**Digit Classification**

**Comparison between a simple perceptron with MLP.**

The perceptron, is an simple algorithm used by the machine to perform binary(yes or no) classification; i.e. the main reason why perceptron was made is to predicts whether input belongs to a some category of interest or not: spam or not\_spam, apple or not\_apple. It can also be called as that the perceptron is an linear classifier(function), linear classifier(function) is an classifier that classifies according to the input that weather or not the given input satisfies the condition. MLP ( Multi layer Perceptron ) is an extended version of perceptron, in Multi layer perceptron there must be at least three 3 layers of nodes: an input layer, hidden layer and the output layer.MLP is a type of feed forward artificial neural network, except the 1st layer (input layer) each neurons of the other layers uses an non linear activation function.Back propogation technique is used for the training of MLP.

**Feedback**

The topic within an artificial intelligence is very interesting for me, I always enjoy learning artificial intelligence, when I learn about neurons is an interesting part to because it help me to think that how our brain works, it fascinates me, during the course learning about perceptron was very easy task but when I steped further in the course the multilayer perceptron was quite complicated to understand at the first time. After a lots of focus on learning resources I got the understanding of MLP. I understood the mathematical concept of backpropogation but at first time I faced trouble in implanting the mathematics in python code, this was hard part for me, but after some struggle I solved it and doing this my most of the questions are solved.

The course is designed very well, but if the author planes to change anything then He/She can explain the back propogation concept in more details and in more basic language.