|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Id of model | Activation Function | Train Accuracy | Test Accuracy | Learning Rate | Epochs | Layers | Hidden Nodes |
| 1 | sigmoid | 100% | 100% | 0.1 | 1000 | 2 | 4,3 |
| 2 | tanh | 100% | 100% | 0.1 | 1000 | 2 | 7,8 |
| 3 | sigmoid | 100.0% | 98.33 | 0.1 | 1000 | 1 | 10 |
| 4 | tanh | 81.11% | 85.0% | 0.001 | 5000 | 1 | 5 |
| 5 | sigmoid | 100% | 100% | 0.5 | 2000 | 3 | 4,3,5 |
| 6 | sigmoid | 66.67% | 65.0% | 0.5 | 2600 | 4 | 4,3,5,1 |

Confusion matrix of model 1

|  |  |  |  |
| --- | --- | --- | --- |
| Class | C1 | C2 | C3 |
| C1 | 20.0 | 0.0 | 0.0 |
| C2 | 0.0 | 20.0 | 0.0 |
| C3 | 0.0 | 0.0 | 20.0 |

Confusion matrix of model 2

|  |  |  |  |
| --- | --- | --- | --- |
| Class | C1 | C2 | C3 |
| C1 | 20.0 | 0.0 | 0.0 |
| C2 | 0.0 | 20.0 | 0.0 |
| C3 | 0.0 | 0.0 | 2.0 |

|  |  |  |  |
| --- | --- | --- | --- |
| Class | C1 | C2 | C3 |
| C1 | 20.0 | 0.0 | 0.0 |
| C2 | 0.0 | 20.0 | 0.0 |
| C3 | 1 | 0.0 | 19.0 |

Confusion matrix of model 3

|  |  |  |  |
| --- | --- | --- | --- |
| Class | C1 | C2 | C3 |
| C1 | 20.0 | 0.0 | 0.0 |
| C2 | 0.0 | 20.0 | 0.0 |
| C3 | 8 | 1.0 | 11 |

Confusion matrix of model 4

Confusion matrix of model 5

|  |  |  |  |
| --- | --- | --- | --- |
| Class | C1 | C2 | C3 |
| C1 | 20.0 | 0.0 | 0.0 |
| C2 | 0.0 | 20.0 | 0.0 |
| C3 | 0.0 | 0.0 | 20.0 |

|  |  |  |  |
| --- | --- | --- | --- |
| Class | C1 | C2 | C3 |
| C1 | 20.0 | 0.0 | 0.0 |
| C2 | 0.0 | 0.0 | 20.0 |
| C3 | 0.0 | 0.0 | 20.0 |

Confusion matrix of model 6