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| --- | --- | --- | --- | --- |
| EC DBNs |  |  |  |  |
| Dataset | MNISTv1 | MNISTv2 | MNISTv2 | ORHD |
| Toolbox | MATLAB | **R** | **R** | Python |
| Pre-Processing? | ✓ | ✗ | ✗ | ✗ |
| Pre-Feature Extraction? | ✓ | ✗ | ✗ | ✗ |
| #Nodes in Input Layer | 54 | 784 | 784 | 64 |
| #Nodes in Hidden Layers | 100 — 100 | 350 — 350 | 400 — 400 — 400 | 256 — 512 |
| #Nodes in Output Layer | 10 | 10 | 10 | 10 |
| Activation Function | Sigmoid | Sigmoid | Sigmoid | Sigmoid |
| Learning Rate | **0.01** | **0.1** | **0.1** | 0.06 |
| #Epochs | ? | 1000 | 1000 | 20 |
| #Batches | ? | 10 | 10 | 10 |
| Evaluation Metric | Accuracy | Accuracy | Accuracy | F1-Score |