Report
on
Assignment 6
AutoEncoder Neural Network
using
Keras

Prepared by **: Akash Rastogi**
UTA ID # 1001408667

# Initial Network Parameters

Parameter	Value
Number of Layers	3
Number of Inputs/Outputs	784
Data Set Used	MNIST
No of Samples to train	20,000

Tasks

Task #	Activation Functions	Number of Nodes in Hidden Layer	Number of Epochs
1	Relu and Linear	100	50
2	Relu and Linear	20, 40, 60, 80, 100	50
3	Relu and Linear	100	100
4	Relu and Linear	100	100
5	Relu and Linear	100	100

Output Task 1

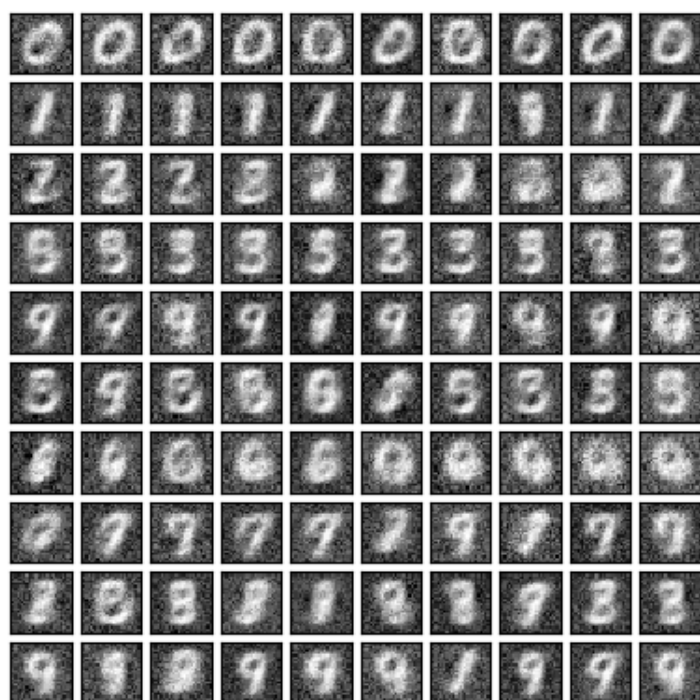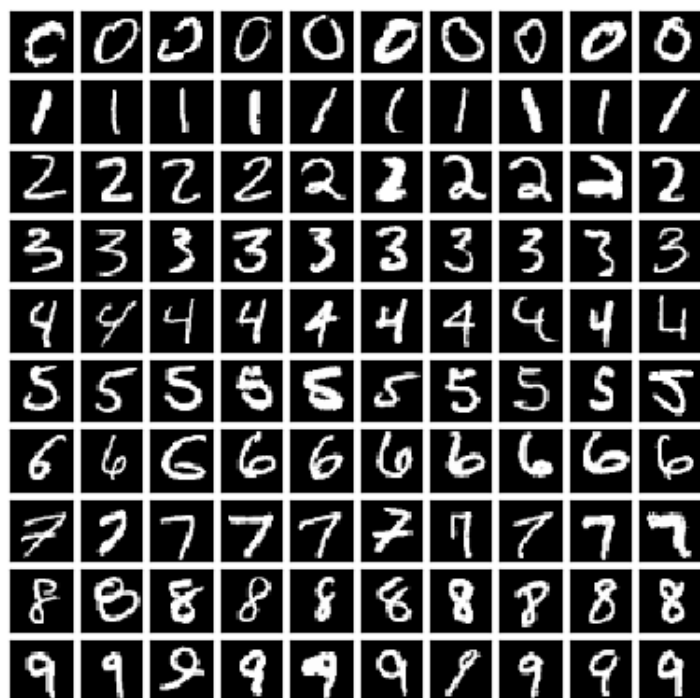Backpropogation using Theano

