Elijah Andrushenko
CPTS 434
Introduction to Neural Networks and Applications
11-05-2019
Homework #8
Link for Python Code:
https://colab.research.google.com/drive/1SX11uxr6-lhII8YFGZc7N_IWYsrk1kmk
=== Run information ===
Scheme: weka.classifiers.functions.RBFNetwork -B 2 -S 1 -R 1.0E-8 -M -1 -W 0.1
Relation: one-five-1561-no name
Instances: 1561
Attributes: 3
Intensity
Symmetry
Class
Test mode: 10-fold cross-validation
=== Classifier model (full training set) ===
Radial basis function network
(Linear regression applied to K-means clusters as basis functions):
Linear Regression Model
Class =

```
1.9794 * pCluster_0_0 +
-1.9789 * pCluster_0_1 +
2.9884
```

Time taken to build model: 0.02 seconds

=== Predictions on test data ===

inst#,actual,predicted,error

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2,5,4.976,-0.024

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- 85,1,1.007,0.007
- 86,5,4.967,-0.033
- 87,1,1.007,0.007
- 88,5,4.967,-0.033
- 89,1,1.007,0.007
- 90,1,1.007,0.007
- 91,5,4.809,-0.191
- 92,1,1.007,0.007
- 93,1,1.007,0.007
- 94,1,1.007,0.007
- 95,5,4.967,-0.033
- 96,1,1.007,0.007
- 97,1,1.007,0.007
- 98,5,4.967,-0.033
- 99,1,1.007,0.007
- 100,5,4.967,-0.033
- 101,5,4.967,-0.033
- 102,1,1.007,0.007
- 103,5,4.967,-0.033
- 104,1,1.007,0.007
- 105,1,1.007,0.007
- 106,1,1.007,0.007
- 107,1,1.007,0.007
- 108,5,4.967,-0.033
- 109,5,4.967,-0.033
- 110,1,1.007,0.007

- 111,5,4.967,-0.033
- 112,5,4.967,-0.033
- 113,1,1.007,0.007
- 114,1,1.007,0.007
- 115,1,1.007,0.007
- 116,1,1.007,0.007
- 117,5,4.967,-0.033
- 118,1,1.007,0.007
- 119,1,1.007,0.007
- 120,1,1.007,0.007
- 121,1,1.007,0.007
- 122,1,1.007,0.007
- 123,1,1.007,0.007
- 124,1,1.007,0.007
- 125,5,4.967,-0.033
- 126,1,1.007,0.007
- 127,1,1.007,0.007
- 128,5,4.967,-0.033
- 129,1,1.007,0.007
- 130,5,4.967,-0.033
- 131,5,4.967,-0.033
- 132,1,1.007,0.007
- 133,5,4.967,-0.033
- 134,5,4.967,-0.033
- 135,1,1.007,0.007
- 136,1,1.009,0.009
- 137,5,4.967,-0.033
- 138,1,1.007,0.007

- 139,5,4.967,-0.033
- 140,1,1.007,0.007
- 141,1,1.007,0.007
- 142,1,1.007,0.007
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- 146,1,1.007,0.007
- 147,1,1.007,0.007
- 148,1,1.007,0.007
- 149,5,4.967,-0.033
- 150,1,1.007,0.007
- 151,1,4.894,3.894
- 152,1,1.007,0.007
- 153,1,1.007,0.007
- 154,5,4.967,-0.033
- 155,1,1.007,0.007
- 156,1,1.007,0.007
- 1,1,1.009,0.009
- 2,1,1.008,0.008
- 3,1,1.008,0.008
- 4,1,1.008,0.008
- 5,1,1.008,0.008
- 6,5,4.965,-0.035
- 7,1,1.008,0.008
- 8,1,1.008,0.008
- 9,1,1.008,0.008
- 10,5,4.965,-0.035

- 11,5,4.965,-0.035
- 12,1,1.008,0.008
- 13,5,4.965,-0.035
- 14,5,4.965,-0.035
- 15,1,1.008,0.008
- 16,5,4.965,-0.035
- 17,1,1.011,0.011
- 18,5,4.965,-0.035
- 19,1,1.008,0.008
- 20,1,1.008,0.008
- 21,1,1.008,0.008
- 22,1,1.008,0.008
- 23,1,1.008,0.008
- 24,5,4.965,-0.035
- 25,1,1.008,0.008
- 26,5,4.965,-0.035
- 27,1,1.008,0.008
- 28,1,1.008,0.008
- 29,5,4.965,-0.035
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- 31,1,1.008,0.008
- 32,5,4.965,-0.035
- 33,5,4.965,-0.035
- 34,1,1.008,0.008
- 35,5,4.965,-0.035
- 36,1,1.008,0.008
- 37,5,4.965,-0.035
- 38,1,1.02,0.02

