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Licensed to: Leo Milea (Evaluation)

Expiration Date: 2022-07-31 80 days left

Maximum File Size: 30 GB

Maximum Instances: unlimited

Maximum Attributes: unlimited

Maximum Classes: unlimited

Connected to: daimensions.brainome.ai (local execution)

**Command:**

brainome -f NN -nosplit -o mem.py train\_data.csv

Start Time: 05/12/2022, 21:18 PDT

**Pre-training Measurements**

Data:

Input: train\_data.csv

Target Column: 1.000000000000000000e+00

Number of instances: 5007

Number of attributes: 12288 out of 12288

Number of classes: 2

Class Balance:

1.000000000000000000e+00: 77.77%

0.000000000000000000e+00: 22.23%

Learnability:

Best guess accuracy: 77.77%

Data Sufficiency: Maybe enough data to generalize. [yellow]

Capacity Progression at [ 5%, 10%, 20%, 40%, 80%, 100% ]

8, 9, 10, 10, 11, 11

RF NN DT SVM

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Expected Training Accuracy: 100.00% ---- 100.00% ----

Expected Validation Accuracy: 93.77% ---- 66.65% ----

Recommendations:

Warning: Attribute count greater than number of instances. Collect more data to get better results.

If predictor accuracy is insufficient, try using the effort option -e with a value of 5 or more to increase training time.

**Predictor:**

Classifier Type: Neural Network

System Type: Binary classifier

Training / Validation Split: Unable to split dataset. The predictor was trained and evaluated on the same data.

Accuracy:

Best-guess accuracy: 77.77%

Combined Model Accuracy: 93.46% (4680/5007 correct)

Model Capacity (MEC): 76 bits

Generalization Ratio: 47.06 bits/bit

Percent of Data Memorized: 4.70%

Resilience to Noise: -1.79 dB

**Messages:**

Writing NN predictor file mem.py

End Time: 05/12/2022, 22:05 PDT

Runtime Duration: 47m 47s