U01\_Acc\_TimeD\_MDay.mat

2nd data set

We have six different data sets and 10 users. When I get the 2nd data set I meagre the 10 users and get that data in one file.

Summarize the result in that 2nd data set.

2nd step Training data set

|  |  |
| --- | --- |
| Hidden layers | 20,10 |
| Validation | 70%, 15%, 15% |
| Parameters | 1000, 1e-6, 1e-7 |
| Training Accuracy | 100.00% |
| Test Accuracy | 77.78% |

3rd step Optimization data sets

|  |  |
| --- | --- |
| Validation Accuracy PCA | 62.96% |
| Test optimization Accuracy PCA | 55.56% |

4th step

Best Training and Testing Values

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 1st time | 2nd time | 3rd time | 4th time | 5th time |
| Hiddenlayers,  Validation,  Parameters | 20,10  70%, 15%, 15%  1000, 1e-6, 1e-7 | 30,15  60%, 20%, 20%  500, 1e-5, 1e-8 | 40,20  80%, 30%, 30%  1000, 1e-6, 1e-7 | 20,10, 15  70%, 30%, 30%  1000, 1e-7, 1e-9 | 40,20,10  70%, 20%, 20%  1000, 1e-6, 1e-7 |
| Training Accuracy | 94.05% | 100% | 100% | 97.94% | 83.48% |
| Testing Accuracy | 85.19% | 77.78% | 67.53% | 84.34% | 67.69% |

5th step

Optimization Validation and Test Accuracy

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 1st time | 2nd time | 3rd time | 4th time | 5th time |
| Hiddenlayers,  Validation,  Parameters | 20,10  70%, 15%, 15%  1000, 1e-6, 1e-7 | 30,15  60%, 20%, 20%  500, 1e-5, 1e-8 | 40,20  80%, 30%, 30%  1000, 1e-6, 1e-7 | 20,10, 15  70%, 30%, 30%  1000, 1e-7, 1e-9 | 40,20,10  70%, 20%, 20%  1000, 1e-6, 1e-7 |
| Validation Accuracy | 68.89% | 70.28% | 68.96% | 65.54% | 75.08% |
| Testing Accuracy | 73.28% | 69.72% | 66.62% | 68.80% | 72.62% |