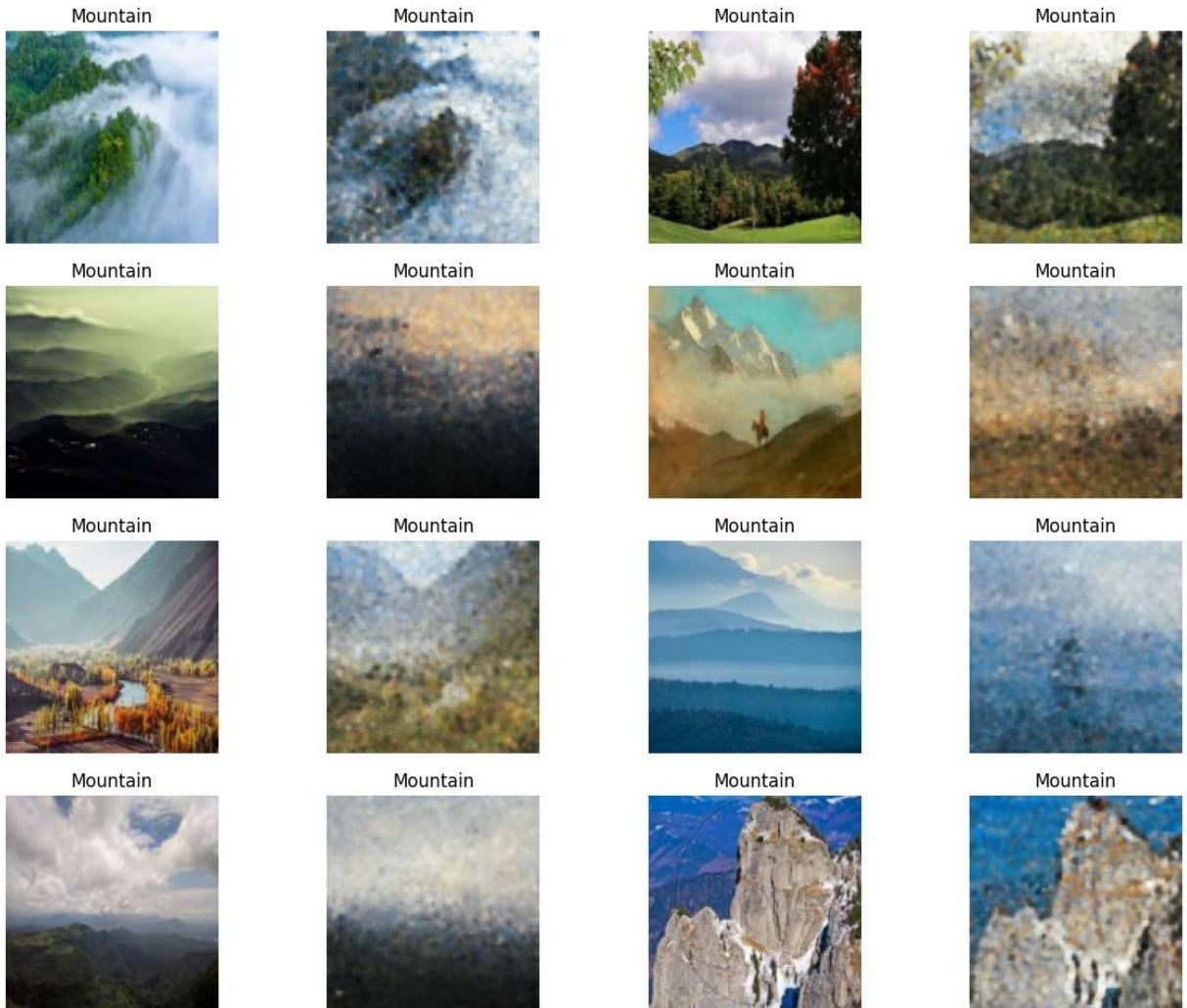
```
120/120 [=====] - 20s 165ms/step - loss: 35.9147 - reconstruction_error: 16.7718 - regularization_error: 19.1429 - val_loss: 71.2019 - val_reconstruction_error: 53.7134 - val_regularization_error: 17.4886
Epoch 952/1000
120/120 [=====] - 17s 134ms/step - loss: 35.7412 - reconstruction_error: 16.6213 - regularization_error: 19.1199 - val_loss: 70.7648 - val_reconstruction_error: 53.1485 - val_regularization_error: 17.6163
Epoch 953/1000
120/120 [=====] - 17s 143ms/step - loss: 35.6510 - reconstruction_error: 16.6971 - regularization_error: 18.9539 - val_loss: 71.3478 - val_reconstruction_error: 53.8145 - val_regularization_error: 17.5333
Epoch 954/1000
120/120 [=====] - 17s 142ms/step - loss: 35.7242 - reconstruction_error: 16.6688 - regularization_error: 19.0554 - val_loss: 73.6991 - val_reconstruction_error: 55.6090 - val_regularization_error: 18.0900
Epoch 955/1000
120/120 [=====] - 15s 124ms/step - loss: 35.5847 - reconstruction_error: 16.5757 - regularization_error: 19.0091 - val_loss: 71.2313 - val_reconstruction_error: 54.7969 - val_regularization_error: 16.4345
Epoch 956/1000
120/120 [=====] - 16s 136ms/step - loss: 35.5866 - reconstruction_error: 16.5923 - regularization_error: 18.9942 - val_loss: 71.5052 - val_reconstruction_error: 54.6670 - val_regularization_error: 16.8382
Epoch 957/1000
120/120 [=====] - 14s 117ms/step - loss: 35.8191 - reconstruction_error: 16.7885 - regularization_error: 19.0305 - val_loss: 71.5523 - val_reconstruction_error: 54.6316 - val_regularization_error: 16.9207
Epoch 958/1000
