3-fold cross validation:

Iteration 1, loss = inf
Validation score: 0.730000
Iteration 2, loss = inf
Validation score: 0.414500
Iteration 3, loss = inf
Validation score: 0.401000
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.746429
Iteration 2, loss = inf
Validation score: 0.733673
Iteration 3, loss = inf
Validation score: 0.773469
Iteration 4, loss = inf
Validation score: 0.739286
Iteration 5, loss = inf
Validation score: 0.748980
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.719898
Iteration 2, loss = inf
Validation score: 0.757653
Iteration 3, loss = inf
Validation score: 0.409184
Iteration 4, loss = inf
Validation score: 0.759694
Iteration 5, loss = inf
Validation score: 0.796429
Iteration 6, loss = inf
Validation score: 0.383673
Iteration 7, loss = inf
Validation score: 0.754082
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.744898
Iteration 2, loss = inf
Validation score: 0.406633
Iteration 3, loss = inf
Validation score: 0.424490
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.736735
Iteration 2, loss = inf
Validation score: 0.728061
Iteration 3, loss = inf
Validation score: 0.789796

```
Iteration 4, loss = inf
Validation score: 0.761735
Iteration 5, loss = inf
Validation score: 0.768878
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.747449
Iteration 2, loss = inf
Validation score: 0.727041
Iteration 3, loss = inf
Validation score: 0.729082
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.732143
Iteration 2, loss = inf
Validation score: 0.758163
Iteration 3, loss = inf
Validation score: 0.747959
Iteration 4, loss = inf
Validation score: 0.759694
Iteration 5, loss = inf
Validation score: 0.758673
Iteration 6, loss = inf
Validation score: 0.767347
Iteration 7, loss = inf
Validation score: 0.741327
Iteration 8, loss = inf
Validation score: 0.787755
Iteration 9, loss = inf
Validation score: 0.772449
Iteration 10, loss = inf
Validation score: 0.786224
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.750510
Iteration 2, loss = inf
Validation score: 0.761735
Iteration 3, loss = inf
Validation score: 0.751020
Iteration 4, loss = inf
Validation score: 0.811224
Iteration 5, loss = inf
Validation score: 0.759184
Iteration 6, loss = inf
Validation score: 0.353571
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.725510
Iteration 2, loss = inf
Validation score: 0.721429
Iteration 3, loss = inf
Validation score: 0.397449
```

```
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.631122
Iteration 2, loss = inf
Validation score: 0.746939
Iteration 3, loss = inf
Validation score: 0.394898
Iteration 4, loss = inf
Validation score: 0.772959
Iteration 5, loss = inf
Validation score: 0.765816
Iteration 6, loss = inf
Validation score: 0.760714
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.763776
Iteration 2, loss = inf
Validation score: 0.399490
Iteration 3, loss = inf
Validation score: 0.760714
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.364286
Iteration 2, loss = inf
Validation score: 0.713776
Iteration 3, loss = inf
Validation score: 0.753571
Iteration 4, loss = inf
Validation score: 0.385714
Iteration 5, loss = inf
Validation score: 0.791837
Iteration 6, loss = inf
Validation score: 0.734184
Iteration 7, loss = inf
Validation score: 0.424490
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.765306
Iteration 2, loss = inf
