

Sheet1

| epoch | training accuracy | training loss | training error | validation accuracy | validation loss | validation error | learning rate | time  | test accuracy | test loss | test error |
|-------|-------------------|---------------|----------------|---------------------|-----------------|------------------|---------------|-------|---------------|-----------|------------|
| 1     | 0.2845            | 1.7991        | 1.5777         | 0.355               | 1.7516          | 1.5152           | 0.001         | 2611  |               |           |            |
| 2     | 0.3473            | 2.1093        | 1.6474         | 0.363               | 1.7198          | 1.5039           | 0.001         | 6165  |               |           |            |
| 3     | 0.3807            | 1.5476        | 1.4051         | 0.3739              | 1.6873          | 1.4913           | 0.001         | 8724  |               |           |            |
| 4     | 0.3902            | 1.7103        | 1.4958         | 0.3904              | 1.6616          | 1.4779           | 0.001         | 11274 |               |           |            |
| 5     | 0.4196            | 1.6942        | 1.3886         | 0.4178              | 1.6396          | 1.4585           | 0.001         | 49109 |               |           |            |
| 6     | 0.4384            | 1.5985        | 1.4107         | 0.4333              | 1.6263          | 1.4411           | 0.001         | 51663 |               |           |            |
| 7     | 0.4353            | 1.5204        | 1.3076         | 0.4488              | 1.5965          | 1.4163           | 0.001         | 54218 |               |           |            |
| 8     | 0.4518            | 1.3859        | 1.2897         | 0.46                | 1.5623          | 1.387            | 0.001         | 56774 |               |           |            |
| 9     | 0.4417            | 1.8749        | 1.4705         | 0.4708              | 1.525           | 1.3534           | 0.001         | 59481 |               |           |            |
| 10    | 0.444             | 1.6823        | 1.3967         | 0.4925              | 1.4684          | 1.3194           | 0.001         | 65861 | 0.501         | 1.4532    | 1.3102     |