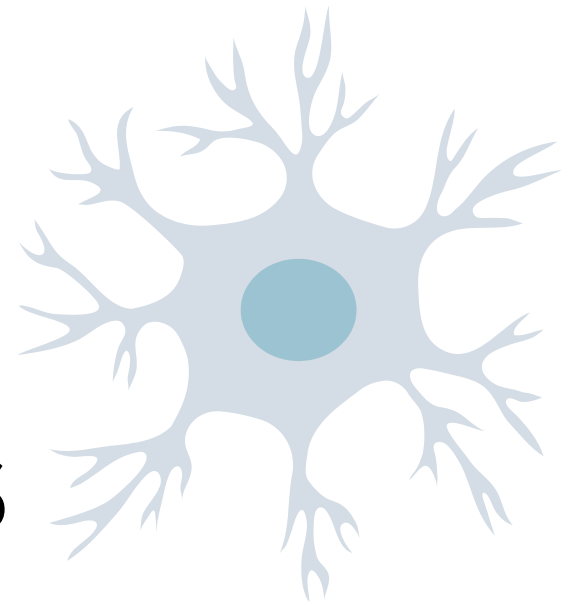


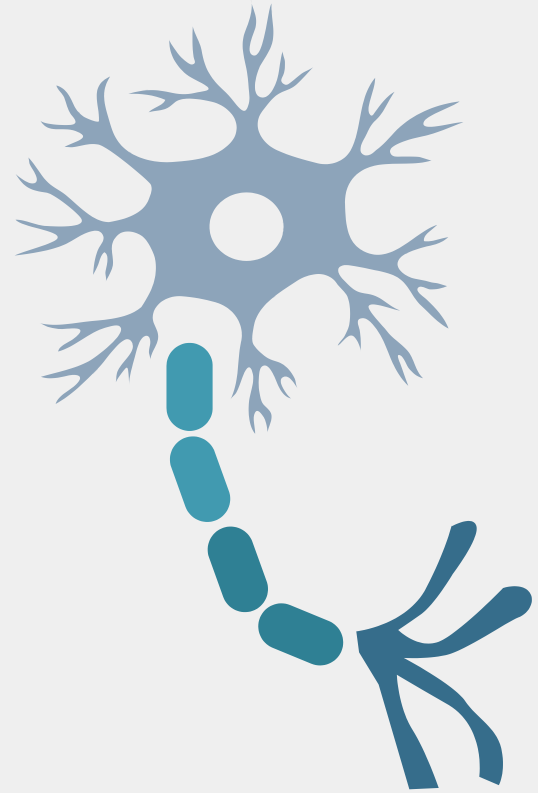


Perceptrones



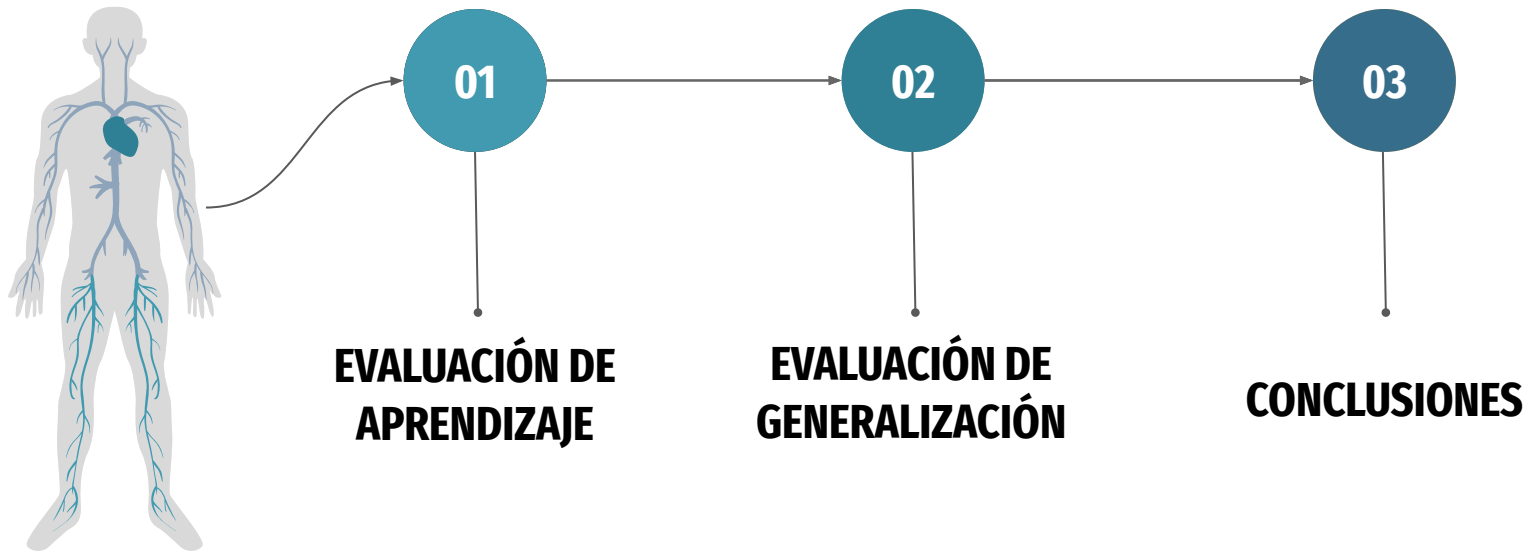
Baron, Maria Mercedes
Mannelli, Lucciano Elia
Ortu, Agustin Sol
Rossi, Victoria

