|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Activation** | **Hidden**  **Layer Count** | **Average Hidden Layer Size**  **(x \* inputSize)** | **Average Bias Count** | **Learning Rate** | **Momentum** | **Max error in final 10 items (1 epoch)** | **Time for 1 epoch (3800)** |
| reLu | 1 | 1.5 | 1 | 0.25 | 0 | 6.2 | 49 |
| sigmoid | 1 | 1.5 | 1 | 0.25 | 0 | 6.2 | 51 |
| tanh | 1 | 1.5 | 1 | 0.25 | 0 | 6.2 | 50 |
|  | | | | | | | |
| tanh | 0 | 1.5 | 1 | 0.25 | 0 | 3.2 | 4 |
| tanh | 1 | 1.5 | 1 | 0.25 | 0 | 6.2 | 50 |
| tanh | 2 | 1.5 | 1 | 0.25 | 0 | 6.7 | 93 |
|  | | | | | | | |
| tanh | 1 | 1 | 1 | 0.25 | 0 | 3.8 | 28 |
| tanh | 1 | 1.5 | 1 | 0.25 | 0 | 6.2 | 50 |
| tanh | 1 | 2 | 1 | 0.25 | 0 | 6.2 | 49 |
|  | | | | | | | |
| tanh | 1 | 1.5 | 0 | 0.25 | 0 | 4.5 | 38 |
| tanh | 1 | 1.5 | 1 | 0.25 | 0 | 6.2 | 50 |
| tanh | 1 | 1.5 | 2 | 0.25 | 0 | 5.1 | 39 |
|  | | | | | | | |
| tanh | 1 | 1.5 | 1 | 0.12 | 0 | 7.8 | 40 |
| tanh | 1 | 1.5 | 1 | 0.25 | 0 | 6.2 | 50 |
| tanh | 1 | 1.5 | 1 | 0.37 | 0 | 3.8 | 39 |
|  | | | | | | | |
| tanh | 1 | 1.5 | 1 | 0.25 | -0.2 | 7.8 | 39 |
| tanh | 1 | 1.5 | 1 | 0.25 | 0 | 6.2 | 50 |
| tanh | 1 | 1.5 | 1 | 0.25 | 0.2 | 7.8 | 40 |

Tests

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| reLu | 0 | 1.5 | 0 | 0.37 | 0 | 4.3 | 4 |
| tanh | 0 | 1.5 | 0 | 0.37 | 0 | 4.3 | 4 |