120/120 [=====] - 16s 136ms/step - loss: 35.6759 - reconstruction_error: 16.7248 - regularization_error: 18.9511 - val_loss: 72.2847 - val_reconstruction_error: 55.1634 - val_regularization_error: 17.1214
Epoch 959/1000
120/120 [=====] - 18s 148ms/step - loss: 35.5920 - reconstruction_error: 16.5462 - regularization_error: 19.0458 - val_loss: 72.0811 - val_reconstruction_error: 55.1091 - val_regularization_error: 16.9721
Epoch 960/1000
120/120 [=====] - 17s 139ms/step - loss: 35.5411 - reconstruction_error: 16.6168 - regularization_error: 18.9243 - val_loss: 71.1163 - val_reconstruction_error: 54.4206 - val_regularization_error: 16.6957
Epoch 961/1000
120/120 [=====] - ETA: 0s - loss: 35.6520 - reconstruction_error: 16.6462 - regularization_error: 19.0058
[2023-12-02 21:05:58.204597]: Reconstructing images for epoch 961 ...
```



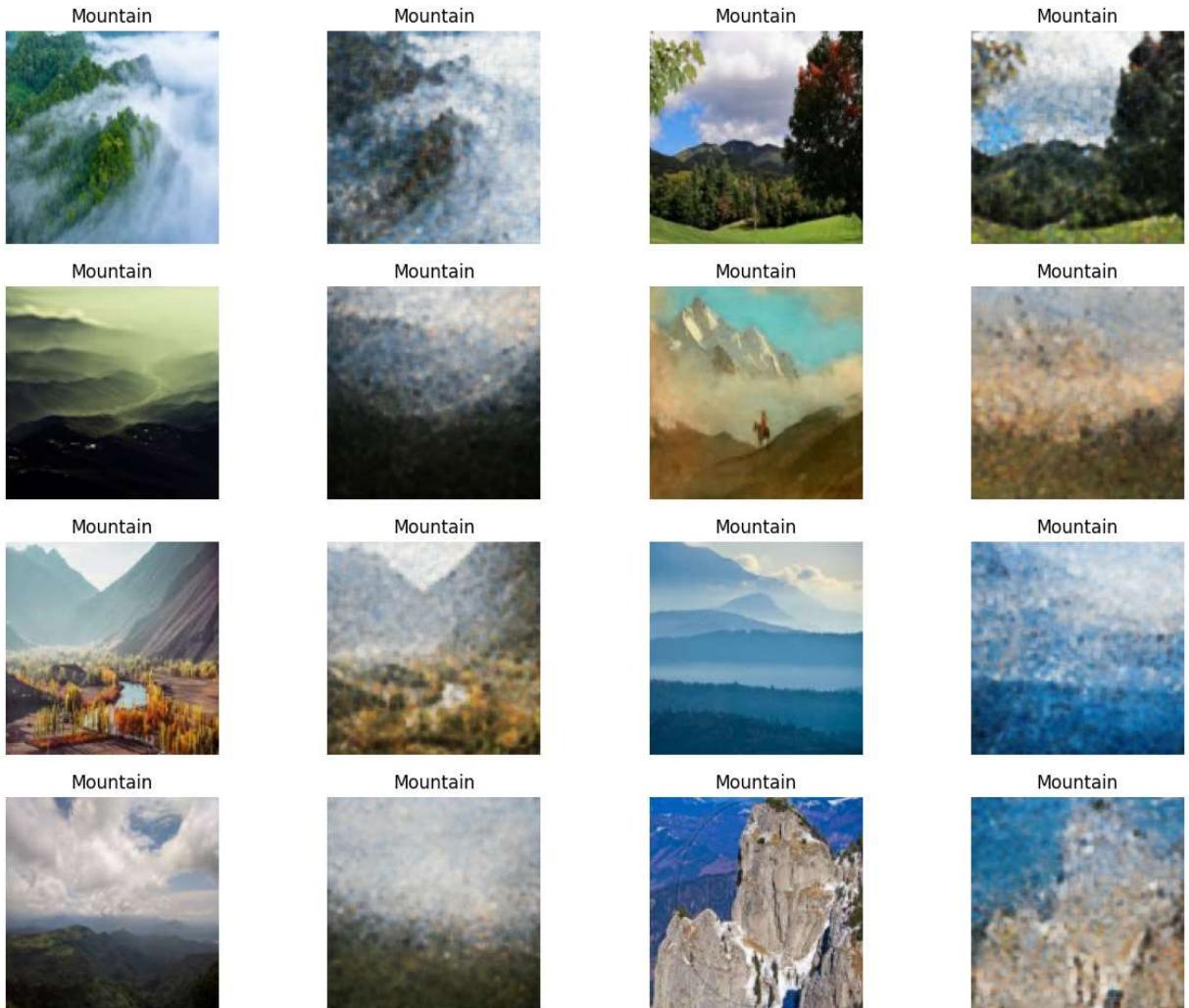
```
120/120 [=====] - 21s 172ms/step - loss: 35.6520 - reconstruction_error: 16.6462 - regularization_error: 19.0058 - val_loss: 71.2897 - val_reconstruction_error: 54.0370 - val_regularization_error: 17.2527
Epoch 962/1000
120/120 [=====] - 17s 141ms/step - loss: 35.6516 - reconstruction_error: 16.5854 - regularization_error: 19.0662 - val_loss: 71.2537 - val_reconstruction_error: 53.4795 - val_regularization_error: 17.7741
Epoch 963/1000
120/120 [=====] - 15s 120ms/step - loss: 35.5460 - reconstruction_error: 16.6100 - regularization_error: 18.9360 - val_loss: 71.8724 - val_reconstruction_error: 54.8400 - val_regularization_error: 17.0324
Epoch 964/1000