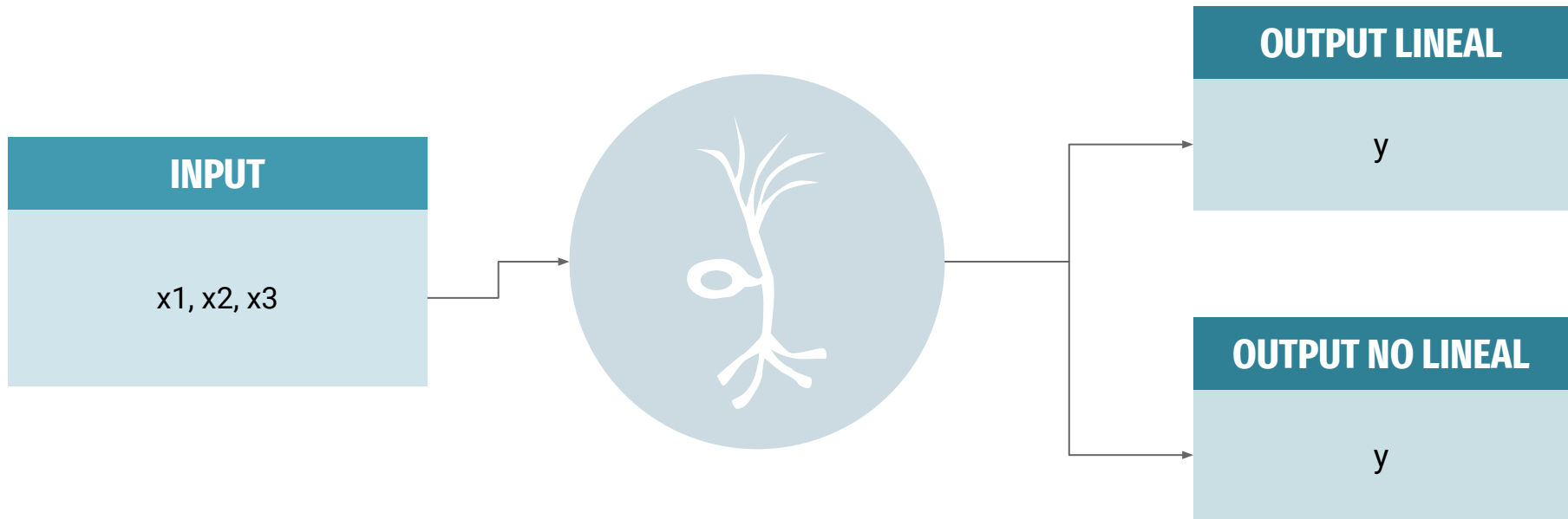
EJERCICIO 2



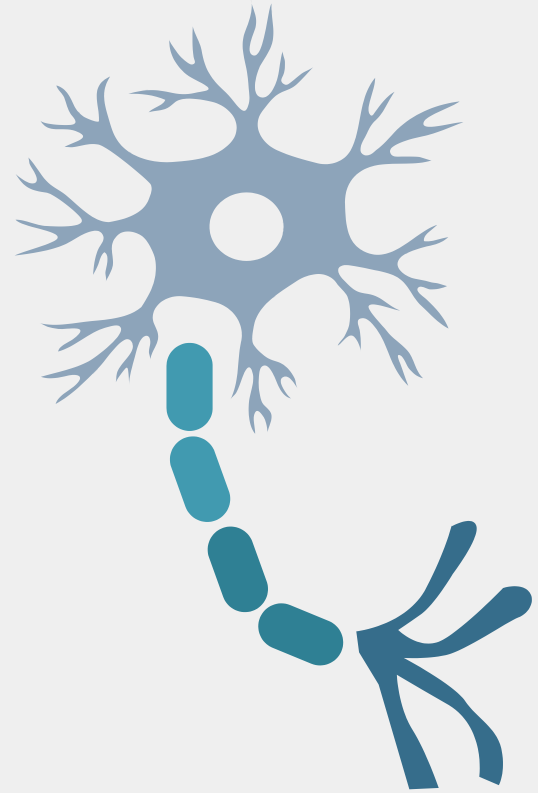
EJERCICIO 2 - Perceptrón Simple Lineal y No Lineal