- 39,1,1.008,0.008
- 40,5,4.965,-0.035
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- 43,1,1.008,0.008
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- 47,1,1.008,0.008
- 48,1,1.008,0.008
- 49,1,1.008,0.008
- 50,5,4.965,-0.035
- 51,5,4.965,-0.035
- 52,5,4.965,-0.035
- 53,5,4.965,-0.035
- 54,5,4.965,-0.035
- 55,5,4.965,-0.035
- 56,1,1.008,0.008
- 57,1,1.008,0.008
- 58,1,1.008,0.008
- 59,1,1.008,0.008
- 60,1,1.008,0.008
- 61,1,1.008,0.008
- 62,5,4.965,-0.035
- 63,1,1.008,0.008
- 64,1,1.008,0.008
- 65,5,4.965,-0.035
- 66,5,4.965,-0.035

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- 68,5,4.965,-0.035
- 69,1,1.008,0.008
- 70,5,4.965,-0.035
- 71,1,1.008,0.008
- 72,1,1.008,0.008
- 73,5,4.965,-0.035
- 74,1,1.175,0.175
- 75,1,1.008,0.008
- 76,1,1.008,0.008
- 77,5,4.965,-0.035
- 78,5,1.008,-3.992
- 79,5,4.965,-0.035
- 80,1,1.008,0.008
- 81,1,1.008,0.008
- 82,5,4.965,-0.035
- 83,5,4.965,-0.035
- 84,1,2.407,1.407
- 85,5,4.965,-0.035
- 86,5,4.965,-0.035
- 87,1,1.008,0.008
- 88,1,1.008,0.008
- 89,1,1.008,0.008
- 90,1,1.008,0.008
- 91,5,4.965,-0.035
- 92,5,4.965,-0.035
- 93,1,1.008,0.008
- 94,1,1.008,0.008

- 95,1,1.008,0.008
- 96,1,1.008,0.008
- 97,5,4.965,-0.035
- 98,1,1.008,0.008
- 99,1,1.008,0.008
- 100,1,1.008,0.008
- 101,1,1.008,0.008
- 102,1,1.008,0.008
- 103,1,1.008,0.008
- 104,5,4.965,-0.035
- 105,5,4.965,-0.035
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- 107,1,1.008,0.008
- 108,5,4.965,-0.035
- 109,1,1.008,0.008
- 110,1,1.008,0.008
- 111,1,1.008,0.008
- 112,5,4.965,-0.035
- 113,1,1.048,0.048
- 114,1,1.008,0.008
- 115,5,4.965,-0.035
- 116,1,1.008,0.008
- 117,5,4.965,-0.035
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- 120,1,1.012,0.012
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- 123,1,1.015,0.015
- 124,1,1.008,0.008
- 125,1,1.008,0.008
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- 127,1,1.008,0.008
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- 129,1,1.008,0.008
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- 131,1,1.008,0.008
- 132,1,1.009,0.009
- 133,1,1.008,0.008
- 134,5,4.965,-0.035
- 135,1,1.008,0.008
- 136,1,1.008,0.008
- 137,1,1.008,0.008
- 138,1,1.008,0.008
- 139,1,1.008,0.008
- 140,5,4.965,-0.035
- 141,5,4.965,-0.035
- 142,5,4.965,-0.035
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- 144,1,1.008,0.008
- 145,1,1.008,0.008
- 146,1,1.008,0.008
- 147,5,4.965,-0.035
- 148,5,4.965,-0.035
- 149,5,4.965,-0.035
- 150,5,4.965,-0.035

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- 154,5,4.965,-0.035
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- 156,1,1.008,0.008
- 1,1,1.515,0.515
- 2,5,4.968,-0.032
- 3,5,4.968,-0.032
- 4,1,1.008,0.008
- 5,5,4.968,-0.032
- 6,1,1.008,0.008
- 7,5,4.968,-0.032
- 8,1,1.008,0.008
- 9,5,4.968,-0.032
- 10,5,4.968,-0.032
- 11,1,1.008,0.008
- 12,1,1.008,0.008
- 13,1,1.008,0.008
- 14,1,1.008,0.008
- 15,1,1.008,0.008
- 16,5,4.968,-0.032
- 17,1,1.008,0.008
- 18,1,1.008,0.008
- 19,1,1.008,0.008
- 20,1,1.008,0.008
- 21,1,1.008,0.008
- 22,5,4.968,-0.032

