|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| dense\_units | dropout | weight\_decay | lr | lr\_factor | epochs | train\_acc | val\_acc | test\_acc |
| 1024 | 0.5 | 0.0005 | 0.005 | 0.3 | 25 | 0.7368 | 0.6387 | 0.6380 |
| 1024 | 0.3 | 0.0005 | 0.03 | 0.3 | 30 | No training | No training | No training |
| 1024 | 0.3 | 0.0005 | 0.005 | 0.3 | 30 | 0.9681 | 0.5663 | - |
| ~~1024~~ | ~~0.5~~ | ~~0.0005~~ | ~~0.005~~ | ~~0.3~~ | ~~30~~ | ~~-~~ | ~~-~~ | ~~-~~ |
| 1024 | 0.3 | 0.001 | 0.005 | 0.3 | 30 | 0.9785 | 0.5948 | - |
| 1024 | 0.4 | 0.001 | 0.005 | 0.3 | 30 | - | - | - |
| 1024 | 0.3 | 0.003 | 0.005 | 0.3 | 30 | 0.9873 | 0.5631 | - |
| 1024 | 0.3 | 0.01 | 0.005 | 0.3 | 30 | 0.9168 | 0.5711 | - |
| 2048 | 0.3 | 0.01 | 0.005 | 0.3 | 30 | 0.9888 | 0.56 | - |
| 1024 | 0.4 | 0.0005 | 0.005 | 0.3 | 30 | 0.8908 | 0.5452 | - |
| 1024 | 0.4 | 0.0005 | 0.005 | 0.3 | 30 | - | - | - |
| 1024 | 0.4 | 0.0005 | 0.001 | 0.3 | 30 | - | - | - |
| 1024 | 0.4 | 0.0005 | 0.01 | 0.3 | 30 | - | - | - |
| 1024 | 0.3 | 0.001 | 0.01 | 0.3 | 30 | 0.9790 | 0.6043 | - |
| 1024 | 0.3 | 0.005 | 0.01 | 0.3 | 30 | 0.38 | 0.35 | - |
| 2048 | 0.4 | 0.003 | 0.01 | 0.3 | 30 | - | - | - |
| 2048 | 0.3 | 0.001 | 0.005 | 0.3 | 30 | - | - | - |
|  |  |  |  |  |  |  |  |  |
| 1024 | 0.5 | 0.0005 | 0.005 | 0.3 | 30 | - | - | - |
| 1024 | 0.4 | 0.0005 | 0.005 | 0.3 | 30 | 0.95 | 0.59 | - |
| Using He Normal Initializer | | | | | | | | |
| 1024 | 0.4 | 0.005 | 0.005 | 0.3 | 30 | 0.9942 | 0.7116 | - |
| 1024 | 0.5 | 0.0005 | 0.005 | 0.3 | 30 | 0.95 | 0.70 | - |
| 1024 | 0.5 | 0.005 | 0.005 | 0.3 | 30 | 0.9508 | 0.7116 | - |
| 1024 | 0.5 | 0.01 | 0.005 | 0.3 | 30 | 0.9690 | 0.7169 | - |
| Removed Augmentation | | | | | | | | |
| 1024 | 0.5 | 0.01 | 0.005 | 0.3 | 30 | 0.9695 | 0.6878 | - |
| 1024 | 0.6 | 0.005 | 0.005 | 0.3 | 30 | - | - | - |
| 1024 | 0.6 | 0.001 | 0.005 | 0.3 | 30 | 0.9125 | 0.7412 | 0.7439 |
| 512 | 0.5 | 0.001 | 0.005 | 0.3 | 30 | 0.9597 | 0.7137 | - |
| 512 | 0.6 | 0.001 | 0.005 | 0.3 | 30 | - | - | - |
| 512 | 0.6 | 0.001 | 0.001 | 0.5 | 30 | 0.8792 | 0.7644 | 0.7648 |
| 512 | 0.6 | 0.003 | 0.005 | 0.5 | 35 | 0.9787 | 0.7459 | 0.7562 |
| 256 | 0.6 | 0.003 | 0.005 | 0.5 | 35 | 0.9471 | 0.7063 | 0.7279 |
| 256 | 0.6 | 0.01 | 0.005 | 0.5 | 35 | 0.9567 | 0.7279 | 0.7322 |
| 128 | 0.5 | 0.01 | 0.005 | 0.5 | 35 | 0.8936 | 0.7211 | 0.7317 |
| 128 | 0.6 | 0.01 | 0.005 | 0.5 | 35 | 0.6884 | 0.6566 | - |
| 128 | 0.5 | 0.05 | 0.005 | 0.5 | 35 | 0.8650 | 0.7422 | 0.7541 |
| 128 | 0.5 | 0.08 | 0.005 | 0.5 | 35 | 0.9451 | 0.7184 | 0.7404 |
| 128 | 0.6 | 0.008 | 0.005 | 0.5 | 35 | 0.7219 | 0.6772 | 0.6820 |
| 128 | 0.6 | 0.008 | 0.005 | 0.5 | 50 | - | - | - |
| 128 | 0.55 | 0.008 | 0.005 | 0.5 | 50 | 0.8718 | 0.7475 | 0.7445 |
| 128 | 0.55 | 0.01 | 0.005 | 0.5 | 50 | 0.8412 | 0.7396 | - |
| With Augmentation (0.2 rotation) | | | | | | | | |
| 128 | 0.55 | 0.01 | 0.005 | 0.5 | 50 | 0.4582 | 0.4844 | 0.5019 |
| 128 | 0.5 | 0.008 | 0.005 | 0.5 | 50 | 0.5213 | 0.5652 | - |
| 128 | 0.5 | 0.001 | 0.005 | 0.5 | 50 | 0.4616 | 0.5145 | - |
| 512 | 0.5 | 0.001 | 0.005 | 0.5 | 50 | 0.6168 | 0.6059 | - |
| 512 | 0.5 | 0.0001 | 0.005 | 0.5 | 50 | 0.6542 | 0.6498 | - |
| 512 | 0.4 | 0.0001 | 0.005 | 0.5 | 50 | 0.7410 | 0.6899 | - |
| 1024 | 0.4 | 0.0001 | 0.005 | 0.5 | 50 | 0.7496 | 0.6941 | - |
| 1024 | 0.3 | 0.0001 | 0.005 | 0.5 | 50 | 0.6902 | 0.6355 | - |
| 1024 | 0.3 | 0.0001 | 0.01 | 0.5 | 50 | 0.7295 | 0.6619 | - |
| 1024 | 0.001 | 0.0001 | 0.01 | 0.5 | 50 | 0.8281 | 0.7058 | - |
| With Augmentation (0.1 rotation) | | | | | | | | |
| 1024 | 0.0001 | 0.0001 | 0.01 | 0.5 | 50 | 0.7925 | 0.6841 | - |
| 2048 | 0.0001 | 0.0001 | 0.01 | 0.5 | 50 | 0.8857 | 0.7089 | - |
| 2048 | 0.0001 | 0.001 | 0.01 | 0.5 | 50 |  |  |  |