Validation score: 0.731122
Iteration 3, loss = inf
Validation score: 0.744898
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.391837
Iteration 2, loss = inf
Validation score: 0.376531
Iteration 3, loss = inf
Validation score: 0.776531
Iteration 4, loss = inf
Validation score: 0.801020
Iteration 5, loss = inf
```

```
Validation score: 0.806122
Iteration 6, loss = inf
Validation score: 0.783163
Iteration 7, loss = inf
Validation score: 0.801531
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.768878
Iteration 2, loss = inf
Validation score: 0.728571
Iteration 3, loss = inf
Validation score: 0.731633
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.741837
Iteration 2, loss = inf
Validation score: 0.742857
Iteration 3, loss = inf
Validation score: 0.372449
Iteration 4, loss = inf
Validation score: 0.754592
Iteration 5, loss = inf
Validation score: 0.766837
Iteration 6, loss = inf
Validation score: 0.591327
Iteration 7, loss = inf
Validation score: 0.735714
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.768878
Iteration 2, loss = inf
Validation score: 0.432143
Iteration 3, loss = inf
Validation score: 0.741327
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.801020
Iteration 2, loss = inf
Validation score: 0.801020
Iteration 3, loss = inf
Validation score: 0.807143
Iteration 4, loss = inf
Validation score: 0.811735
Iteration 5, loss = inf
Validation score: 0.729082
Iteration 6, loss = inf
Validation score: 0.805612
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.738776
Iteration 2, loss = inf
Validation score: 0.420408
```

```
Iteration 3, loss = inf
Validation score: 0.372449
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.760204
Iteration 2, loss = inf
Validation score: 0.404082
Iteration 3, loss = inf
Validation score: 0.756122
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.756122
Iteration 2, loss = inf
Validation score: 0.789796
Iteration 3, loss = inf
Validation score: 0.720918
Iteration 4, loss = inf
Validation score: 0.780102
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.776020
Iteration 2, loss = inf
Validation score: 0.739286
Iteration 3, loss = inf
Validation score: 0.774490
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.751531
Iteration 2, loss = inf
Validation score: 0.790816
Iteration 3, loss = inf
Validation score: 0.809694
Iteration 4, loss = inf
Validation score: 0.768367
Iteration 5, loss = inf
Validation score: 0.781633
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.758673
Iteration 2, loss = inf
Validation score: 0.773980
Iteration 3, loss = inf
Validation score: 0.761735
Iteration 4, loss = inf
Validation score: 0.748469
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.785204
Iteration 2, loss = inf
Validation score: 0.726531
Iteration 3, loss = inf
```

```
Validation score: 0.757653
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.778061
Iteration 2, loss = inf
Validation score: 0.379082
Iteration 3, loss = inf
Validation score: 0.767857
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.714796
Iteration 2, loss = inf
Validation score: 0.770918
Iteration 3, loss = inf
Validation score: 0.727551
Iteration 4, loss = inf
Validation score: 0.778571
Iteration 5, loss = inf
Validation score: 0.770408
Iteration 6, loss = inf
Validation score: 0.726531
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.777551
