**Task Sheet:** Use this task sheet to perform Section-B: Neural Net’s Exercise and **Paste** this table filled with your responses before the questions of Neural Nets segment.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Topologies** | **Sigmoid Function** | | | | | | **Relu Function** | | | | | |
|  | Training Accuracy | | | Testing Accuracy | | | Training Accuracy | | | Testing Accuracy | | |
| **[256,96,32,10]** | 53.75% | | | 61.12% | | |  | | |  | | |
| **[96,32,10]** |  | | |  | | |  | | |  | | |
| **[128,64,32,10]** |  | | |  | | |  | | |  | | |
| **Best Topology Selected** | ------ Write your best Topology and Activation function here ----- | | | | | | | | | | | |
| **Learning Rate** | **0.1** | | | **0.01** | | | **0.001** | | | **0.0001** | | |
|  | Training Accuracy | Testing Accuracy | | Training Accuracy | | Testing Accuracy | Training Accuracy | Testing Accuracy | | Training Accuracy | | Testing Accuracy |
|  |  |  | |  | |  |  |  | |  | |  |
| **Best Learning Rate Selected** | ------ Write your best Topology and Activation function, and Learning Rate here ----- | | | | | | | | | | | |
| **Batch Size** | **128** | | | | **64** | | | | **32** | | | |
|  | Training Accuracy | | Testing Accuracy | | Training Accuracy | | Testing Accuracy | | Training Accuracy | | Testing Accuracy | |
|  |  | |  | |  | |  | |  | |  | |
| **Best Batch Size Selected** | --- Write your best Topology and Activation function, Learning Rate, and Batch Size here --- | | | | | | | | | | | |
| **Overall Best Model Performance** | **Overall Best Model Training Accuracy** | | | | | | **Overall Best Model Testing Accuracy** | | | | | |
|  |  | | | | | |  | | | | | |