k x(k) y(k) yt(k) E = |y(k) - yt(k)|

--------------------------------------------------------------

1 0.000 0.000000e+00 0.000000e+00 0.000000e+00

2 0.010 3.092753e-02 2.973985e-02 1.187683e-03

3 0.020 6.089801e-02 5.885609e-02 2.041926e-03

4 0.030 8.993971e-02 8.735018e-02 2.589525e-03

5 0.040 1.180792e-01 1.152236e-01 2.855632e-03

6 0.050 1.453415e-01 1.424777e-01 2.863879e-03

7 0.060 1.717503e-01 1.691138e-01 2.636484e-03

8 0.070 1.973278e-01 1.951334e-01 2.194353e-03

9 0.080 2.220949e-01 2.205377e-01 1.557167e-03

10 0.090 2.460716e-01 2.453281e-01 7.434702e-04

11 0.100 2.692765e-01 2.695057e-01 2.292569e-04

12 0.110 2.917273e-01 2.930718e-01 1.344528e-03

13 0.120 3.134409e-01 3.160277e-01 2.586788e-03

14 0.130 3.344329e-01 3.383743e-01 3.941352e-03

15 0.140 3.547185e-01 3.601129e-01 5.394352e-03

16 0.150 3.743118e-01 3.812445e-01 6.932690e-03

17 0.160 3.932263e-01 4.017703e-01 8.543988e-03

18 0.170 4.114746e-01 4.216912e-01 1.021655e-02

19 0.180 4.290689e-01 4.410082e-01 1.193932e-02

20 0.190 4.460204e-01 4.597223e-01 1.370185e-02

21 0.200 4.623401e-01 4.778344e-01 1.549426e-02

22 0.210 4.780382e-01 4.953454e-01 1.730722e-02

23 0.220 4.931243e-01 5.122562e-01 1.913189e-02

24 0.230 5.076076e-01 5.285675e-01 2.095995e-02

25 0.240 5.214967e-01 5.442803e-01 2.278351e-02

26 0.250 5.348000e-01 5.593951e-01 2.459515e-02

27 0.260 5.475251e-01 5.739129e-01 2.638784e-02

28 0.270 5.596793e-01 5.878342e-01 2.815497e-02

29 0.280 5.712695e-01 6.011598e-01 2.989030e-02

30 0.290 5.823022e-01 6.138902e-01 3.158796e-02

31 0.300 5.927836e-01 6.260260e-01 3.324242e-02

32 0.310 6.027194e-01 6.375679e-01 3.484850e-02

33 0.320 6.121149e-01 6.485163e-01 3.640133e-02

34 0.330 6.209753e-01 6.588717e-01 3.789636e-02

35 0.340 6.293053e-01 6.686346e-01 3.932932e-02

36 0.350 6.371092e-01 6.778055e-01 4.069624e-02

37 0.360 6.443912e-01 6.863847e-01 4.199343e-02

38 0.370 6.511550e-01 6.943725e-01 4.321748e-02

39 0.380 6.574042e-01 7.017694e-01 4.436521e-02

40 0.390 6.631419e-01 7.085756e-01 4.543372e-02

41 0.400 6.683710e-01 7.147914e-01 4.642035e-02

42 0.410 6.730943e-01 7.204170e-01 4.732268e-02

43 0.420 6.773141e-01 7.254526e-01 4.813854e-02

44 0.430 6.810325e-01 7.298984e-01 4.886597e-02

45 0.440 6.842514e-01 7.337546e-01 4.950326e-02

46 0.450 6.869723e-01 7.370212e-01 5.004891e-02

47 0.460 6.891967e-01 7.396984e-01 5.050163e-02

48 0.470 6.909257e-01 7.417861e-01 5.086039e-02

49 0.480 6.921601e-01 7.432844e-01 5.112433e-02

50 0.490 6.929004e-01 7.441933e-01 5.129283e-02

51 0.500 6.931472e-01 7.445127e-01 5.136548e-02

52 0.510 6.929004e-01 7.442425e-01 5.134209e-02

53 0.520 6.921601e-01 7.433827e-01 5.122267e-02

54 0.530 6.909257e-01 7.419332e-01 5.100746e-02

55 0.540 6.891967e-01 7.398936e-01 5.069689e-02

56 0.550 6.869723e-01 7.372640e-01 5.029165e-02

57 0.560 6.842514e-01 7.340440e-01 4.979260e-02

58 0.570 6.810325e-01 7.302333e-01 4.920085e-02

59 0.580 6.773141e-01 7.258318e-01 4.851773e-02

60 0.590 6.730943e-01 7.208391e-01 4.774480e-02

61 0.600 6.683710e-01 7.152549e-01 4.688384e-02

62 0.610 6.631419e-01 7.090788e-01 4.593688e-02

63 0.620 6.574042e-01 7.023104e-01 4.490618e-02

64 0.630 6.511550e-01 6.949493e-01 4.379425e-02

65 0.640 6.443912e-01 6.869951e-01 4.260388e-02

66 0.650 6.371092e-01 6.784473e-01 4.133807e-02

67 0.660 6.293053e-01 6.693054e-01 4.000013e-02

68 0.670 6.209753e-01 6.595690e-01 3.859363e-02

