

# Tareas CC5114

Alexandre Bergel

<http://bergel.eu>

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# Tareas

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We will have 3 tareas this semester

Tarea 1: Neural Network + Application

Fecha entrega: fin de octubre

Tarea 2: Genetic Algorithm

Fecha entrega: 18 de Noviembre

Tarea 3: Project

Combining Genetic algorithm and Neural network

Only focusing on GA or NN

Genetic programming

# Tarea 1

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Implement the neural networks

Test your network, using unit testing

Pick a data set and make prediction or regression on it

E.g.: <https://archive.ics.uci.edu/ml/datasets.html>

If you wish to use a particular dataset or use the neural network in a different context (e.g., game), talk to us

# Tarea 1

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You should provide a short report that contains:

Description of the dataset you used

Description on how to run your implementation. Assume (i) we know nothing about your programming language, and (ii) we have no library installed. You should therefore be accurate and exhaustive in your installation instruction

How does the number of hidden layers impact the learning rate?

What is the speed of your network to process data?

Effect of different learning rates

Does the order of the training data matter?

How does the number of hidden layers impact the learning rate?