120/120 [=====] - 17s 138ms/step - loss: 35.6431 - reconstruction_error: 16.6255 - regularization_error: 19.0176 - val_loss: 71.2907 - val_reconstruction_error: 53.8428 - val_regularization_error: 17.4480
Epoch 965/1000
120/120 [=====] - 15s 124ms/step - loss: 35.7058 - reconstruction_error: 16.6622 - regularization_error: 19.0436 - val_loss: 71.6759 - val_reconstruction_error: 54.4135 - val_regularization_error: 17.2624
Epoch 966/1000
120/120 [=====] - 14s 111ms/step - loss: 35.6299 - reconstruction_error: 16.5318 - regularization_error: 19.0981 - val_loss: 71.5148 - val_reconstruction_error: 54.6357 - val_regularization_error: 16.8791
Epoch 967/1000
120/120 [=====] - 15s 120ms/step - loss: 35.4584 - reconstruction_error: 16.6642 - regularization_error: 18.7942 - val_loss: 70.6151 - val_reconstruction_error: 54.3001 - val_regularization_error: 16.3150
Epoch 968/1000
120/120 [=====] - 15s 127ms/step - loss: 35.7196 - reconstruction_error: 16.6107 - regularization_error: 19.1089 - val_loss: 70.6454 - val_reconstruction_error: 54.1351 - val_regularization_error: 16.5103
Epoch 969/1000
120/120 [=====] - 14s 115ms/step - loss: 35.8445 - reconstruction_error: 16.7497 - regularization_error: 19.0948 - val_loss: 71.1636 - val_reconstruction_error: 54.7410 - val_regularization_error: 16.4226
Epoch 970/1000
120/120 [=====] - 19s 158ms/step - loss: 35.5379 - reconstruction_error: 16.5787 - regularization_error: 18.9593 - val_loss: 71.4266 - val_reconstruction_error: 54.7313 - val_regularization_error: 16.6953
Epoch 971/1000
119/120 [=====.>.] - ETA: 0s - loss: 35.4488 - reconstruction_error: 16.4808 - regularization_error: 18.9680
[2023-12-02 21:08:39.074378]: Reconstructing images for epoch 971 ...
