**MLP Binary**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Epoch Count** | **h1** | **h2** | **nu** | **mu** | **test\_err** |
| 51 | 10 | 90 | 0.1 | 0.9 | 0.0684 |
| 51 | 90 | 10 | 0.1 | 0.9 | 0.1067 |
| 51 | 50 | 50 | 0.1 | 0.9 | 0.4335 |
| 51 | 10 | 10 | 0.1 | 0.1 | 0.0292 |
| 21 | 10 | 10 | 0.9 | 0.1 | 0.8106 |
| 51 | 10 | 10 | 0.1 | 0.9 | 0.0218 |
| 21 (w = 5) | 10 | 10 | 0.1 | 0.1 | 0.6947 |
| 21 (w = 0.01) | 10 | 10 | 0.1 | 0.1 | 0.1661 |
| 21 (w = 0.01) | 10 | 10 | 0.1 | 0.9 | 0.1425 |

**Linear Regression**

Test Error: 0.4763

v\* = 10

**Logistic Regression**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Epoch Count** | **h1** | **h2** | **nu** | **mu** | **test\_err** |
| 51 | 10 | 90 | 0.1 | 0.9 | 0.0684 |
| 51 | 90 | 10 | 0.1 | 0.9 | 0.1067 |
| 51 | 50 | 50 | 0.1 | 0.9 | 0.4335 |
| 51 | 10 | 10 | 0.1 | 0.1 | 0.0292 |
| 21 | 10 | 10 | 0.9 | 0.1 | 0.8106 |
| 51 | 10 | 10 | 0.1 | 0.9 | 0.0218 |
| 21 (w = 5) | 10 | 10 | 0.1 | 0.1 | 0.6947 |
| 21 (w = 0.01) | 10 | 10 | 0.1 | 0.1 | 0.1661 |
| 21 (w = 0.01) | 10 | 10 | 0.1 | 0.9 | 0.1425 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Epoch Count** | **nu** | **mu** | **test\_err** |
| 105 | 0.1 | 0.1 | 0.7280 |
| 114 | 0.1 | 0.9 | 0.5471 |
| 101 | 0.9 | 0.9 | 1.4077 |
| 87 (W gauss.) | 0.1 | 0.9 | 0.5722 |
| 3 (W = 5) | 0.1 | 0.9 | NaN |
| 94(W = 0.1) | 0.1 | 0.9 | 0.544 |
|  |  |  |  |