|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Configurations** | **Accuracy** | | **Precision** | | **Recall** | | **F1-Score** | |
| Train set | Test set | Train set | Test set | Train set | Test set | Train set | Test set |
| ANN-1 | 14x10, ReLU  10x5,ReLU  5x4,ReLU  4x1,Sigmoid  Epoch=150  Scaling=yes | 0.86 | 0.86 | 0.73 | 0.71 | 0.46 | 0.49 | 0.56 | 0.58 |
| ANN-2 | 14x11, ReLU  11x9,ReLU  9x5, ReLU  5x3, Sigmoid  3x1, Sigmoid  Epoch=150  Scaling=yes | 0.87 | 0.86 | 0.80 | 0.77 | 0.46 | 0.46 | 0.58 | 0.58 |
| ANN-3 | 14x11, ReLU  11x9,ReLU  9x7, ReLU  7x4, Sigmoid  4x1, Sigmoid  Epoch=150  Scaling=yes | 0.87 | 0.87 | 0.79 | 0.78 | 0.47 | 0.50 | 0.59 | 0.61 |
| ANN-4 | 14x11, ReLU  11x9,ReLU  9x7, Sigmoid  7x4, Sigmoid  4x1, Sigmoid  Epoch=150  Scaling=yes | 0.86 | 0.86 | 0.79 | 0.77 | 0.41 | 0.41 | 0.54 | 0.54 |
| ANN-5 | 14x11, ReLU  11x9,ReLU  9x7, ReLU  7x4, Sigmoid  4x1, Sigmoid  Epoch=200  Scaling=yes | 0.86 | 0.87 | 0.74 | 0.73 | 0.51 | 0.53 | 0.61 | 0.62 |
| ANN-6 | 14x11, ReLU  11x9,Tanh  9x7, Tanh  7x4, Sigmoid  4x1, Sigmoid  Epoch=150  Scaling=yes | 0.87 | 0.87 | 0.77 | 0.74 | 0.52 | 0.51 | 0.62 | 0.60 |
| ANN-7 | 14x11, ReLU  11x9,ReLU  9x7, ReLU  7x5, Sigmoid  5x3, Sigmoid  3x1, Sigmoid  Epoch=150  Scaling=yes | 0.87 | 0.87 | 0.84 | 0.80 | 0.44 | 0.45 | 0.58 | 0.57 |
| ANN-8 | 14x12, ReLU  12x6,ReLU  6x1, Sigmoid  Epoch=150  Scaling=yes | 0.87 | 0.87 | 0.80 | 0.77 | 0.46 | 0.47 | 0.58 | 0.58 |
| ANN-9 | 14x12, ReLU  12x9,Sigmoid  9x1, Sigmoid  Epoch=150  Scaling=yes | 0.86 | 0.87 | 0.74 | 0.75 | 0.48 | 0.52 | 0.58 | 0.61 |
| ANN-10 | 14x12, ReLU  12x9,ReLu  9x3,Sigmoid  3x1, Sigmoid  Epoch=150  Scaling=yes | 0.86 | 0.87 | 0.80 | 0.77 | 0.45 | 0.47 | 0.57 | 0.68 |
| ANN-11 | 14x12, ReLU  12x9,ReLu  9x3,Sigmoid  3x1, Sigmoid  Epoch=200  Scaling=yes | 0.87 | 0.86 | 0.78 | 0.72 | 0.50 | 0.50 | 0.62 | 0.59 |