```



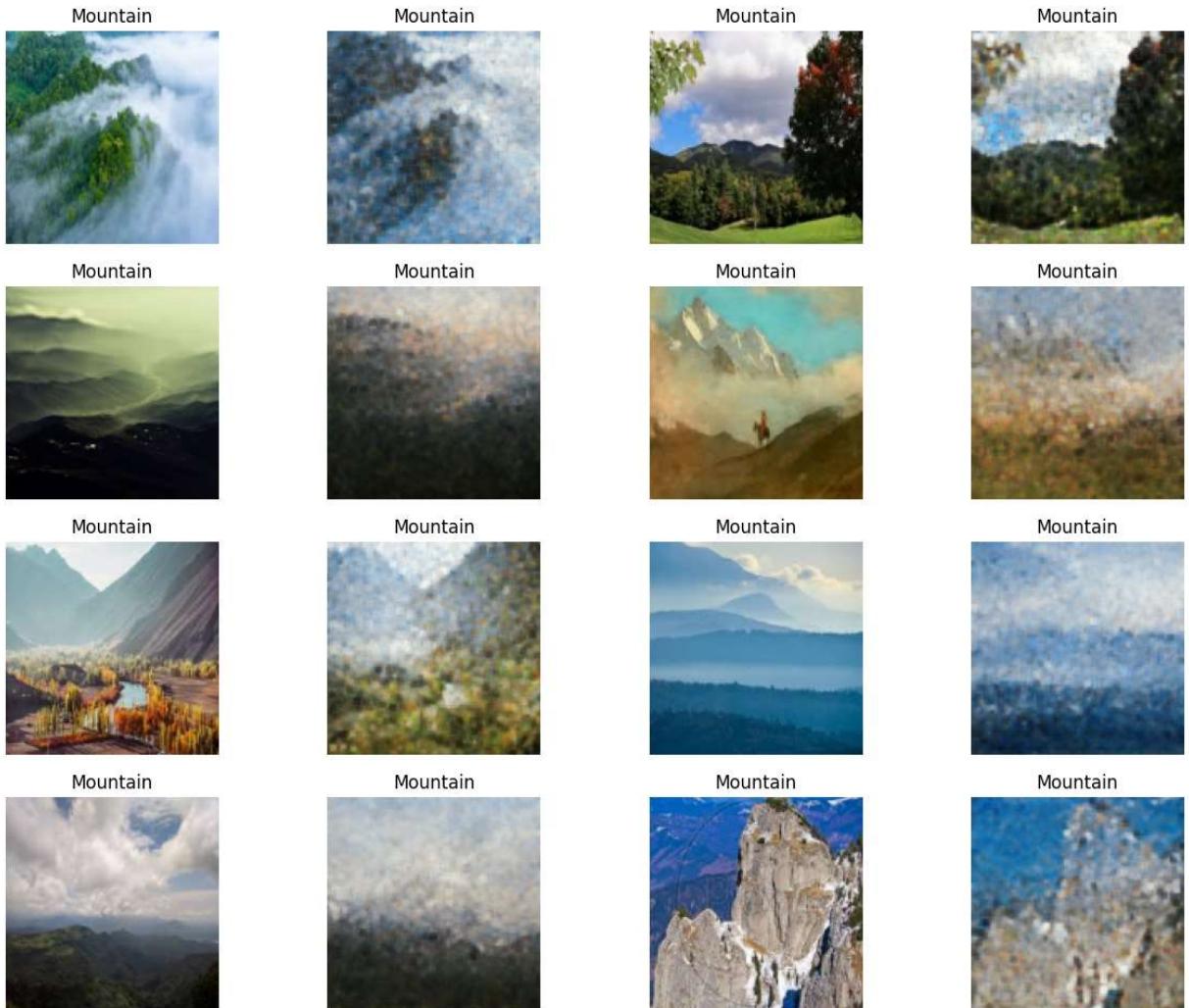
```
120/120 [=====] - 19s 159ms/step - loss: 35.4531 - reconstruction_error: 16.4772 - regularization_error: 18.9759 - val_loss: 70.9108 - val_reconstruction_error: 54.1051 - val_regularization_error: 16.8057
Epoch 972/1000
120/120 [=====] - 18s 147ms/step - loss: 35.7178 - reconstruction_error: 16.6091 - regularization_error: 19.1087 - val_loss: 71.9005 - val_reconstruction_error: 55.5364 - val_regularization_error: 16.3640
Epoch 973/1000
120/120 [=====] - 17s 144ms/step - loss: 35.8863 - reconstruction_error: 16.7796 - regularization_error: 19.1067 - val_loss: 71.6199 - val_reconstruction_error: 55.6287 - val_regularization_error: 15.9913
Epoch 974/1000
120/120 [=====] - 17s 138ms/step - loss: 35.5802 - reconstruction_error: 16.5630 - regularization_error: 19.0172 - val_loss: 70.8328 - val_reconstruction_error: 53.7929 - val_regularization_error: 17.0399
Epoch 975/1000
120/120 [=====] - 13s 103ms/step - loss: 35.6164 - reconstruction_error: 16.6126 - regularization_error: 19.0037 - val_loss: 71.2605 - val_reconstruction_error: 54.2780 - val_regularization_error: 16.9824
Epoch 976/1000