CUERPO DEL PROBLEMA



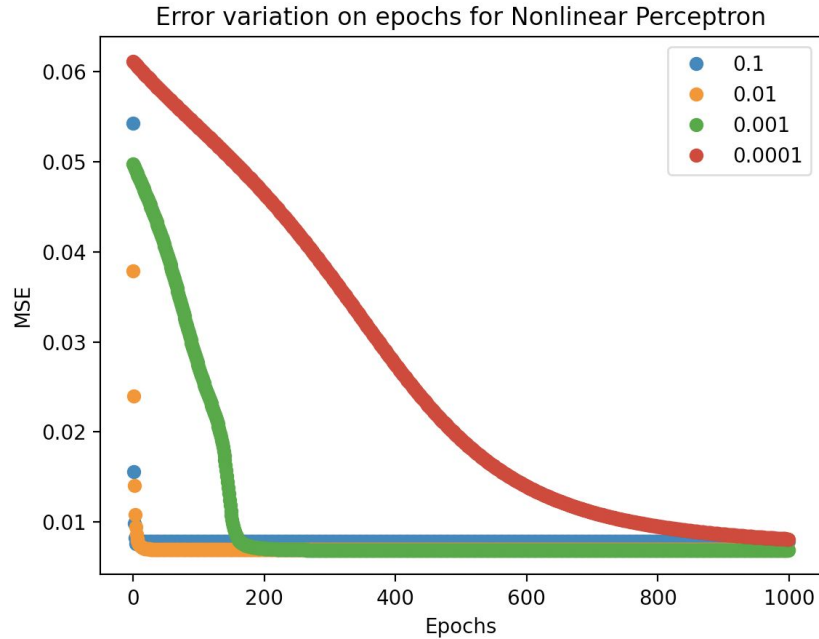


ANÁLISIS DE LEARNING RATE

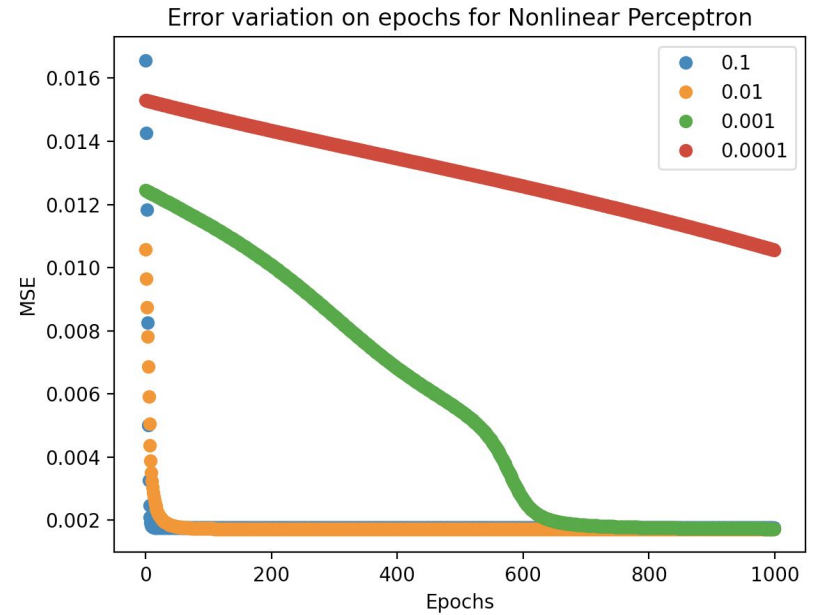


MSE vs Epochs for Different learning rates

"beta": 0.8,
"theta": "tanh"

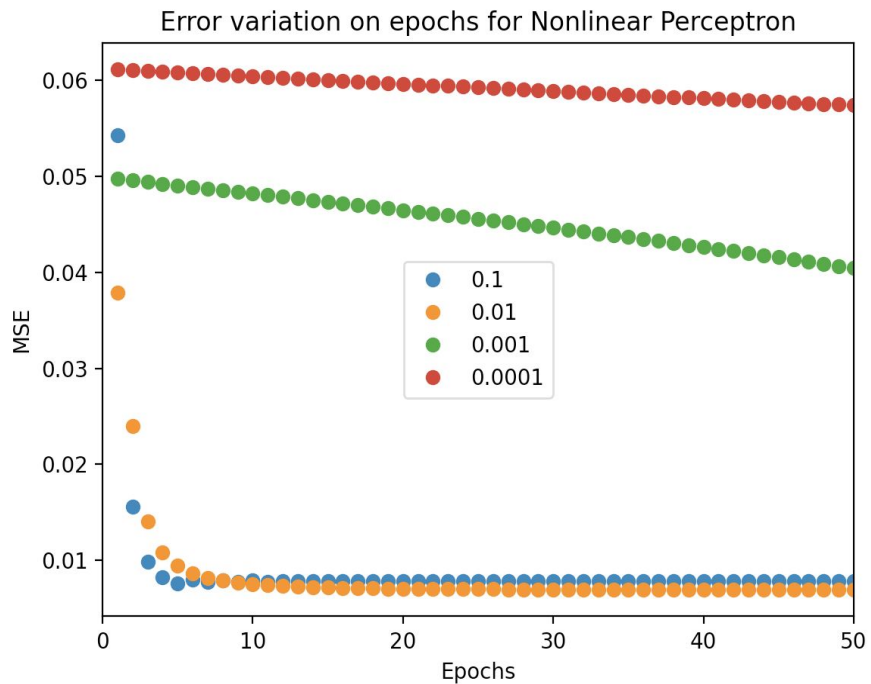


"beta": 0.8,
"theta": "sig"

