Capa de entradas = 5 Capa de salida = 40 Func Act Salida = sigmoid Peridida decimal cientifica Experimento **ETA Optimizador** Capas Neuronas x capas **Func Activ Epocas** Batch size Func Perdida 0.01 Adams 56 TANH 100 MSE 0.10105 1.01E-01 2 0.001 Adams 1 56 **TANH** 100 0 MSE 0.12830 1.28E-01 3 0.0001 56 TANH 100 0 **MSE** 1.80E-01 Adams 1 0.18009 4 0.0001 56 TANH MSF 1.29F-01 Adams 1.000 0.12900 5 0.0001 1 56 TANH 10,000 0 **MSE** 0.08337 8.34E-02 Adams 0 MSF 0.07534 6 0.0001 Adams 1 64 TANH 10.000 7.53F-02 7 0.0001 2 TANH 10.000 0 MSE 0.04179 4.18E-02 Adams [64,64] 8 2 0 MSE 0.0001 [64, 128] **TANH** 10,000 0.04268 4.27E-02 Adams 9 0.0001 2 [64, 128] **TANH** 10.000 10 MSE 0.00818 8.18E-03 Adams 10 0.0001 2 **TANH** 100.000 10 MSE 0.00291 2.91E-03 Adams [64, 128] 100,000 0.0001 2 0 **MSE** 11 Adams [64, 128] TANH 0.00281 2.81E-03 12 0.0001 2 TANH 50,000 0 MSE 0.00280 2.80E-03 Adams [64,128] 13 0 0.0001 Adams 128 TANH 50.000 MSE 0.00956 9.56E-03 14 0.0001 Adams 1 128 TANH 50,000 10 MSE 0.00349 3.49E-03 15 0.0001 Adams 2 [64, 128] TANH 50.000 10 MSE 0.00116 1.16E-03 16 0.0001 Adams 2 [64, 128] TANH 100.000 10 MSE 0.001160 1.16E-03

TANH

TANH

TANH

TANH

TANH

TANH

TANH

TANH

TANH

100,000

500.000

500.000

10,000

10.000

100.000

1,000,000

100.000

100.000

0

0

0

0

10

10

0

0

10

MSE

MSE

MSE

MSE

MSE

MSE

MSE

MSE

MSE

0.000580

0.0000000120

0.00000000230

0.00548

0.00474

0.00465

0.00465

0.01279

0.01279

5.80E-04

1.20E-09

2.30E-09

5.48E-03

4.74E-03

4.65E-03

4.65E-03

1.28E-02

1.28E-02

17

18

19

20

21

22

23

24

25

0.0001

0.0001

0.0001

0.001

0.001

0.0001

0.0001

0.0001

0.0001

Adams

Adams

Adams

Adams

Adams

Adams

Adams

Adams

Adams

3

3

2

1

1

1

1

1

1

[64, 128, 256]

[64, 128, 256]

[64,128]

128

128

128

128

1024

1024

Capa de entradas	s = 5									
Capa de salida =	40									
Func Act Salida =	sigmoid									
Total = 4										
Experimento	ETA	Optimizador	Capas	leuronas x capa:	Func Activ	Epocas	Batch size	Func Perdida	Perdida	
1	0.01	Adams	1	64	TANH	100	0	MSE	0.00403	4.03E-03
2	0.001	Adams	1	64	TANH	100	0	MSE	0.04526	4.53E-02
3	0.001	Adams	1	64	TANH	1,000	0	MSE	0.00079	7.90E-04
Total = 10										
Experimento	ETA	Optimizador	Capas	leuronas x capa:	Func Activ	Epocas	Batch size	Func Perdida	Perdida	
	ETA 0.01	Optimizador Adams	Capas 1	64	TANH	Epocas 100	Batch size	MSE	Perdida 0.03711	3.71E-02
Experimento 1 2	0.01 0.001		-	64 64	TANH TANH	100 100	0	MSE MSE	0.03711 0.09711	9.71E-02
Experimento 1	0.01	Adams	1	64	TANH	100	0	MSE	0.03711	-
Experimento 1 2	0.01 0.001	Adams Adams	1 1	64 64	TANH TANH	100 100	0	MSE MSE	0.03711 0.09711	9.71E-02
Experimento 1 2	0.01 0.001	Adams Adams	1 1	64 64	TANH TANH	100 100	0	MSE MSE	0.03711 0.09711	9.71E-02
Experimento 1 2	0.01 0.001	Adams Adams	1 1	64 64	TANH TANH	100 100	0	MSE MSE	0.03711 0.09711	9.71E-02
Experimento 1 2 3	0.01 0.001	Adams Adams	1 1	64 64	TANH TANH	100 100	0	MSE MSE	0.03711 0.09711	9.71E-02
Experimento 1 2 3 Total = 25	0.01 0.001 0.001	Adams Adams Adams	1 1 1	64 64 64	TANH TANH TANH	100 100 1,000	0 0 0	MSE MSE MSE	0.03711 0.09711 0.00015	9.71E-02
Experimento 1 2 3 Total = 25 Experimento	0.01 0.001 0.001	Adams Adams Adams Optimizador	1 1 1 Capas	64 64 64 leuronas x capa:	TANH TANH TANH Func Activ	100 100 1,000	0 0 0	MSE MSE MSE Func Perdida	0.03711 0.09711 0.00015	9.71E-02 1.50E-04
Experimento	0.01 0.001 0.001	Adams Adams Adams Optimizador Adams	1 1 1 Capas	64 64 64 leuronas x capa: 64	TANH TANH TANH Func Activ TANH	100 100 1,000 Epocas	0 0 0 0 Batch size	MSE MSE MSE Func Perdida MSE	0.03711 0.09711 0.00015 Perdida 0.08817	9.71E-02 1.50E-04 8.82E-02
Experimento	0.01 0.001 0.001 ETA 0.01 0.001	Adams Adams Adams Adams Optimizador Adams Adams	1 1 1 1 Capas 1	64 64 64 64 leuronas x capa : 64 64	TANH TANH TANH Func Activ TANH TANH	100 100 1,000 Epocas 100 100	0 0 0 0 Batch size 0	MSE MSE MSE Func Perdida MSE MSE	0.03711 0.09711 0.00015 Perdida 0.08817 0.12850	9.71E-02 1.50E-04 8.82E-02 1.29E-01
Experimento	0.01 0.001 0.001 0.001 ETA 0.01 0.001	Adams Adams Adams Optimizador Adams Adams Adams Adams	1 1 1 1 Capas 1 1	64 64 64 64 64 64 64	TANH TANH TANH Func Activ TANH TANH TANH	100 100 1,000 Epocas 100 100 1,000	0 0 0 0 Batch size 0 0	MSE MSE MSE Func Perdida MSE MSE MSE MSE	0.03711 0.09711 0.00015 Perdida 0.08817 0.12850 0.04807	9.71E-02 1.50E-04 8.82E-02 1.29E-01 4.81E-02
Experimento	0.01 0.001 0.001 ETA 0.01 0.001	Adams Adams Adams Adams Optimizador Adams Adams	1 1 1 1 Capas 1	64 64 64 64 leuronas x capa : 64 64	TANH TANH TANH Func Activ TANH TANH	100 100 1,000 Epocas 100 100	0 0 0 0 Batch size 0	MSE MSE MSE Func Perdida MSE MSE	0.03711 0.09711 0.00015 Perdida 0.08817 0.12850	9.71E-02 1.50E-04 8.82E-02 1.29E-01