120/120 [=====] - 15s 128ms/step - loss: 35.5502 - reconstruction_error: 16.5987 - regularization_error: 18.9515 - val_loss: 70.6462 - val_reconstruction_error: 53.7937 - val_regularization_error: 16.8525
Epoch 977/1000
120/120 [=====] - 17s 142ms/step - loss: 35.4725 - reconstruction_error: 16.5250 - regularization_error: 18.9475 - val_loss: 70.6567 - val_reconstruction_error: 53.5541 - val_regularization_error: 17.1026
Epoch 978/1000
120/120 [=====] - 14s 119ms/step - loss: 35.4922 - reconstruction_error: 16.6239 - regularization_error: 18.8683 - val_loss: 73.2416 - val_reconstruction_error: 56.1944 - val_regularization_error: 17.0471
Epoch 979/1000
120/120 [=====] - 15s 129ms/step - loss: 35.5351 - reconstruction_error: 16.5618 - regularization_error: 18.9733 - val_loss: 72.0545 - val_reconstruction_error: 55.4073 - val_regularization_error: 16.6472
Epoch 980/1000
120/120 [=====] - 18s 147ms/step - loss: 35.4593 - reconstruction_error: 16.4988 - regularization_error: 18.9606 - val_loss: 71.0877 - val_reconstruction_error: 54.7101 - val_regularization_error: 16.3775
Epoch 981/1000
120/120 [=====] - ETA: 0s - loss: 35.5603 - reconstruction_error: 16.6499 - regularization_error: 18.9105
[2023-12-02 21:11:23.990876]: Reconstructing images for epoch 981 ...
