

Task 2

Team ID : SC_26

Team :

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Backpropagation Algorithm

Activation Function	Train Accuracy	Test Accuracy	LR	Epochs	#Layers	#HiddenNodes
Sigmoid	28.18	47.50	0.1	10	2	100,100
Tanh	28.18	47.50	0.1	10	2	100,100

Task 2

Number of Hidden Layer: 2

Number of Neurons in each Layer: 100 , 100

Select Activation Function:
 ☐ Sigmoid
 ☒ Tanh

Number of Epochs (m): 10

Learning Rate (eta): 0.1

Add Bias: ☐

Run

Exit

Output

Actual	Predicted		
	Class 0	Class 1	Class 2
Class 0	<div>TP-0</div> <div>0</div>	<div>FP-0</div> <div>0</div>	<div>FP-1</div> <div>8</div>
Class 1	<div>FN-0</div> <div>0</div>	<div>TP-1</div> <div>0</div>	<div>FP-2</div> <div>13</div>
Class 2	<div>FN-1</div> <div>0</div>	<div>FN-2</div> <div>0</div>	<div>TP-2</div> <div>19</div>

Overall Train Accuracy: 28.18%

Overall Test Accuracy: 47.50%

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Sigmoid

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Class 1	<div>FN-0</div> <div>13</div>	<div>TP-1</div> <div>0</div>	<div>FP-2</div> <div>0</div>
Class 2	<div>FN-1</div> <div>8</div>	<div>FN-2</div> <div>0</div>	<div>TP-2</div> <div>0</div>

Overall Train Accuracy:

28.18%

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47.50%