Iteration 2, loss = inf
Validation score: 0.379082
Iteration 3, loss = inf
Validation score: 0.738265
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.778571
Iteration 2, loss = inf
Validation score: 0.757143
Iteration 3, loss = inf
Validation score: 0.753571
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.773980
Iteration 2, loss = inf
Validation score: 0.755102
Iteration 3, loss = inf
Validation score: 0.746429
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.750510
Iteration 2, loss = inf
Validation score: 0.376531
Iteration 3, loss = inf
Validation score: 0.729592
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
```

```
Iteration 1, loss = inf
Validation score: 0.382653
Iteration 2, loss = inf
Validation score: 0.768878
Iteration 3, loss = inf
Validation score: 0.754592
Iteration 4, loss = inf
Validation score: 0.753571
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.719898
Iteration 2, loss = inf
Validation score: 0.748980
Iteration 3, loss = inf
Validation score: 0.795408
Iteration 4, loss = inf
Validation score: 0.394898
Iteration 5, loss = inf
Validation score: 0.793878
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.776531
Iteration 2, loss = inf
Validation score: 0.734184
Iteration 3, loss = inf
Validation score: 0.778061
Iteration 4, loss = inf
Validation score: 0.377551
Iteration 5, loss = inf
Validation score: 0.798469
Iteration 6, loss = inf
Validation score: 0.738776
Iteration 7, loss = inf
Validation score: 0.736224
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.416327
Iteration 2, loss = inf
Validation score: 0.798980
Iteration 3, loss = inf
Validation score: 0.750000
Iteration 4, loss = inf
Validation score: 0.793878
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.763265
Iteration 2, loss = inf
Validation score: 0.792347
Iteration 3, loss = inf
Validation score: 0.389286
Iteration 4, loss = inf
Validation score: 0.800510
Iteration 5, loss = inf
```

```
Validation score: 0.396429
Iteration 6, loss = inf
Validation score: 0.754592
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.375510
Iteration 2, loss = inf
Validation score: 0.819898
Iteration 3, loss = inf
Validation score: 0.384184
Iteration 4, loss = inf
Validation score: 0.791327
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.763265
Iteration 2, loss = inf
Validation score: 0.712755
Iteration 3, loss = inf
Validation score: 0.747959
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.768367
Iteration 2, loss = inf
Validation score: 0.713265
Iteration 3, loss = inf
Validation score: 0.756122
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.706633
Iteration 2, loss = inf
Validation score: 0.754082
Iteration 3, loss = inf
Validation score: 0.765306
Iteration 4, loss = inf
Validation score: 0.763776
Iteration 5, loss = inf
Validation score: 0.736735
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.760714
Iteration 2, loss = inf
Validation score: 0.767857
Iteration 3, loss = inf
Validation score: 0.792857
Iteration 4, loss = inf
Validation score: 0.642347
Iteration 5, loss = inf
Validation score: 0.755102
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.715306
```

```
Iteration 2, loss = inf
Validation score: 0.745408
Iteration 3, loss = inf
Validation score: 0.710714
Iteration 4, loss = inf
Validation score: 0.794388
Iteration 5, loss = inf
