We use ADAM for training and RELU for the activation. For all the training we did 200 epochs.

First run is with 3 hidden layers with 10 neurons:

|  |  |
| --- | --- |
| **Reduced by** | **Score** |
| LDA 9 features | 0.9032 |
| PCA 10 features | 0.8876 |
| PCA 20 features | 0.92 |
| PCA 30 features | 0.9242 |

Second run is with 3 hidden layers with 50 neurons

|  |  |
| --- | --- |
| **Reduced by** | **Score** |
| LDA 9 features | 0.9135 |
| PCA 10 features | 0.9219 |
| PCA 20 features | 0.9594 |
| PCA 30 features | 0.9658 |

Third run is with 5 hidden layers with 10 neurons

|  |  |
| --- | --- |
| **Reduced by** | **Score** |
| LDA 9 features | 0.9032 |
| PCA 10 features | 0.8793 |
| PCA 20 features | 0.9138 |
| PCA 30 features | 0.9219 |

Fourth run is with 5 hidden layers and 30 neurons

|  |  |
| --- | --- |
| **Reduced by** | **Score** |
| LDA 9 features | 0.9173 |
| PCA 10 features | 0.9186 |
| PCA 20 features | 0.9567 |
| PCA 30 features | 0.9585 |