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- 24,1,1.008,0.008
- 25,5,4.968,-0.032
- 26,5,4.968,-0.032
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- 28,5,4.968,-0.032
- 29,5,4.968,-0.032
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- 37,1,1.019,0.019
- 38,1,1.008,0.008
- 39,1,1.008,0.008
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- 41,1,1.008,0.008
- 42,5,4.968,-0.032
- 43,5,4.968,-0.032
- 44,1,1.008,0.008
- 45,1,1.008,0.008
- 46,1,1.008,0.008
- 47,5,4.966,-0.034
- 48,5,4.968,-0.032
- 49,1,1.008,0.008
- 50,5,4.968,-0.032

- 51,1,1.008,0.008
- 52,5,4.968,-0.032
- 53,5,4.968,-0.032
- 54,1,1.008,0.008
- 55,5,4.968,-0.032
- 56,1,1.008,0.008
- 57,1,1.008,0.008
- 58,5,4.968,-0.032
- 59,1,1.008,0.008
- 60,1,1.008,0.008
- 61,5,4.968,-0.032
- 62,1,1.008,0.008
- 63,1,1.008,0.008
- 64,1,4.968,3.968
- 65,1,1.008,0.008
- 66,5,4.968,-0.032
- 67,1,1.008,0.008
- 68,5,4.968,-0.032
- 69,5,4.968,-0.032
- 70,5,4.968,-0.032
- 71,5,4.968,-0.032
- 72,5,4.968,-0.032
- 73,5,4.968,-0.032
- 74,1,1.008,0.008
- 75,1,1.008,0.008
- 76,5,4.968,-0.032
- 77,5,4.968,-0.032
- 78,1,1.008,0.008

- 79,1,1.008,0.008
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- 89,1,1.008,0.008
- 90,1,1.008,0.008
- 91,1,1.008,0.008
- 92,1,1.008,0.008
- 93,5,4.968,-0.032
- 94,5,4.968,-0.032
- 95,5,4.968,-0.032
- 96,5,4.968,-0.032
- 97,1,1.008,0.008
- 98,5,4.968,-0.032
- 99,5,4.968,-0.032
- 100,1,1.008,0.008
- 101,5,4.968,-0.032
- 102,5,4.968,-0.032
- 103,1,1.008,0.008
- 104,5,4.967,-0.033
- 105,1,1.008,0.008
- 106,5,4.968,-0.032

- 107,1,1.008,0.008
- 108,5,4.968,-0.032
- 109,5,4.968,-0.032
- 110,1,1.008,0.008
- 111,1,1.008,0.008
- 112,1,1.008,0.008
- 113,5,4.931,-0.069
- 114,1,1.008,0.008
- 115,1,1.008,0.008
- 116,5,4.968,-0.032
- 117,5,4.968,-0.032
- 118,1,1.008,0.008
- 119,1,1.008,0.008
- 120,1,1.008,0.008
- 121,1,1.008,0.008
- 122,1,1.008,0.008
- 123,1,1.008,0.008
- 124,5,4.968,-0.032
- 125,5,4.968,-0.032
- 126,5,4.968,-0.032
- 127,5,4.968,-0.032
- 128,1,1.008,0.008
- 129,1,1.008,0.008
- 130,1,1.008,0.008
- 131,5,4.968,-0.032
- 132,5,4.964,-0.036
- 133,1,1.008,0.008
- 134,5,4.968,-0.032

- 135,1,1.008,0.008
- 136,5,4.968,-0.032
- 137,1,1.008,0.008
- 138,5,4.968,-0.032
- 139,1,1.008,0.008
- 140,1,1.008,0.008
- 141,5,4.968,-0.032
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- 143,1,1.008,0.008
- 144,1,1.008,0.008
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- 146,1,1.008,0.008
- 147,1,1.008,0.008
- 148,1,1.008,0.008
- 149,1,1.008,0.008
- 150,5,4.968,-0.032
- 151,5,4.968,-0.032
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- 155,1,1.008,0.008
- 156,1,1.008,0.008
- 1,1,1.013,0.013
- 2,5,4.972,-0.028
- 3,1,1.013,0.013
- 4,1,1.013,0.013
- 5,5,4.972,-0.028
- 6,1,1.013,0.013