Validation score: 0.380612
Iteration 6, loss = inf
Validation score: 0.419388
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.754082
Iteration 2, loss = inf
Validation score: 0.779082
Iteration 3, loss = inf
Validation score: 0.790306
Iteration 4, loss = inf
Validation score: 0.801531
Iteration 5, loss = inf
Validation score: 0.786735
Iteration 6, loss = inf
Validation score: 0.757653
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.710204
Iteration 2, loss = inf
Validation score: 0.416837
Iteration 3, loss = inf
Validation score: 0.722959
Iteration 4, loss = inf
Validation score: 0.742347
Iteration 5, loss = inf
Validation score: 0.741837
Iteration 6, loss = inf
Validation score: 0.793878
Iteration 7, loss = inf
Validation score: 0.792347
Iteration 8, loss = inf
Validation score: 0.745408
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.787245
Iteration 2, loss = inf
Validation score: 0.799490
Iteration 3, loss = inf
Validation score: 0.809694
Iteration 4, loss = inf
Validation score: 0.755612
Iteration 5, loss = inf
Validation score: 0.795918
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
```

```
Validation score: 0.740306
Iteration 2, loss = inf
Validation score: 0.749490
Iteration 3, loss = inf
Validation score: 0.759184
Iteration 4, loss = inf
Validation score: 0.423469
Iteration 5, loss = inf
Validation score: 0.762755
Iteration 6, loss = inf
Validation score: 0.780612
Iteration 7, loss = inf
Validation score: 0.367857
Iteration 8, loss = inf
Validation score: 0.403571
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.706122
Iteration 2, loss = inf
Validation score: 0.766837
Iteration 3, loss = inf
Validation score: 0.795408
Iteration 4, loss = inf
Validation score: 0.797449
Iteration 5, loss = inf
Validation score: 0.771939
Iteration 6, loss = inf
Validation score: 0.759184
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.788265
Iteration 2, loss = inf
Validation score: 0.750510
Iteration 3, loss = inf
Validation score: 0.380102
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.704082
Iteration 2, loss = inf
Validation score: 0.744388
Iteration 3, loss = inf
Validation score: 0.708673
Iteration 4, loss = inf
Validation score: 0.750510
Iteration 5, loss = inf
Validation score: 0.793878
Iteration 6, loss = inf
Validation score: 0.414286
Iteration 7, loss = inf
Validation score: 0.750510
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.783163
```

```
Iteration 2, loss = inf
Validation score: 0.778571
Iteration 3, loss = inf
Validation score: 0.714796
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.712755
Iteration 2, loss = inf
Validation score: 0.756122
Iteration 3, loss = inf
Validation score: 0.730102
Iteration 4, loss = inf
Validation score: 0.734694
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
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correct: 2932
wrong: 1068
Accuracy: 0.73 (+/- 0.02) [Multi Layers Perceptron]
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model loss

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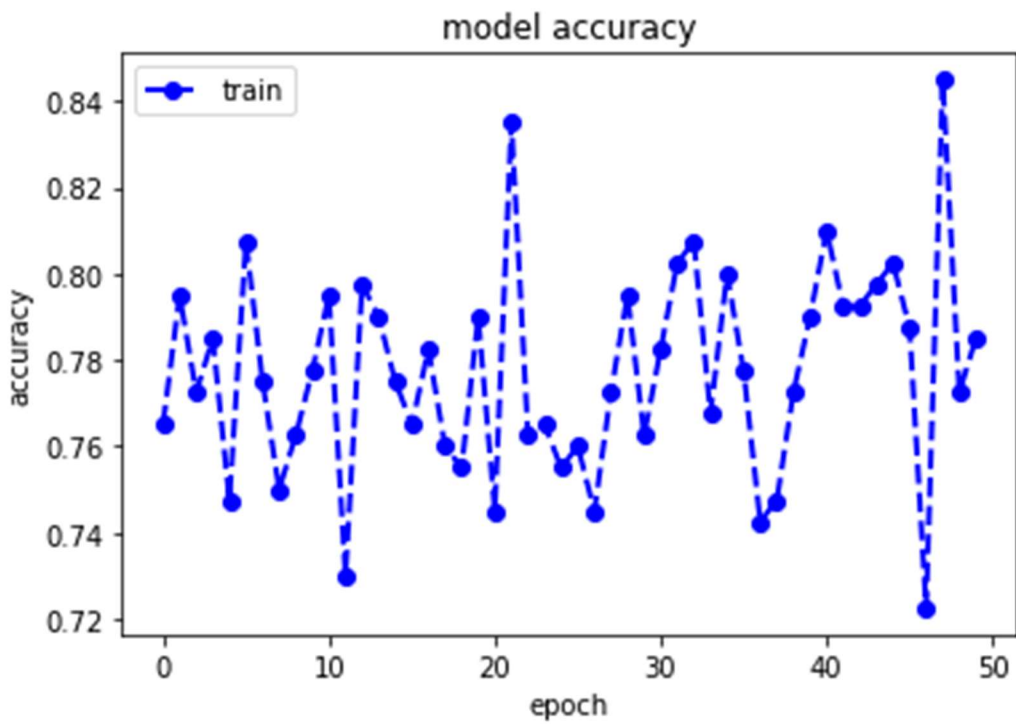
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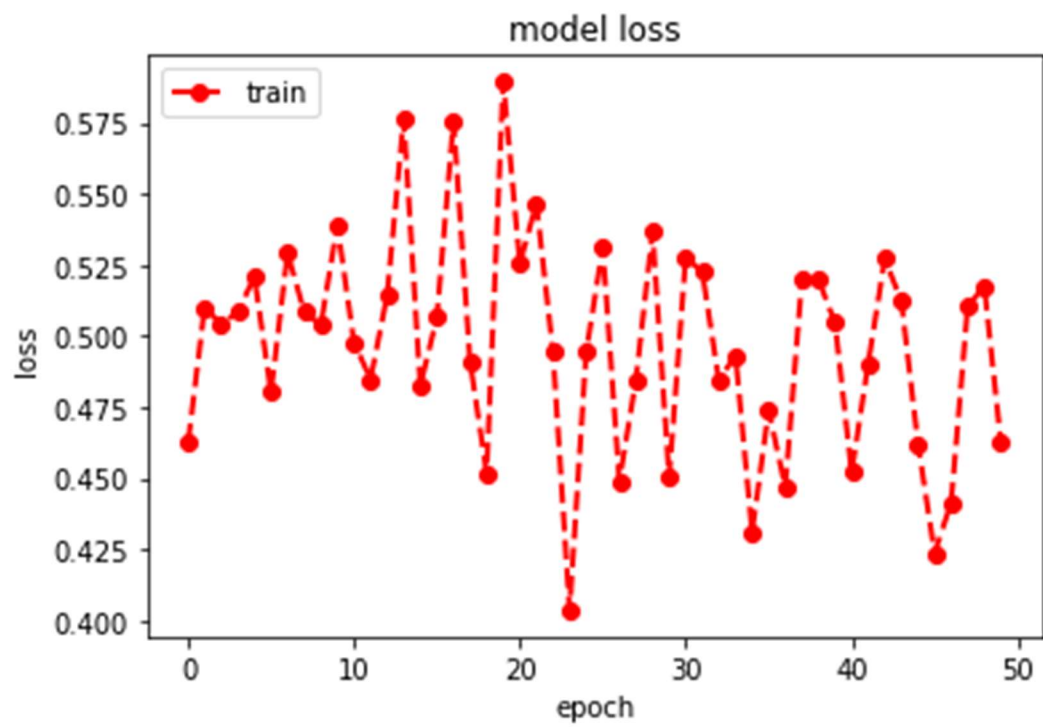
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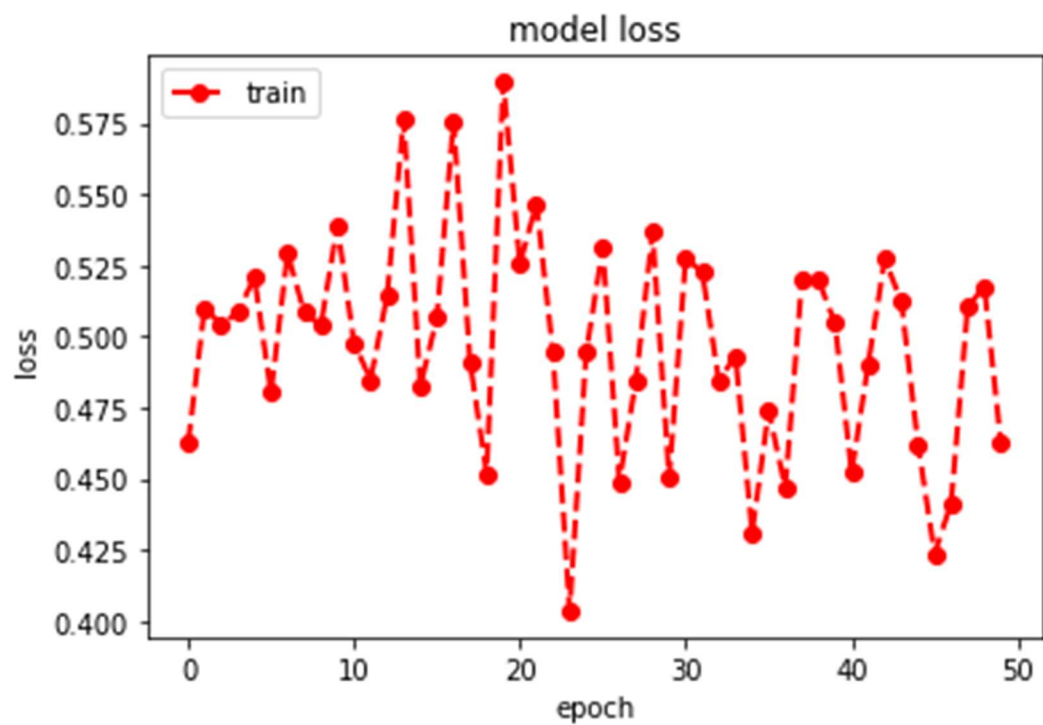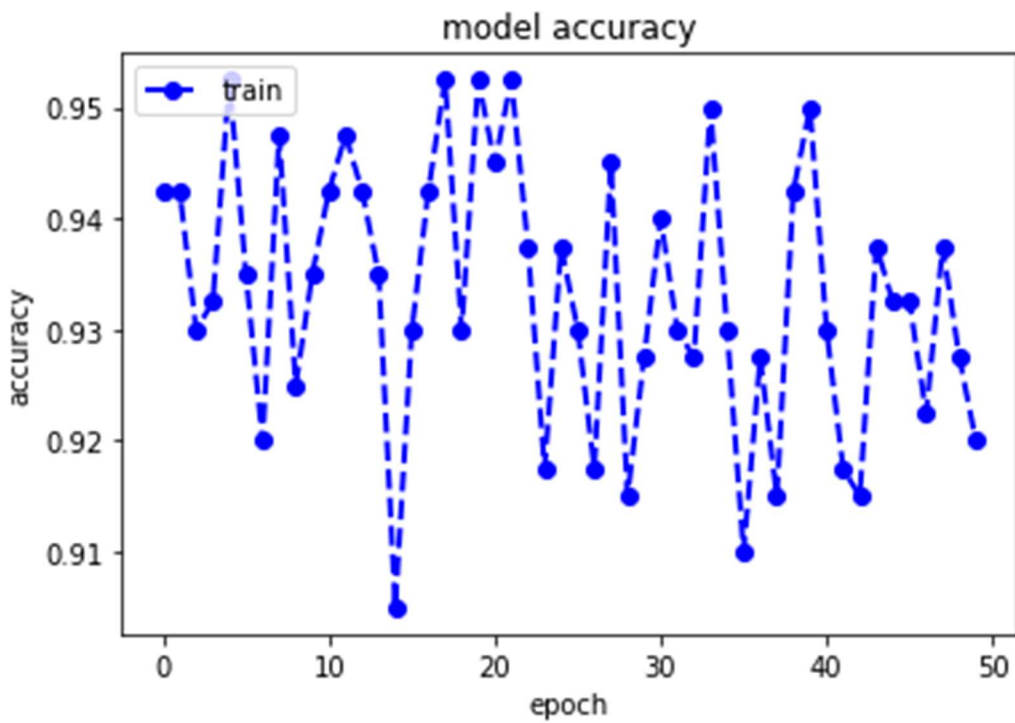