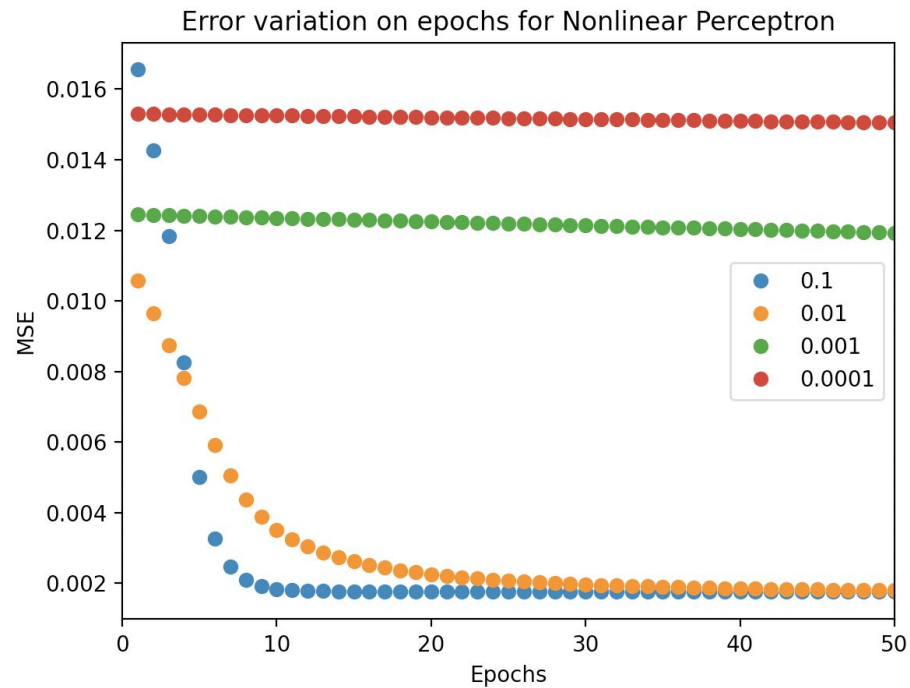


ZOOM - No Lineal

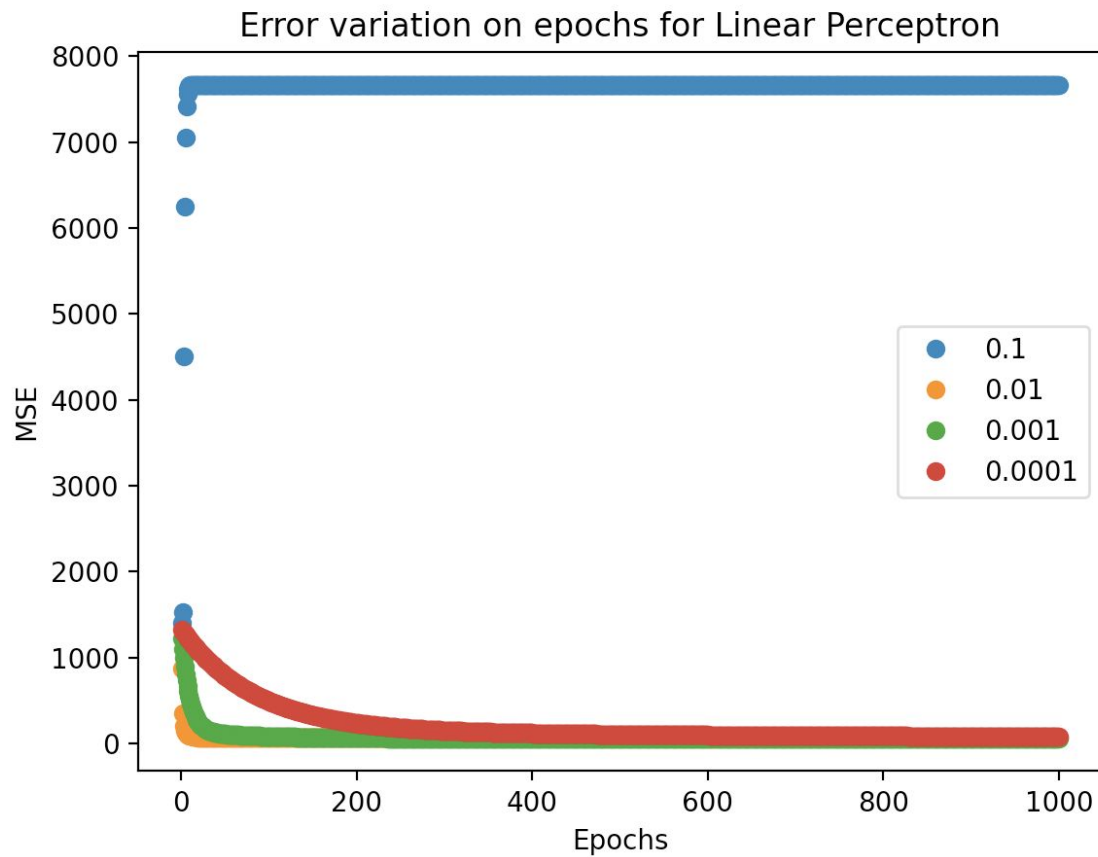
"beta": 0.8,
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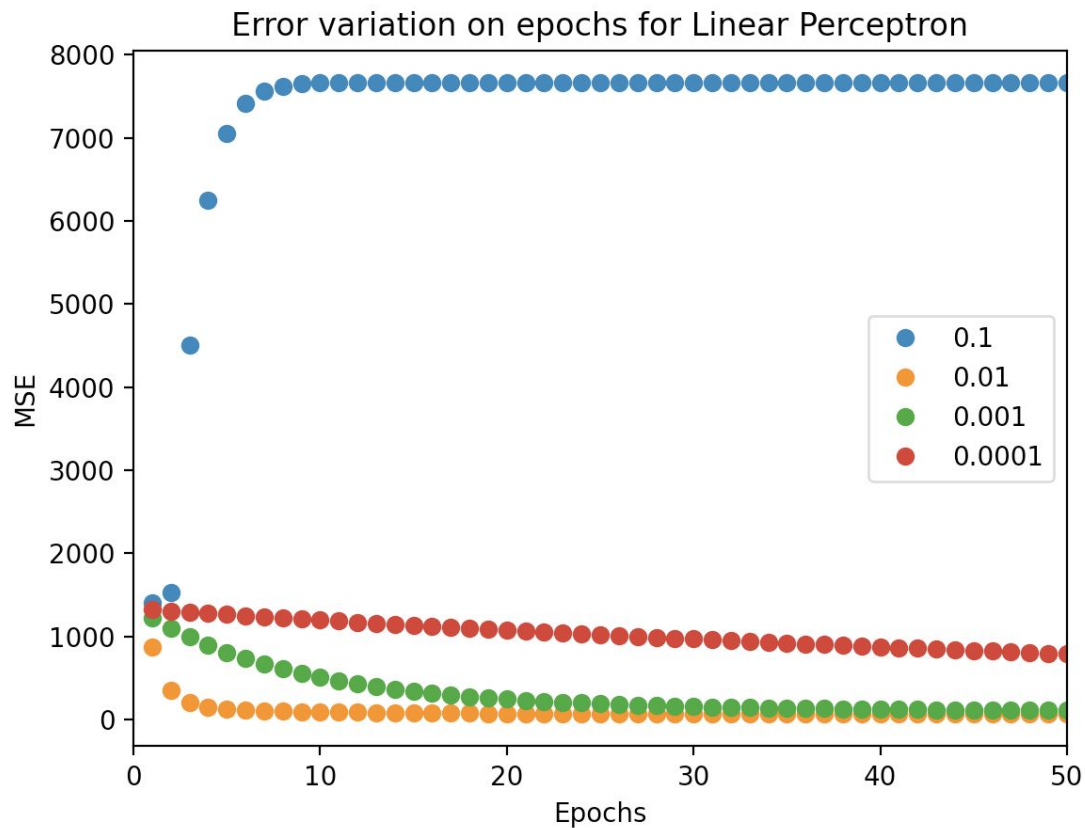
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MSE vs Learning Rates

