IFT6135 – Homework #1

Multilayer perceptrons - programming part

Name 1	Name 2	Name 3
xxxxxxx	xxxxxxx	xxxxxx

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Problem 1

1.1 Building the Model

In the following sub-questions, please specify the model architecture (number of hidden units per layer, and the total number of parameters), the nonlinearity chosen as neuron activation, learning rate, mini-batch size.

The architecture of the model can be visualize in Fig.??. It is composed of two hidden layers with ReLU neuron activations,

$$[((asdf))]$$

$$\frac{dx}{dy}$$

$$\frac{\partial x}{\partial y}$$

$$\mathbf{x}$$

$$\hat{\mathbf{x}}$$

$$\mathbf{X}\mathbf{\Sigma}$$

$$(1.1)$$