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0.0 0.0
correct: 3998
wrong: 2
Accuracy: 1.00 (+/- 0.01) [Random Forest]
```

model accuracy

model loss

```
Iteration 1, loss = inf
Validation score: 0.784500
Iteration 2, loss = inf
Validation score: 0.771500
Iteration 3, loss = inf
Validation score: 0.810000
Iteration 4, loss = inf
Validation score: 0.743500
```

```
Iteration 5, loss = inf
Validation score: 0.813500
Iteration 6, loss = inf
Validation score: 0.811500
Iteration 7, loss = inf
Validation score: 0.795500
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.732143
Iteration 2, loss = inf
Validation score: 0.797959
Iteration 3, loss = inf
Validation score: 0.787245
Iteration 4, loss = inf
Validation score: 0.377041
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.736735
Iteration 2, loss = inf
Validation score: 0.773980
Iteration 3, loss = inf
Validation score: 0.789286
Iteration 4, loss = inf
Validation score: 0.729592
Iteration 5, loss = inf
Validation score: 0.430612
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.418878
Iteration 2, loss = inf
Validation score: 0.422959
Iteration 3, loss = inf
Validation score: 0.790816
Iteration 4, loss = inf
Validation score: 0.760204
Iteration 5, loss = inf
Validation score: 0.742857
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.773980
Iteration 2, loss = inf
Validation score: 0.717857
Iteration 3, loss = inf
Validation score: 0.393367
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.783163
Iteration 2, loss = inf
Validation score: 0.753061
Iteration 3, loss = inf
Validation score: 0.725000
```

```
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.778571
Iteration 2, loss = inf
Validation score: 0.787245
Iteration 3, loss = inf
Validation score: 0.736224
Iteration 4, loss = inf
Validation score: 0.734184
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.723469
Iteration 2, loss = inf
Validation score: 0.734184
Iteration 3, loss = inf
Validation score: 0.730102
Iteration 4, loss = inf
Validation score: 0.748980
Iteration 5, loss = inf
Validation score: 0.768878
Iteration 6, loss = inf
Validation score: 0.792857
Iteration 7, loss = inf
Validation score: 0.769388
Iteration 8, loss = inf
Validation score: 0.775000
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.402041
Iteration 2, loss = inf
Validation score: 0.781633
Iteration 3, loss = inf
Validation score: 0.756633
Iteration 4, loss = inf
Validation score: 0.795918
Iteration 5, loss = inf
Validation score: 0.740306
Iteration 6, loss = inf
Validation score: 0.762755
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.761224
Iteration 2, loss = inf
Validation score: 0.794388
Iteration 3, loss = inf
Validation score: 0.389286
Iteration 4, loss = inf
Validation score: 0.743367
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.361224
Iteration 2, loss = inf
```

```
Validation score: 0.787755
Iteration 3, loss = inf
Validation score: 0.806122
Iteration 4, loss = inf
Validation score: 0.714796
Iteration 5, loss = inf
Validation score: 0.780102
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.775510
Iteration 2, loss = inf
Validation score: 0.782653
Iteration 3, loss = inf
Validation score: 0.718878
Iteration 4, loss = inf
Validation score: 0.779592
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.736735
Iteration 2, loss = inf
Validation score: 0.377551