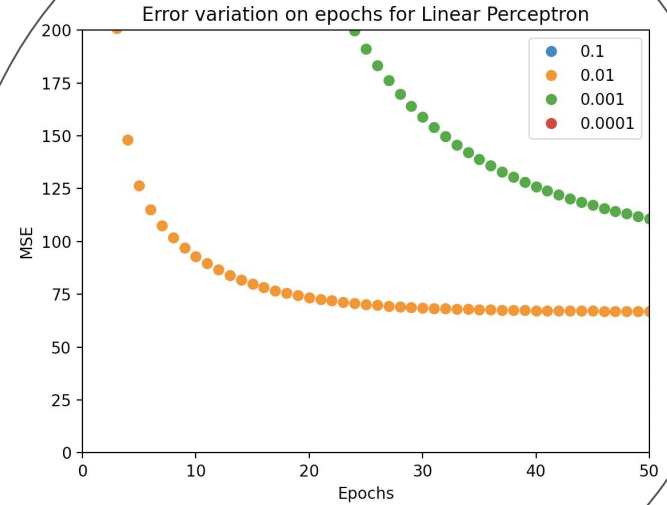
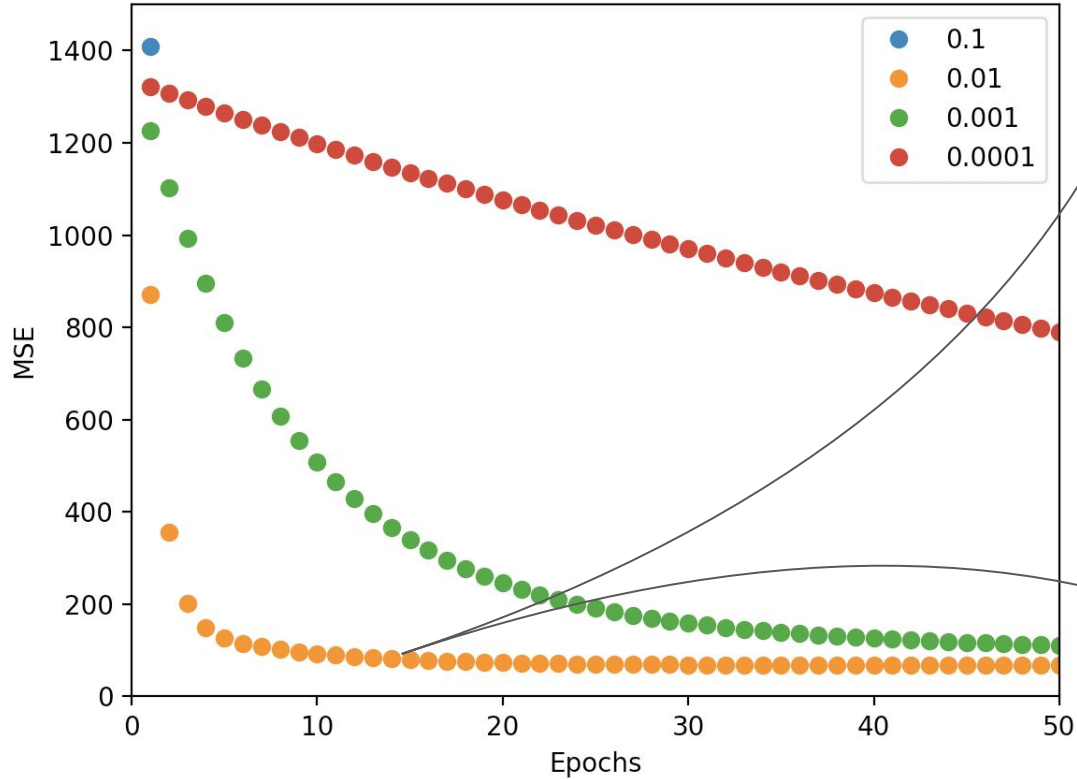


ZOOM - Lineal



ZOOM - Lineal

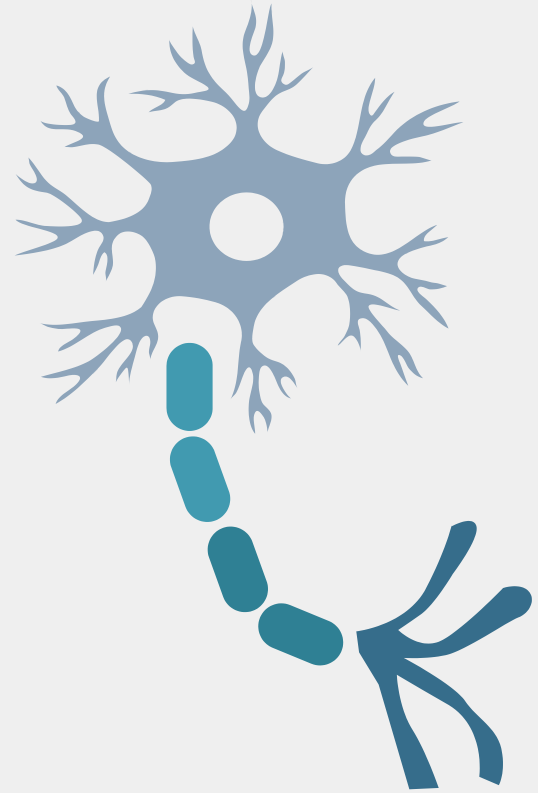
Error variation on epochs for Linear Perceptron



