# Bảng Training Metrics CNN

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| Epoch | Train\_Loss | Train\_Acc | Test\_Loss | Test\_Acc |
| 1 | 0.757 | 76.636 | 0.084 | 97.680 |
| 2 | 0.267 | 90.771 | 0.052 | 98.908 |
| 3 | 0.188 | 93.513 | 0.032 | 99.236 |
| 4 | 0.144 | 95.004 | 0.027 | 99.306 |
| 5 | 0.122 | 95.795 | 0.018 | 99.574 |
| 6 | 0.106 | 96.414 | 0.013 | 99.634 |
| 7 | 0.089 | 97.018 | 0.014 | 99.609 |
| 8 | 0.074 | 97.555 | 0.012 | 99.672 |
| 9 | 0.066 | 97.836 | 0.012 | 99.665 |
| 10 | 0.057 | 98.046 | 0.012 | 99.662 |
| 11 | 0.055 | 98.211 | 0.019 | 99.452 |
| 12 | 0.050 | 98.324 | 0.016 | 99.522 |
| 13 | 0.046 | 98.462 | 0.009 | 99.759 |
| 14 | 0.044 | 98.531 | 0.009 | 99.756 |
| 15 | 0.042 | 98.636 | 0.007 | 99.773 |
| 16 | 0.039 | 98.699 | 0.008 | 99.780 |
| 17 | 0.036 | 98.797 | 0.008 | 99.787 |
| 18 | 0.035 | 98.847 | 0.009 | 99.780 |
| 19 | 0.035 | 98.925 | 0.006 | 99.805 |
| 20 | 0.030 | 99.030 | 0.013 | 99.703 |
| 21 | 0.034 | 98.911 | 0.010 | 99.724 |
| 22 | 0.029 | 99.025 | 0.008 | 99.780 |
| 23 | 0.030 | 99.094 | 0.009 | 99.752 |
| 24 | 0.027 | 99.118 | 0.012 | 99.679 |
| 25 | 0.025 | 99.168 | 0.007 | 99.791 |
| 26 | 0.027 | 99.130 | 0.011 | 99.724 |
| 27 | 0.026 | 99.180 | 0.008 | 99.780 |
| 28 | 0.024 | 99.210 | 0.006 | 99.808 |
| 29 | 0.022 | 99.313 | 0.011 | 99.710 |
| 30 | 0.024 | 99.262 | 0.007 | 99.822 |
| 31 | 0.023 | 99.290 | 0.011 | 99.724 |
| 32 | 0.021 | 99.360 | 0.009 | 99.766 |
| 33 | 0.023 | 99.300 | 0.011 | 99.735 |
| 34 | 0.022 | 99.344 | 0.005 | 99.829 |
| 35 | 0.021 | 99.347 | 0.008 | 99.787 |
| 36 | 0.023 | 99.310 | 0.009 | 99.770 |
| 37 | 0.021 | 99.372 | 0.012 | 99.738 |
| 38 | 0.022 | 99.356 | 0.008 | 99.777 |
| 39 | 0.021 | 99.384 | 0.007 | 99.812 |
| 40 | 0.020 | 99.402 | 0.006 | 99.836 |
| 41 | 0.019 | 99.444 | 0.008 | 99.787 |
| 42 | 0.019 | 99.462 | 0.017 | 99.696 |
| 43 | 0.021 | 99.397 | 0.008 | 99.784 |
| 44 | 0.020 | 99.430 | 0.007 | 99.829 |
| 45 | 0.020 | 99.443 | 0.008 | 99.805 |
| 46 | 0.020 | 99.437 | 0.009 | 99.801 |
| 47 | 0.019 | 99.432 | 0.010 | 99.791 |
| 48 | 0.022 | 99.410 | 0.008 | 99.787 |
| 49 | 0.020 | 99.452 | 0.007 | 99.836 |
| 50 | 0.019 | 99.463 | 0.008 | 99.801 |
| 51 | 0.019 | 99.438 | 0.008 | 99.833 |
| 52 | 0.019 | 99.434 | 0.006 | 99.850 |
| 53 | 0.019 | 99.481 | 0.009 | 99.798 |
| 54 | 0.017 | 99.519 | 0.008 | 99.826 |
| 55 | 0.021 | 99.422 | 0.009 | 99.798 |
| 56 | 0.018 | 99.499 | 0.024 | 99.508 |
| 57 | 0.018 | 99.512 | 0.006 | 99.833 |
| 58 | 0.019 | 99.452 | 0.008 | 99.791 |
| 59 | 0.017 | 99.502 | 0.009 | 99.784 |
| 60 | 0.017 | 99.522 | 0.011 | 99.756 |
| 61 | 0.019 | 99.478 | 0.007 | 99.826 |
| 62 | 0.016 | 99.562 | 0.011 | 99.787 |
| 63 | 0.018 | 99.497 | 0.009 | 99.784 |
| 64 | 0.016 | 99.512 | 0.014 | 99.717 |
| 65 | 0.018 | 99.521 | 0.010 | 99.766 |
| 66 | 0.021 | 99.485 | 0.010 | 99.812 |
| 67 | 0.019 | 99.456 | 0.010 | 99.759 |
| 68 | 0.017 | 99.505 | 0.007 | 99.846 |
| 69 | 0.017 | 99.519 | 0.012 | 99.780 |
| 70 | 0.019 | 99.519 | 0.008 | 99.826 |
| 71 | 0.020 | 99.466 | 0.009 | 99.822 |
| 72 | 0.017 | 99.584 | 0.010 | 99.815 |
| 73 | 0.017 | 99.563 | 0.011 | 99.812 |
| 74 | 0.014 | 99.605 | 0.011 | 99.815 |
| 75 | 0.015 | 99.590 | 0.011 | 99.801 |
| 76 | 0.020 | 99.490 | 0.015 | 99.717 |
| 77 | 0.018 | 99.532 | 0.008 | 99.815 |
| 78 | 0.016 | 99.590 | 0.009 | 99.829 |
| 79 | 0.015 | 99.559 | 0.017 | 99.679 |
| 80 | 0.017 | 99.555 | 0.009 | 99.819 |
| 81 | 0.016 | 99.582 | 0.014 | 99.714 |
| 82 | 0.015 | 99.590 | 0.012 | 99.780 |
| 83 | 0.019 | 99.519 | 0.009 | 99.819 |
| 84 | 0.020 | 99.497 | 0.012 | 99.819 |
| 85 | 0.014 | 99.627 | 0.011 | 99.829 |
| 86 | 0.015 | 99.616 | 0.014 | 99.766 |
| 87 | 0.015 | 99.578 | 0.018 | 99.763 |
| 88 | 0.017 | 99.568 | 0.012 | 99.815 |
| 89 | 0.016 | 99.578 | 0.016 | 99.717 |
| 90 | 0.016 | 99.593 | 0.013 | 99.756 |
| 91 | 0.017 | 99.568 | 0.012 | 99.812 |
| 92 | 0.016 | 99.588 | 0.013 | 99.738 |
| 93 | 0.019 | 99.547 | 0.017 | 99.777 |
| 94 | 0.016 | 99.591 | 0.013 | 99.773 |
| 95 | 0.020 | 99.510 | 0.013 | 99.770 |
| 96 | 0.019 | 99.568 | 0.014 | 99.805 |
| 97 | 0.017 | 99.582 | 0.032 | 99.637 |
| 98 | 0.017 | 99.575 | 0.016 | 99.745 |
| 99 | 0.016 | 99.612 | 0.012 | 99.794 |
| 100 | 0.017 | 99.602 | 0.017 | 99.742 |