- 7,1,1.013,0.013
- 8,5,4.972,-0.028
- 9,1,1.013,0.013
- 10,1,1.013,0.013
- 11,1,1.013,0.013
- 12,5,4.972,-0.028
- 13,1,1.013,0.013
- 14,1,1.013,0.013
- 15,1,1.013,0.013
- 16,5,4.972,-0.028
- 17,5,4.972,-0.028
- 18,1,1.013,0.013
- 19,1,1.013,0.013
- 20,1,1.013,0.013
- 21,5,4.972,-0.028
- 22,1,1.013,0.013
- 23,1,1.039,0.039
- 24,5,4.972,-0.028
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- 47,1,1.013,0.013
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- 49,5,4.972,-0.028
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- 53,1,1.03,0.03
- 54,1,1.013,0.013
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- 57,5,4.972,-0.028
- 58,1,1.013,0.013
- 59,5,4.972,-0.028
- 60,5,4.972,-0.028
- 61,1,1.013,0.013
- 62,1,1.013,0.013

- 63,1,1.013,0.013
- 64,1,1.013,0.013
- 65,1,1.013,0.013
- 66,5,4.972,-0.028
- 67,1,1.013,0.013
- 68,1,1.013,0.013
- 69,1,1.013,0.013
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- 71,1,1.013,0.013
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- 73,5,4.972,-0.028
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- 93,1,1.013,0.013
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- 95,5,4.972,-0.028
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- 97,1,1.013,0.013
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- 99,5,4.972,-0.028
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- 101,5,4.972,-0.028
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- 114,5,4.972,-0.028
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- 134,5,4.972,-0.028
- 135,5,4.972,-0.028
- 136,1,1.013,0.013
- 137,5,4.972,-0.028
- 138,5,4.972,-0.028
- 139,5,4.972,-0.028
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- 141,1,1.013,0.013
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- 147,1,1.013,0.013
- 148,5,4.968,-0.032
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- 151,5,4.972,-0.028
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- 3,5,4.961,-0.039
- 4,1,1.007,0.007
- 5,1,1.007,0.007
- 6,1,1.007,0.007
- 7,1,1.007,0.007
- 8,5,4.961,-0.039
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- 10,1,1.007,0.007
- 11,5,4.961,-0.039
- 12,5,4.961,-0.039
- 13,1,1.007,0.007
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- 15,5,4.961,-0.039
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- 20,5,4.961,-0.039
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- 28,1,1.007,0.007
- 29,5,4.961,-0.039
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- 35,5,4.961,-0.039
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- 38,5,4.961,-0.039
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- 43,1,1.007,0.007
- 44,1,1.007,0.007
- 45,1,1.007,0.007
- 46,5,4.961,-0.039

- 47,5,4.961,-0.039
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- 55,5,4.959,-0.041
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- 126,1,1.012,0.012
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- 134,5,4.966,-0.034
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- 3,5,4.971,-0.029
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- 6,5,4.971,-0.029
- 7,1,1.011,0.011
- 8,5,4.971,-0.029
- 9,1,1.011,0.011
- 10,1,1.011,0.011
- 11,1,1.011,0.011
- 12,5,4.971,-0.029
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- 14,5,4.971,-0.029

- 15,5,4.971,-0.029
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- 18,5,4.971,-0.029
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- 20,5,4.971,-0.029
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- 22,5,4.971,-0.029
- 23,5,4.971,-0.029
- 24,1,1.011,0.011
- 25,5,4.971,-0.029
- 26,1,1.011,0.011
- 27,1,1.011,0.011
- 28,5,4.971,-0.029
- 29,1,1.011,0.011
- 30,1,1.011,0.011
- 31,1,1.011,0.011
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- 33,5,4.971,-0.029
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- 36,1,1.011,0.011
- 37,1,1.011,0.011
- 38,5,4.971,-0.029
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- 42,5,4.971,-0.029

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- 59,5,4.971,-0.029
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- 61,5,4.971,-0.029
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- 66,1,1.011,0.011
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- 68,5,4.971,-0.029
- 69,1,1.011,0.011
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- 71,5,4.971,-0.029
- 72,5,4.971,-0.029
- 73,1,1.011,0.011
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- 75,1,1.011,0.011
- 76,1,1.011,0.011
- 77,1,1.011,0.011
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- 87,1,1.011,0.011
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- 90,5,4.971,-0.029
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- 99,1,1.011,0.011
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- 102,5,4.971,-0.029
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- 111,1,1.011,0.011
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- 113,5,4.971,-0.029
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- 126,5,4.946,-0.054

- 127,1,1.011,0.011
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- 129,5,4.971,-0.029
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- 132,5,4.75,-0.25
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- 137,5,4.971,-0.029
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- 154,1,1.011,0.011

155,1,1.011,0.011

156,5,4.971,-0.029

=== Cross-validation ===

=== Summary ===

Correlation coefficient 0.988

Mean absolute error 0.0442

Root mean squared error 0.2963

Relative absolute error 2.4103 %

Root relative squared error 15.4563 %

Total Number of Instances 1561