VALOR TOMADO LEARNING RATE

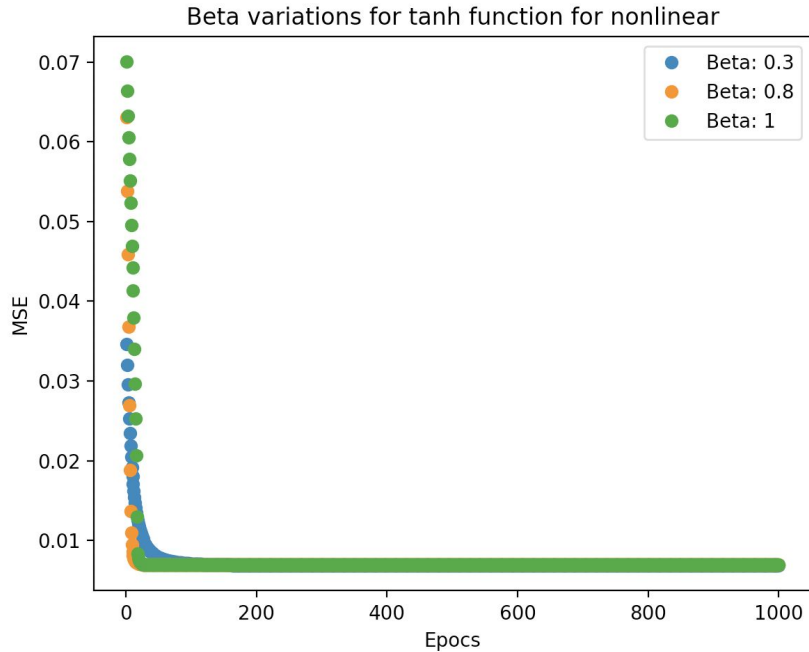
0.01

ANÁLISIS DE BETA

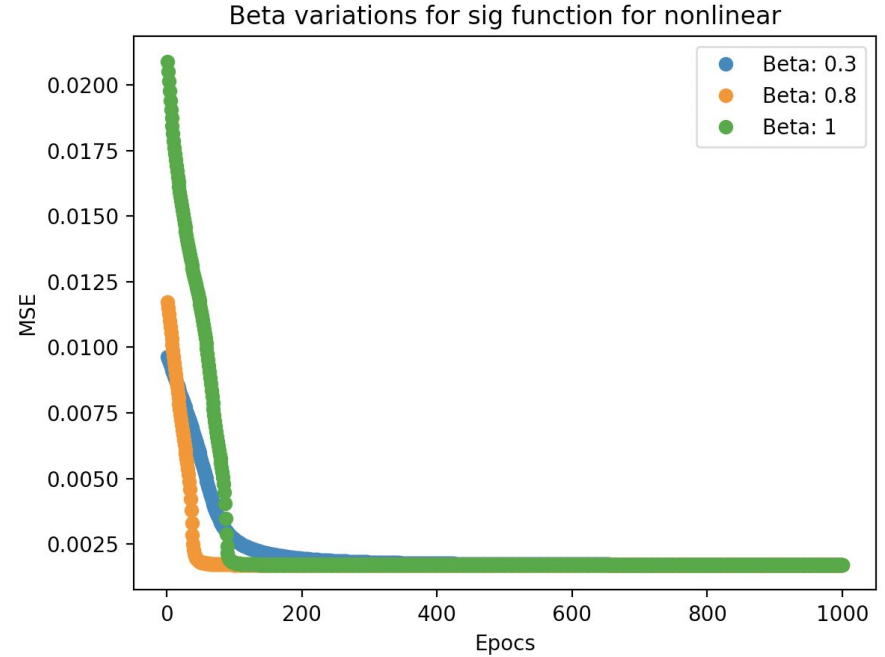


No Lineal

"learning_rate": 0.01,
"theta": "tanh"



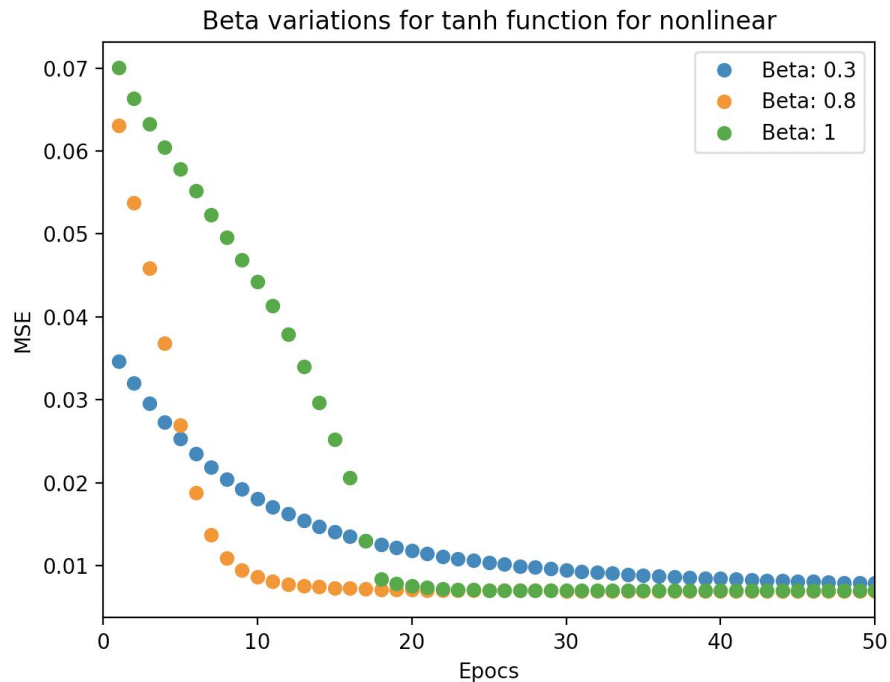
"learning_rate": 0.01,
"theta": "sig"



ZOOM - No Lineal

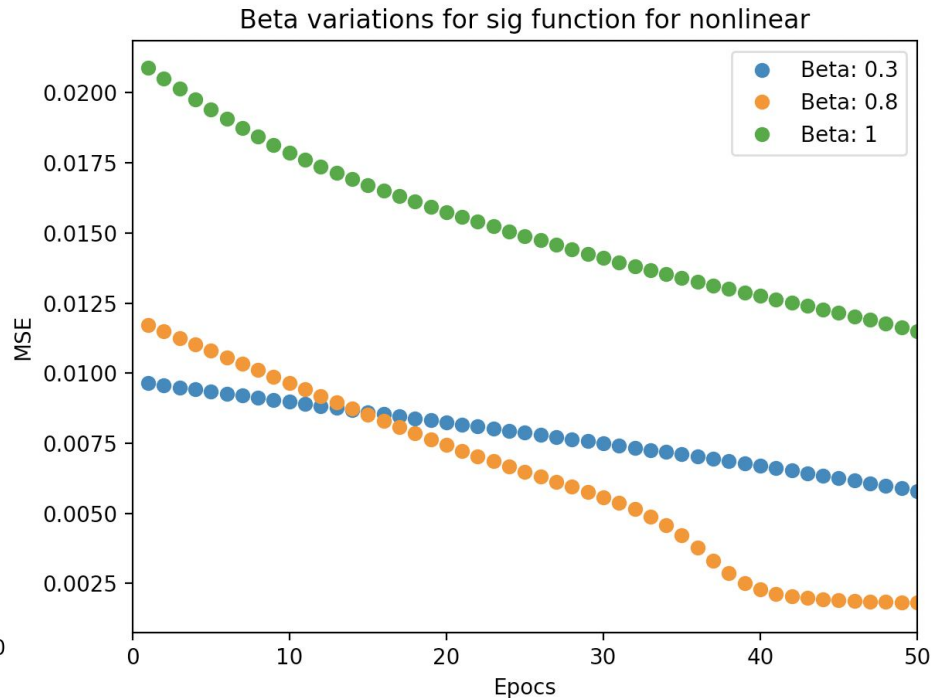
"learning_rate": 0.01,

"theta": "tanh"