```



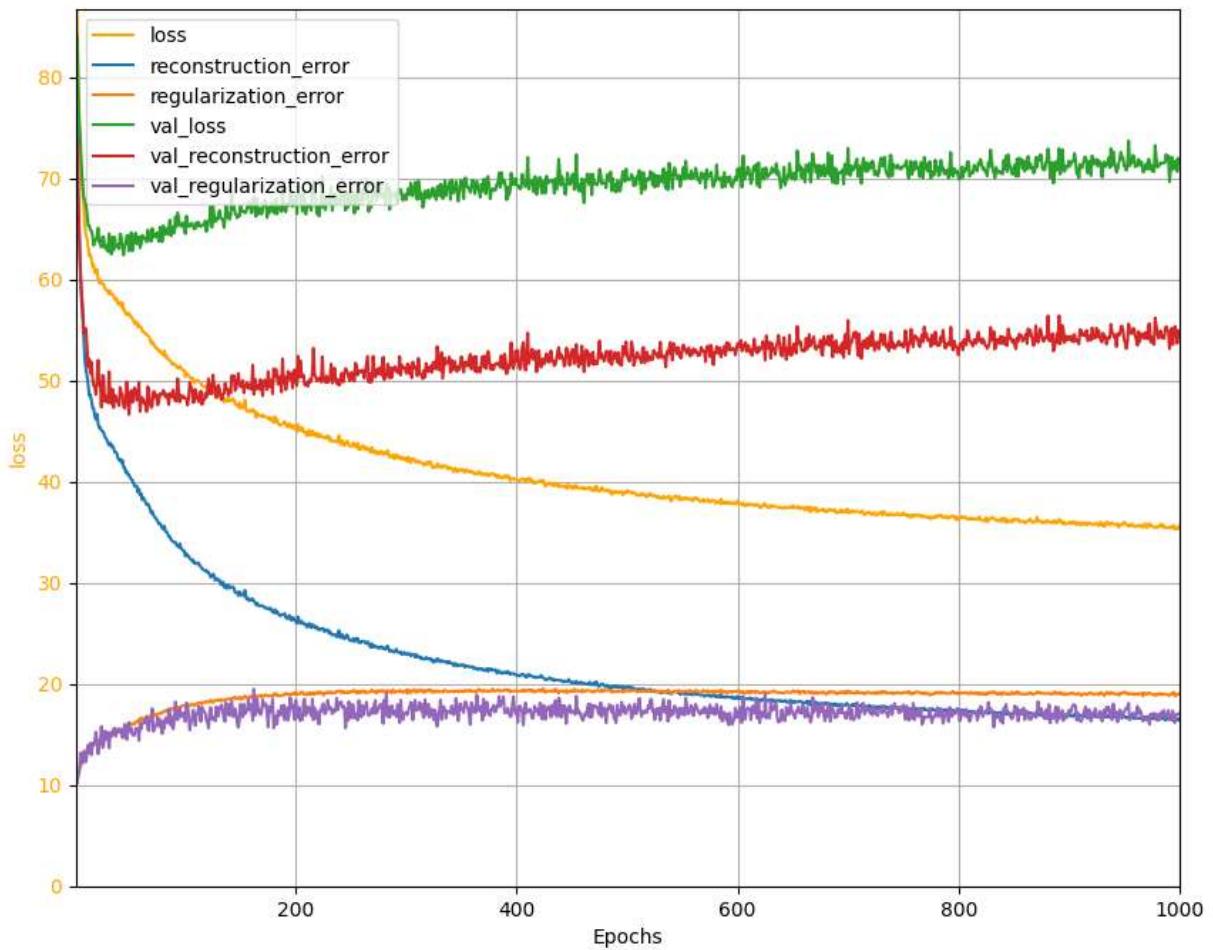
```
120/120 [=====] - 18s 148ms/step - loss: 35.5603 - reconstruction_error: 16.6499 - regularization_error: 18.9105 - val_loss: 71.2110 - val_reconstruction_error: 54.1819 - val_regularization_error: 17.0291
Epoch 982/1000
120/120 [=====] - 15s 123ms/step - loss: 35.5627 - reconstruction_error: 16.4756 - regularization_error: 19.0870 - val_loss: 71.2523 - val_reconstruction_error: 54.7739 - val_regularization_error: 16.4784
Epoch 983/1000
120/120 [=====] - 14s 117ms/step - loss: 35.8097 - reconstruction_error: 16.8057 - regularization_error: 19.0040 - val_loss: 71.5543 - val_reconstruction_error: 54.9143 - val_regularization_error: 16.6400
Epoch 984/1000
120/120 [=====] - 19s 154ms/step - loss: 35.4930 - reconstruction_error: 16.5899 - regularization_error: 18.9031 - val_loss: 71.4667 - val_reconstruction_error: 54.2112 - val_regularization_error: 17.2555
Epoch 985/1000
120/120 [=====] - 17s 141ms/step - loss: 35.7377 - reconstruction_error: 16.7210 - regularization_error: 19.0166 - val_loss: 71.4796 - val_reconstruction_error: 54.3912 - val_regularization_error: 17.0883
Epoch 986/1000
120/120 [=====] - 17s 143ms/step - loss: 35.5897 - reconstruction_error: 16.6156 - regularization_error: 18.9741 - val_loss: 71.5103 - val_reconstruction_error: 54.1381 - val_regularization_error: 17.3722
Epoch 987/1000
120/120 [=====] - 17s 137ms/step - loss: 35.4130 - reconstruction_error: 16.3997 - regularization_error: 19.0133 - val_loss: 71.5602 - val_reconstruction_error: 54.8988 - val_regularization_error: 16.6613
Epoch 988/1000
120/120 [=====] - 17s 138ms/step - loss: 35.4747 - reconstruction_error: 16.5015 - regularization_error: 18.9733 - val_loss: 72.3493 - val_reconstruction_error: 55.3499 - val_regularization_error: 16.9994
Epoch 989/1000
120/120 [=====] - 16s 130ms/step - loss: 35.4342 - reconstruction_error: 16.4917 - regularization_error: 18.9425 - val_loss: 71.8395 - val_reconstruction_error: 55.0059 - val_regularization_error: 16.8336
Epoch 990/1000
120/120 [=====] - 17s 137ms/step - loss: 35.4895 - reconstruction_error: 16.5804 - regularization_error: 18.9091 - val_loss: 72.2016 - val_reconstruction_error: 54.8174 - val_regularization_error: 17.3841
Epoch 991/1000
120/120 [=====] - ETA: 0s - loss: 35.4432 - reconstruction_error: 16.6015 - regularization_error: 18.8417
[2023-12-02 21:14:12.639067]: Reconstructing images for epoch 991 ...
