Worm / No‑Worm Training Report

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| Visual verification of input data | [add your own notes] |
| Data splits | Train: 8691, Validation: 2173 (20%) |
| Input image size | 101×101 pixels |
| Image preprocessing | CLAHE → median‑blur(3) → Canny edges blended (0.8/0.2) |
| Logistic regression parameters | learning‑rate=0.1, epochs=200, batch=256, weights init ~𝒩(0,0.01) |
| Optimizer | Stochastic Gradient Descent (hand‑coded) |
| Confusion matrix | [[988 112]  [168 905]] |
| Training time (s) | 180.90 |
| Testing time (s) | 0.0305 |
| Validation accuracy | 0.8711 |
| Classification report | precision recall f1-score support   0 0.8547 0.8982 0.8759 1100  1 0.8899 0.8434 0.8660 1073   accuracy 0.8711 2173  macro avg 0.8723 0.8708 0.8710 2173 weighted avg 0.8721 0.8711 0.8710 2173 |