

```
PS C:\Users\luizg\OneDrive\Documentos\RNE\genetic-alg-with-neural-network-main> python teste_ag.py
```

```
Número total de gerações: 10000
```

```
Tempo de execução: 15.27 segundos.
```

```
MSE: 0.03871339075697911
```

```
Diferenças:
```

```
[[0.3768 0.2186 0.3114 0.0142 0.2546]  
 [0.1886 0.0662 0.318  0.0788 0.3043]  
 [0.2083 0.0099 0.3478 0.1655 0.3214]  
 [0.2552 0.1003 0.1616 0.0959 0.1058]  
 [0.0423 0.1482 0.2044 0.188  0.1449]  
 [0.0299 0.1955 0.2075 0.2075 0.2325]  
 [0.254  0.2242 0.1472 0.078  0.0562]  
 [0.0563 0.0132 0.1027 0.1464 0.2001]  
 [0.0036 0.2188 0.0033 0.1681 0.2096]  
 [0.0204 0.1214 0.0593 0.07  0.1535]  
 [0.006  0.1747 0.0424 0.0378 0.0972]  
 [0.0484 0.2766 0.0698 0.0729 0.0016]  
 [0.1405 0.0109 0.0252 0.4937 0.3791]  
 [0.2028 0.1849 0.3085 0.3073 0.1462]  
 [0.2299 0.3323 0.4059 0.2048 0.0957]]
```

```
Fim do algoritmo genético.
```

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```
PS C:\Users\luizg\OneDrive\Documentos\RNE\genetic-alg-with-neural-network-main> python teste_nn.py
```

```
Número total de gerações: 10000
```

```
Tempo de execução: 0.219 segundos.
```

```
MSE: 0.0045108147831765715
```

```
Diferenças:
```

```
[[0.0425 0.0289 0.0712 0.1428 0.0947]
 [0.1087 0.0639 0.0356 0.0948 0.013 ]
 [0.0094 0.0075 0.0119 0.0263 0.0626]
 [0.03    0.0073 0.0846 0.1291 0.0067]
 [0.0629 0.0466 0.038  0.0585 0.043 ]
 [0.0496 0.0472 0.0357 0.0328 0.0133]
 [0.0127 0.0111 0.03    0.0095 0.0709]
 [0.0499 0.0204 0.0586 0.0155 0.1361]
 [0.0026 0.0047 0.0821 0.0595 0.0199]
 [0.0495 0.0367 0.0205 0.0227 0.0606]
 [0.0678 0.0406 0.1337 0.0152 0.0219]
 [0.0163 0.0296 0.057  0.0226 0.0656]
 [0.0841 0.0276 0.0183 0.1397 0.1156]
 [0.0979 0.0227 0.1049 0.1292 0.0317]
 [0.13    0.0981 0.1577 0.0887 0.0385]]
```

```
Fim da rede neural.
```

```
PS C:\Users\luizg\OneDrive\Documentos\RNE\genetic-alg-with-neural-network-main> █
```