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| Experiment no. | Parameter | Results |
| 1 | Neural Network  No. Neurons: 176  Epochs: 20  Optimizer: Adam  Filter Activation: relu  Dense Activation: relu  Final Activation: Sigmoid  Accuracy Loss: Binary Cross Entropy | Sample size: 1000  Training size:800  Validation size: 200  Accuracy: 91%  Total loss: 13.2 |
| 2 | Neural Network  No. Neurons: 176  Epochs: 10  Optimizer: Adam  Filter Activation: tanh  Dense Activation: tanh  Final Activation: Sigmoid  Accuracy Loss: Binary Cross Entropy | Sample size: 1000  Training size:800  Validation size: 200  Accuracy: 73%  Total loss: 59.1 |
| 3 | Neural Network  No. Neurons: 176  Epochs: 10  Optimizer: Adam  Filter Activation: relu  Dense Activation: relu  Final Activation: Sigmoid  Accuracy Loss: Binary Cross Entropy | Sample size: 1000  Training size:800  Validation size: 200  Accuracy: 85%  Total loss: 37.4 |
| 4 | Neural Network  No. Neurons: 176  Epochs: 10  Optimizer: Nadam  Filter Activation: relu  Dense Activation: relu  Final Activation: Sigmoid  Accuracy Loss: Binary Cross Entropy | Sample size: 1000  Training size:800  Validation size: 200  Accuracy: 86%  Total loss: 31.3 |
| 5 | Neural Network  No. Neurons: 176  Epochs: 10  Optimizer: Stochastic Gradient Descent  Filter Activation: relu  Dense Activation: relu  Final Activation: Sigmoid  Accuracy Loss: Binary Cross Entropy | Sample size: 1000  Training size:800  Validation size: 200  Accuracy: 72%  Total loss: 53.4 |