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How to build your own Neural Network from scratch in Python

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calculations.. Our Python code using NumPy for the two-layer neural network follows.

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- Create a new Python file in your
PyCharm project Add the following
import statement at the top: from
cs51neural import * and then save the
file as nnlaby.py Before we can proceed,
we need to install a dependency:

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PyTorch, a library for doing stuff with

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```
import numpy as np
class
NeuralNetwork():
    def __init__(self):
        # seeding for random number
        # generation
        np.random.seed(1)
```

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```
#converting weights to a 3 by 1 matrix  
with values from -1 to 1 and mean of 0  
self.synaptic_weights = 2 *  
np.random.random((3, 1)) - 1  
def sigmoid(self, x): #applying the sigmoid  
function return 1 / (1 + np.exp(-x))  
def sigmoid_derivative(self, x):  
#computing derivative to the Sigmoid
```

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```
function return x * (1 - x) def train(self,  
training_inputs, training_outputs,  
training ...
```

How to Create a Simple Neural Network in Python

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Summary: I learn best with toy code that I can play with.

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