

## PROJECT SPECIFICATION

## Your first neural network

## Code Functionality

CRITERIA	MEETS SPECIFICATIONS
All code works appropriately and passes all unit tests	All the code in the notebook runs in Python 3 without failing, and all unit tests pass.
Sigmoid activation function	The sigmoid activation function is implemented correctly

## Forward Pass

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Hidden layer input	The input to the hidden layer is implemented correctly in both the train and run methods.
Hidden layer output	The output of the hidden layer is implemented correctly in both the <code>train</code> and <code>run</code> methods.
Output layer input	The input to the output layer is implemented correctly in both the train and run methods.
Network output	The output of the network is implemented correctly in both the train and run methods.

## Backward Pass

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Output error	The network output error is implemented correctly
Updating the weights	Updates to both the weights are implemented correctly.

## Hyperparameters

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Number of epochs	The number of epochs is chosen such the network is trained well enough to accurately make predictions but is not overfitting to the training data.
Number of hidden units	The number of hidden units is chosen such that the network is able to accurately predict the number of bike riders, is able to generalize, and is not overfitting.
Learning rate	The learning rate is chosen such that the network successfully converges, but is still time efficient.

[Student FAQ](#)