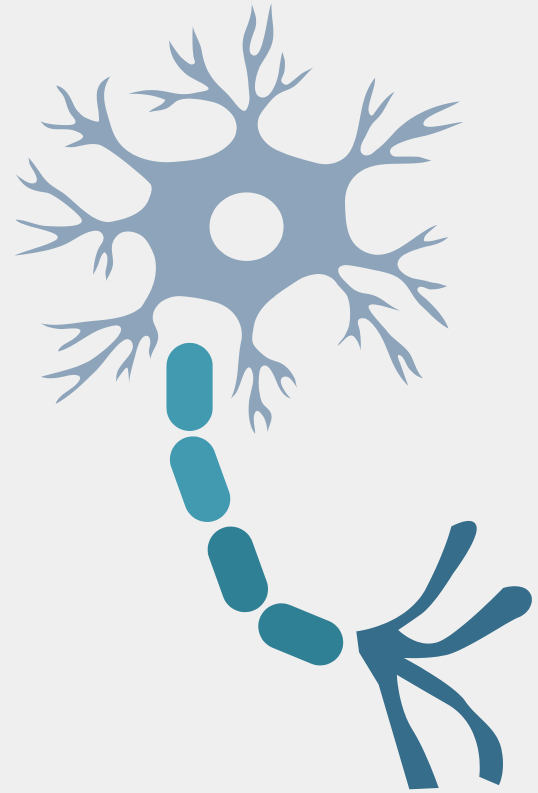


"learning_rate": 0.01,

"theta": "sig"

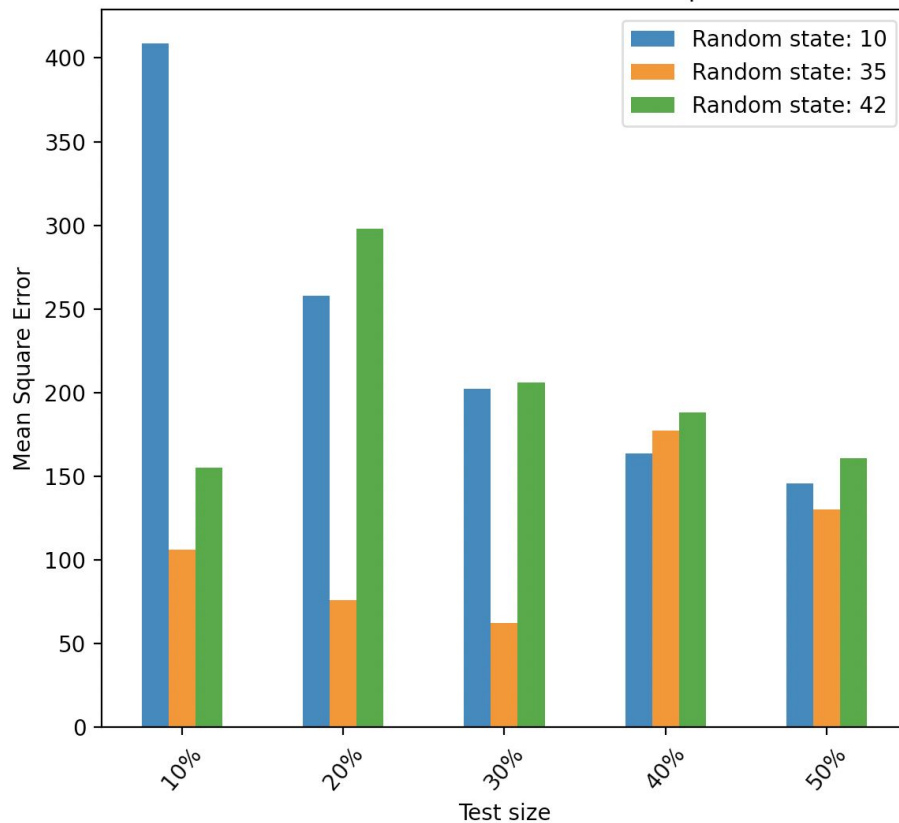


¿Qué efecto tiene la elección de parámetros en la capacidad de generalización del perceptrón?