Iteration 3, loss = inf
Validation score: 0.753571
Iteration 4, loss = inf
Validation score: 0.739286
Iteration 5, loss = inf
Validation score: 0.388265
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.738265
Iteration 2, loss = inf
Validation score: 0.743878
Iteration 3, loss = inf
Validation score: 0.778061
Iteration 4, loss = inf
Validation score: 0.773469
Iteration 5, loss = inf
Validation score: 0.436224
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.776020
Iteration 2, loss = inf
Validation score: 0.730102
Iteration 3, loss = inf
Validation score: 0.389286
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.768367
Iteration 2, loss = inf
Validation score: 0.721429
Iteration 3, loss = inf
Validation score: 0.733163
```

```
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.708673
Iteration 2, loss = inf
Validation score: 0.790816
Iteration 3, loss = inf
Validation score: 0.763776
Iteration 4, loss = inf
Validation score: 0.796939
Iteration 5, loss = inf
Validation score: 0.740306
Iteration 6, loss = inf
Validation score: 0.761735
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.388265
Iteration 2, loss = inf
Validation score: 0.772449
Iteration 3, loss = inf
Validation score: 0.744898
Iteration 4, loss = inf
Validation score: 0.750000
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.744388
Iteration 2, loss = inf
Validation score: 0.778571
Iteration 3, loss = inf
Validation score: 0.746429
Iteration 4, loss = inf
Validation score: 0.731122
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.742347
Iteration 2, loss = inf
Validation score: 0.402551
Iteration 3, loss = inf
Validation score: 0.766327
Iteration 4, loss = inf
Validation score: 0.386224
Iteration 5, loss = inf
Validation score: 0.760714
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.753061
Iteration 2, loss = inf
Validation score: 0.755102
Iteration 3, loss = inf
Validation score: 0.758163
Iteration 4, loss = inf
Validation score: 0.773469
Iteration 5, loss = inf
```

```
Validation score: 0.415816
Iteration 6, loss = inf
Validation score: 0.793878
Iteration 7, loss = inf
Validation score: 0.750510
Iteration 8, loss = inf
Validation score: 0.653061
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.751531
Iteration 2, loss = inf
Validation score: 0.719898
Iteration 3, loss = inf
Validation score: 0.753061
Iteration 4, loss = inf
Validation score: 0.772449
Iteration 5, loss = inf
Validation score: 0.793878
Iteration 6, loss = inf
Validation score: 0.726020
Iteration 7, loss = inf
Validation score: 0.790816
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.748469
Iteration 2, loss = inf
Validation score: 0.717347
Iteration 3, loss = inf
Validation score: 0.627041
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.759694
Iteration 2, loss = inf
Validation score: 0.781122
Iteration 3, loss = inf
Validation score: 0.786735
Iteration 4, loss = inf
Validation score: 0.727041
Iteration 5, loss = inf
Validation score: 0.749490
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.740816
Iteration 2, loss = inf
Validation score: 0.742857
Iteration 3, loss = inf
Validation score: 0.790306
Iteration 4, loss = inf
Validation score: 0.742347
Iteration 5, loss = inf
Validation score: 0.747959
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
```

```
Iteration 1, loss = inf
Validation score: 0.779082
