**LAB 2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Initializer | Train accuracy | Train Loss | Val Acc | Val Loss |
| Baseline Model | 0.4712 | 1.4752 | 0.4738 | 1.4751 |
| Const | 0.098 | 2.3027 | 0.10 | 2.3026 |
| Random Uniform | 0.4788 | 1.4534 | 0.4702 | 1.4907 |
| Ones | 0.10 | 14.506 | 0.10 | 14.506 |
| Random Normal | 0.4777 | 1.4623 | 0.4770 | 1.4637 |
| Truncated Normal | 0.4766 | 1.4551 | 0.4618 | 1.5101 |
| Variance Scaling | 0.4779 | 1.4513 | 0.4801 | 1.4594 |
| Orthogonal | 0.4701 | 1.4797 | 0.4770 | 1.4827 |
| Identity | 0.1908 | 2.0587 | 0.1873 | 2.0592 |
| LeCun Uniform | 0.4848 | 1.4393 | 0.4784 | 1.4512 |
| Glorot Normal | 0.4772 | 1.4615 | 0.4729 | 1.4773 |
| Glorot Uniform | 0.4807 | 1.4502 | 0.4692 | 1.4774 |
| He Normal | 0.4744 | 1.4650 | 0.4722 | 1.4712 |
| LeCun Normal | 0.4776 | 1.4588 | 0.4758 | 1.4708 |
| He Uniform | 0.4772 | 1.4622 | 0.4560 | 1.5202 |

Inference:

**The best train accuracy model and validation accuracy model is Le\_cun uniform model.**

**Therefore lecun model is the best model.**

**It has a training accuracy of 0.4848**

**And a validation accuracy of 0.4784**