LINEAL

Variation on MSE for Linear Perceptron

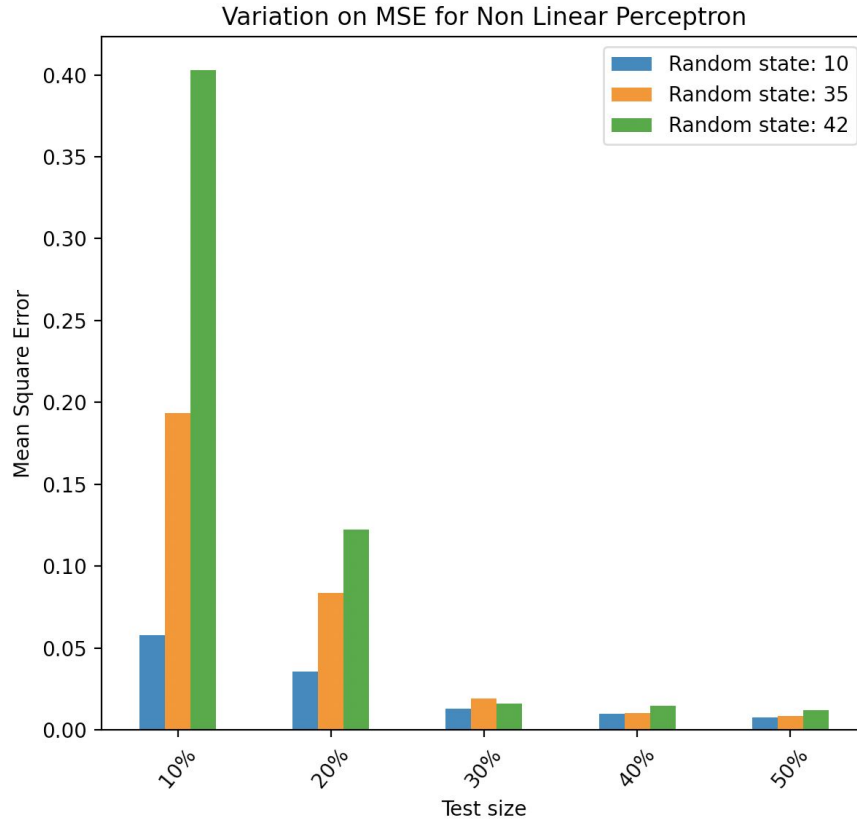


"learning_rate": 0.01,

"epochs": 1000,

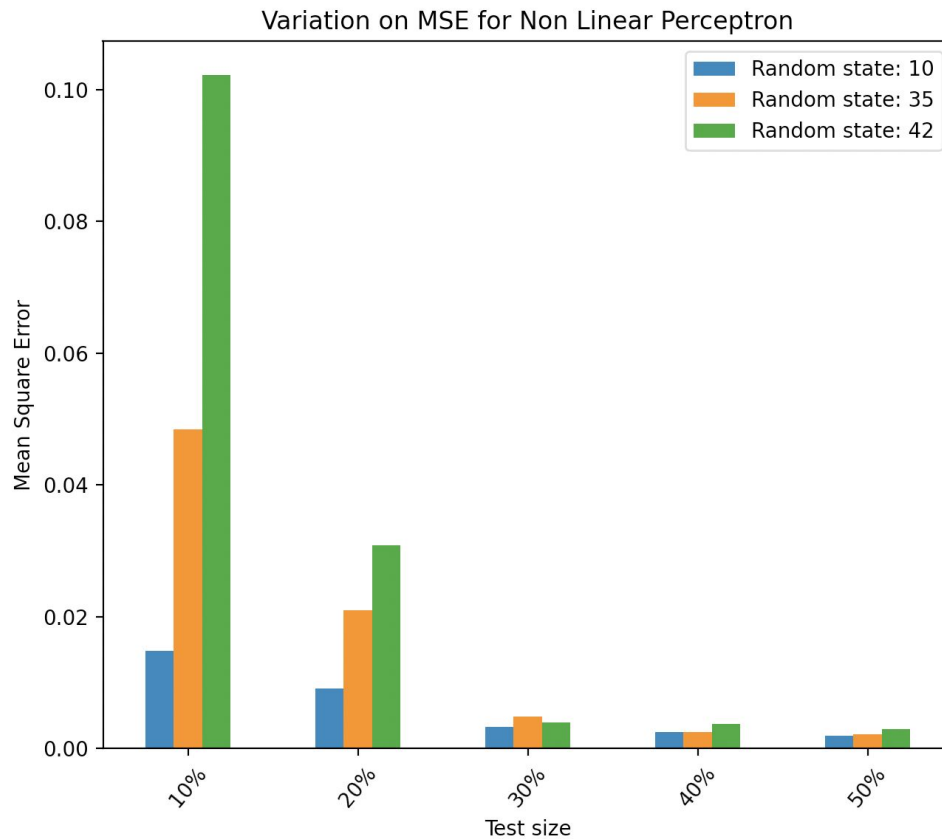
"bias": 1,

NO LINEAL



"beta": 0.8,
"theta": "tanh"
"learning_rate": 0.01,
"epochs": 1000,
"bias": 1,

NO LINEAL



"beta": 0.8,
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"learning_rate": 0.01,
"epochs": 1000,
"bias": 1,

VALORES TOMADOS

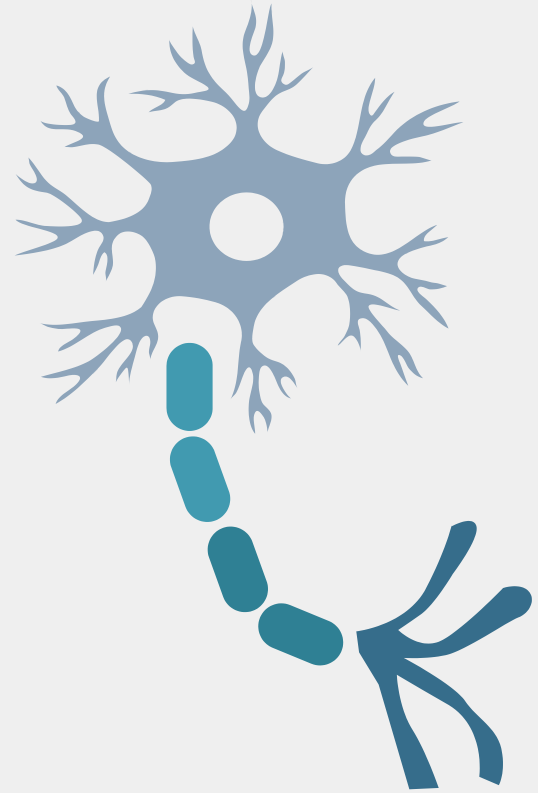
NO LINEAL

- Learning Rate: *0,01*
- Bias: *1*
- Epochs: *100*
- Beta: *0,8*
- Theta: *sigmoid*
- Random-state: *10*

LINEAL

- Learning Rate: *0,01*
- Bias: *1*
- Epochs: *100*
- Random-state: *10*

Conclusiones





iiiGracias!!!