Iteration 2, loss = inf
Validation score: 0.708163
Iteration 3, loss = inf
Validation score: 0.791837
Iteration 4, loss = inf
Validation score: 0.723980
Iteration 5, loss = inf
Validation score: 0.805612
Iteration 6, loss = inf
Validation score: 0.714796
Iteration 7, loss = inf
Validation score: 0.787245
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.791327
Iteration 2, loss = inf
Validation score: 0.401531
Iteration 3, loss = inf
Validation score: 0.721939
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.394388
Iteration 2, loss = inf
Validation score: 0.389286
Iteration 3, loss = inf
Validation score: 0.800510
Iteration 4, loss = inf
Validation score: 0.730612
Iteration 5, loss = inf
Validation score: 0.740306
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.742347
Iteration 2, loss = inf
Validation score: 0.756122
Iteration 3, loss = inf
Validation score: 0.396939
Iteration 4, loss = inf
Validation score: 0.794388
Iteration 5, loss = inf
Validation score: 0.745408
Iteration 6, loss = inf
Validation score: 0.776020
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.729592
Iteration 2, loss = inf
Validation score: 0.792347
Iteration 3, loss = inf
Validation score: 0.770918
Iteration 4, loss = inf
```

```
Validation score: 0.381122
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.800510
Iteration 2, loss = inf
Validation score: 0.783673
Iteration 3, loss = inf
Validation score: 0.744388
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.730612
Iteration 2, loss = inf
Validation score: 0.757653
Iteration 3, loss = inf
Validation score: 0.798980
Iteration 4, loss = inf
Validation score: 0.417347
Iteration 5, loss = inf
Validation score: 0.800000
Iteration 6, loss = inf
Validation score: 0.779082
Iteration 7, loss = inf
Validation score: 0.811224
Iteration 8, loss = inf
Validation score: 0.760714
Iteration 9, loss = inf
Validation score: 0.801531
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.762245
Iteration 2, loss = inf
Validation score: 0.731633
Iteration 3, loss = inf
Validation score: 0.732143
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.758673
Iteration 2, loss = inf
Validation score: 0.712755
Iteration 3, loss = inf
Validation score: 0.750510
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.762245
Iteration 2, loss = inf
Validation score: 0.722959
Iteration 3, loss = inf
Validation score: 0.725510
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.772959
```

```
Iteration 2, loss = inf
Validation score: 0.761224
Iteration 3, loss = inf
Validation score: 0.430612
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.402551
Iteration 2, loss = inf
Validation score: 0.783673
Iteration 3, loss = inf
Validation score: 0.377551
Iteration 4, loss = inf
Validation score: 0.773980
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.726020
Iteration 2, loss = inf
Validation score: 0.786735
Iteration 3, loss = inf
Validation score: 0.750510
Iteration 4, loss = inf
Validation score: 0.750000
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.757143
Iteration 2, loss = inf
Validation score: 0.728571
Iteration 3, loss = inf
Validation score: 0.751531
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.732653
Iteration 2, loss = inf
Validation score: 0.371429
Iteration 3, loss = inf
Validation score: 0.738265
Iteration 4, loss = inf