Output Task 2

AutoEncoder using Keras
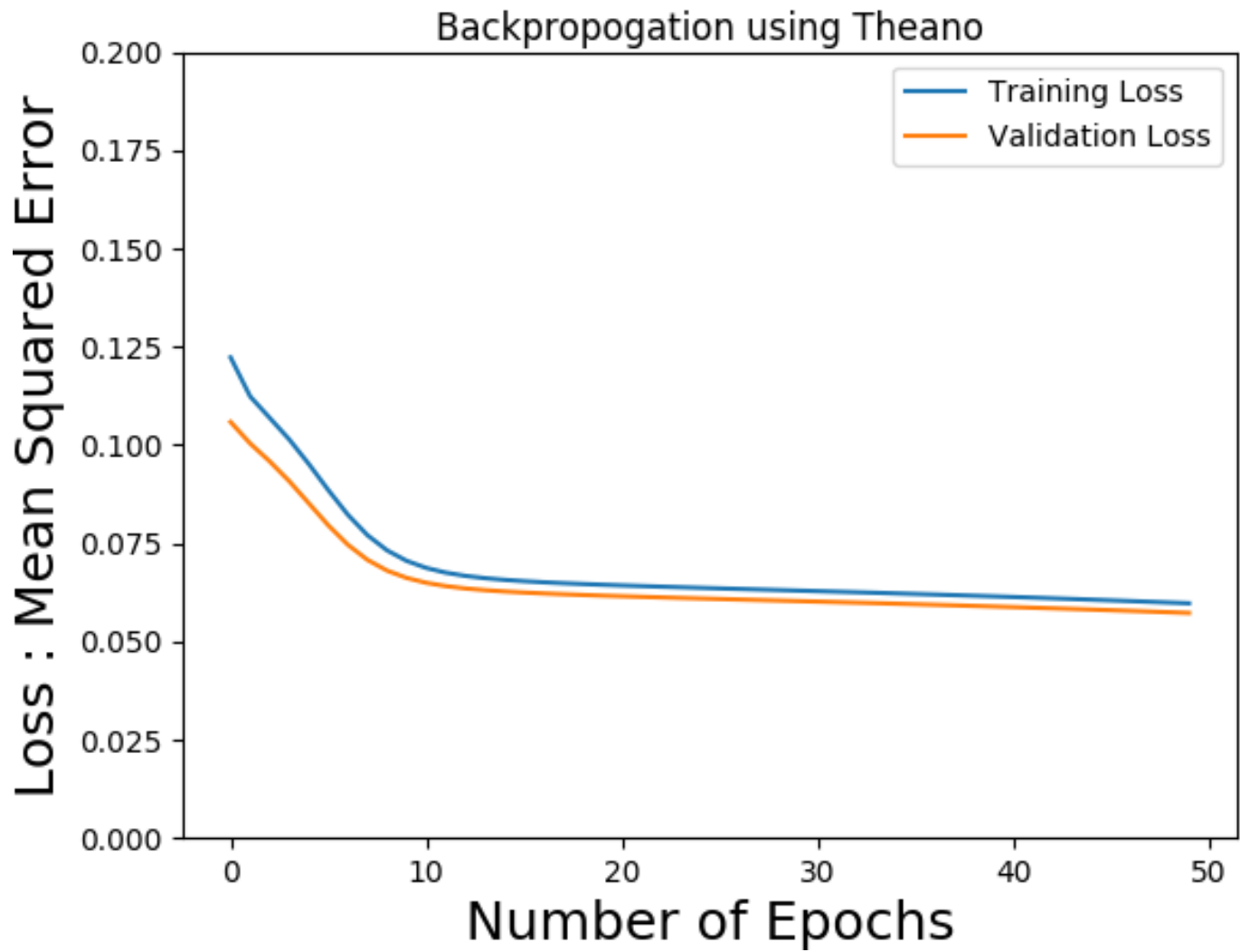