```



```
120/120 [=====] - 19s 153ms/step - loss: 35.4432 - reconstruction_error: 16.6015 - regularization_error: 18.8417 - val_loss: 69.6435 - val_reconstruction_error: 53.1353 - val_regularization_error: 16.5082
Epoch 992/1000
120/120 [=====] - 16s 135ms/step - loss: 35.3846 - reconstruction_error: 16.4503 - regularization_error: 18.9343 - val_loss: 70.9518 - val_reconstruction_error: 54.5151 - val_regularization_error: 16.4368
Epoch 993/1000
120/120 [=====] - 15s 125ms/step - loss: 35.5897 - reconstruction_error: 16.5173 - regularization_error: 19.0724 - val_loss: 72.1098 - val_reconstruction_error: 55.1802 - val_regularization_error: 16.9296
Epoch 994/1000
120/120 [=====] - 16s 129ms/step - loss: 35.4256 - reconstruction_error: 16.4496 - regularization_error: 18.9760 - val_loss: 70.8591 - val_reconstruction_error: 53.5320 - val_regularization_error: 17.3271
Epoch 995/1000
120/120 [=====] - 18s 151ms/step - loss: 35.6585 - reconstruction_error: 16.4716 - regularization_error: 19.1870 - val_loss: 70.9930 - val_reconstruction_error: 54.7329 - val_regularization_error: 16.2601
Epoch 996/1000
120/120 [=====] - 15s 126ms/step - loss: 35.2742 - reconstruction_error: 16.4859 - regularization_error: 18.7883 - val_loss: 71.5206 - val_reconstruction_error: 55.3566 - val_regularization_error: 16.1640
Epoch 997/1000
120/120 [=====] - 17s 141ms/step - loss: 35.4206 - reconstruction_error: 16.4891 - regularization_error: 18.9315 - val_loss: 71.7688 - val_reconstruction_error: 54.8015 - val_regularization_error: 16.9673
Epoch 998/1000
120/120 [=====] - 18s 150ms/step - loss: 35.4384 - reconstruction_error: 16.4841 - regularization_error: 18.9543 - val_loss: 70.6502 - val_reconstruction_error: 53.6690 - val_regularization_error: 16.9812
Epoch 999/1000
120/120 [=====] - 16s 129ms/step - loss: 35.3109 - reconstruction_error: 16.3859 - regularization_error: 18.9249 - val_loss: 71.9806 - val_reconstruction_error: 54.9468 - val_regularization_error: 17.0337
Epoch 1000/1000
120/120 [=====] - ETA: 0s - loss: 35.6488 - reconstruction_error: 16.5965 - regularization_error: 19.0523
[2023-12-02 21:16:42.747639]: Reconstructing images for epoch 1000 ...
```



120/120 [=====] - 17s 139ms/step - loss: 35.6488 - reconstruction\_error: 16.5965 - regularization\_error: 19.0523 - val\_loss: 71.5197 - val\_reconstruction\_error: 54.4150 - val\_regularization\_error: 17.1046



## Generation