Validation score: 0.723980
Iteration 5, loss = inf
Validation score: 0.744388
Iteration 6, loss = inf
Validation score: 0.378571
Iteration 7, loss = inf
Validation score: 0.773980
Iteration 8, loss = inf
Validation score: 0.732143
Iteration 9, loss = inf
Validation score: 0.442857
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.762245
Iteration 2, loss = inf
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Validation score: 0.755612
Iteration 3, loss = inf
Validation score: 0.741837
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.754592
Iteration 2, loss = inf
Validation score: 0.780612
Iteration 3, loss = inf
Validation score: 0.785714
Iteration 4, loss = inf
Validation score: 0.763776
Iteration 5, loss = inf
Validation score: 0.781122
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.775000
Iteration 2, loss = inf
Validation score: 0.738776
Iteration 3, loss = inf
Validation score: 0.794388
Iteration 4, loss = inf
Validation score: 0.742857
Iteration 5, loss = inf
Validation score: 0.388776
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.769388
Iteration 2, loss = inf
Validation score: 0.711224
Iteration 3, loss = inf
Validation score: 0.787245
Iteration 4, loss = inf
Validation score: 0.803571
Iteration 5, loss = inf
Validation score: 0.772449
Iteration 6, loss = inf
Validation score: 0.728571
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.779082
Iteration 2, loss = inf
Validation score: 0.766837
Iteration 3, loss = inf
Validation score: 0.759184
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.776020
Iteration 2, loss = inf
Validation score: 0.360204
Iteration 3, loss = inf
Validation score: 0.745408
```

Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.707143
Iteration 2, loss = inf
Validation score: 0.391327
Iteration 3, loss = inf
Validation score: 0.738776
Iteration 4, loss = inf
Validation score: 0.725510
Iteration 5, loss = inf
Validation score: 0.803061
Iteration 6, loss = inf
Validation score: 0.794898
Iteration 7, loss = inf
Validation score: 0.785204
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.796939
Iteration 2, loss = inf
Validation score: 0.792347
Iteration 3, loss = inf
Validation score: 0.806122
Iteration 4, loss = inf
Validation score: 0.793878
Iteration 5, loss = inf
Validation score: 0.760714
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.743878
Iteration 2, loss = inf
Validation score: 0.338776
Iteration 3, loss = inf
Validation score: 0.775510
Iteration 4, loss = inf
Validation score: 0.755102
Iteration 5, loss = inf
Validation score: 0.766837
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.716837
Iteration 2, loss = inf
Validation score: 0.788265
Iteration 3, loss = inf
Validation score: 0.359184
Iteration 4, loss = inf
Validation score: 0.766837
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
Iteration 1, loss = inf
Validation score: 0.734694
Iteration 2, loss = inf
Validation score: 0.778061
Iteration 3, loss = inf

```
Validation score: 0.719898
Iteration 4, loss = inf
Validation score: 0.760204
Validation score did not improve more than tol=0.000000 for 1 consecutive
epochs. Stopping.
1.0 1.0
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```

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0.0 0.0
correct: 3998
wrong: 2
Accuracy: 1.00 (+/- 0.01) [StackingClassifier]
```


model accuracy