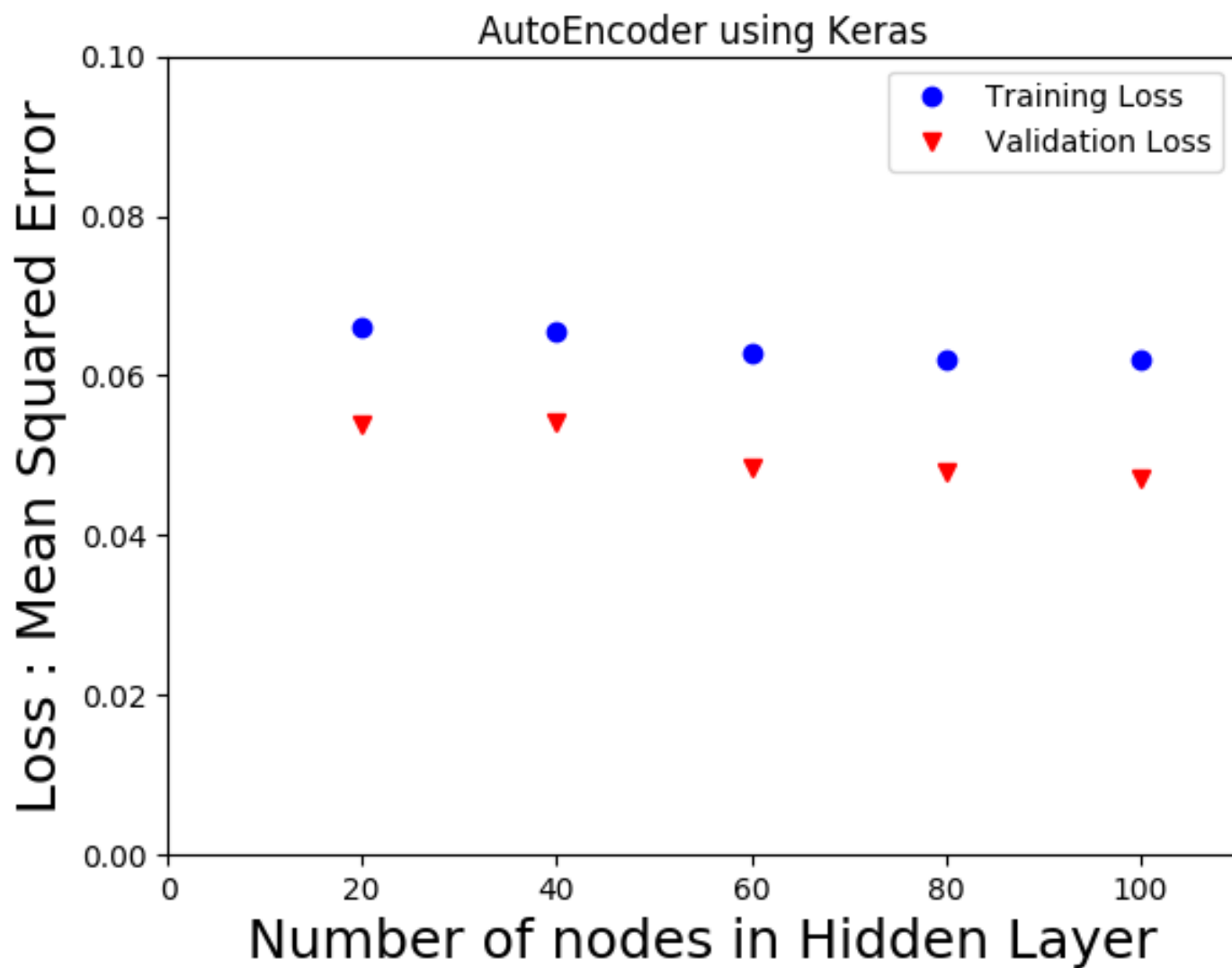
Output Task 3

Output Task 4

Output Task 5