69 0.680 6.121149e-01 6.492374e-01 3.712243e-02

70 0.690 6.027194e-01 6.383101e-01 3.559069e-02

71 0.700 5.927836e-01 6.267865e-01 3.400287e-02

72 0.710 5.823022e-01 6.146660e-01 3.236376e-02

73 0.720 5.712695e-01 6.019479e-01 3.067845e-02

74 0.730 5.596793e-01 5.886317e-01 2.895242e-02

75 0.740 5.475251e-01 5.747165e-01 2.719148e-02

76 0.750 5.348000e-01 5.602018e-01 2.540182e-02

77 0.760 5.214967e-01 5.450868e-01 2.359002e-02

78 0.770 5.076076e-01 5.293707e-01 2.176310e-02

79 0.780 4.931243e-01 5.130527e-01 1.992846e-02

80 0.790 4.780382e-01 4.961322e-01 1.809400e-02

81 0.800 4.623401e-01 4.786082e-01 1.626806e-02

82 0.810 4.460204e-01 4.604799e-01 1.445950e-02

83 0.820 4.290689e-01 4.417466e-01 1.267771e-02

84 0.830 4.114746e-01 4.224072e-01 1.093261e-02

85 0.840 3.932263e-01 4.024610e-01 9.234735e-03

86 0.850 3.743118e-01 3.819071e-01 7.595225e-03

87 0.860 3.547185e-01 3.607444e-01 6.025879e-03

88 0.870 3.344329e-01 3.389721e-01 4.539192e-03

89 0.880 3.134409e-01 3.165893e-01 3.148398e-03

90 0.890 2.917273e-01 2.935948e-01 1.867514e-03

91 0.900 2.692765e-01 2.699879e-01 7.113911e-04

92 0.910 2.460716e-01 2.457673e-01 3.042316e-04

93 0.920 2.220949e-01 2.209322e-01 1.162668e-03

94 0.930 1.973278e-01 1.954815e-01 1.846219e-03

95 0.940 1.717503e-01 1.694142e-01 2.336109e-03

96 0.950 1.453415e-01 1.427291e-01 2.612401e-03

97 0.960 1.180792e-01 1.154253e-01 2.653920e-03

98 0.970 8.993971e-02 8.750155e-02 2.438160e-03

99 0.980 6.089801e-02 5.895683e-02 1.941182e-03

100 0.990 3.092753e-02 2.979003e-02 1.137508e-03

101 1.000 2.220446e-16 -0.000000e+00 2.220446e-16

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Mean Squared Error : 9.66780329618599e-04

k x(k) y(k) yt(k) E = |y(k) - yt(k)|

--------------------------------------------------------------

1 0.000 0.000000e+00 0.000000e+00 0.000000e+00

2 0.005 1.558523e-02 1.494797e-02 6.372637e-04

3 0.015 4.603060e-02 4.437583e-02 1.654770e-03

4 0.025 7.553326e-02 7.318081e-02 2.352447e-03

5 0.035 1.041206e-01 1.013644e-01 2.756254e-03

6 0.045 1.318185e-01 1.289279e-01 2.890568e-03

7 0.055 1.586512e-01 1.558729e-01 2.778301e-03

8 0.065 1.846416e-01 1.822006e-01 2.441003e-03

9 0.075 2.098114e-01 2.079124e-01 1.898957e-03

10 0.085 2.341809e-01 2.330096e-01 1.171266e-03

11 0.095 2.577694e-01 2.574934e-01 2.759326e-04

12 0.105 2.805951e-01 2.813652e-01 7.700680e-04

13 0.115 3.026752e-01 3.046260e-01 1.950722e-03

14 0.125 3.240261e-01 3.272770e-01 3.250917e-03

15 0.135 3.446631e-01 3.493195e-01 4.656384e-03

16 0.145 3.646009e-01 3.707545e-01 6.153644e-03

17 0.155 3.838531e-01 3.915831e-01 7.729966e-03

18 0.165 4.024330e-01 4.118063e-01 9.373317e-03

19 0.175 4.203528e-01 4.314251e-01 1.107233e-02

20 0.185 4.376243e-01 4.504405e-01 1.281625e-02

21 0.195 4.542586e-01 4.688535e-01 1.459492e-02

22 0.205 4.702662e-01 4.866650e-01 1.639874e-02

23 0.215 4.856571e-01 5.038758e-01 1.821862e-02

24 0.225 5.004407e-01 5.204867e-01 2.004600e-02

25 0.235 5.146259e-01 5.364987e-01 2.187277e-02

26 0.245 5.282211e-01 5.519124e-01 2.369127e-02

27 0.255 5.412343e-01 5.667286e-01 2.549429e-02

28 0.265 5.536731e-01 5.809481e-01 2.727500e-02

29 0.275 5.655444e-01 5.945714e-01 2.902699e-02

30 0.285 5.768551e-01 6.075993e-01 3.074419e-02

31 0.295 5.876115e-01 6.200324e-01 3.242092e-02

32 0.305 5.978193e-01 6.318712e-01 3.405182e-02

33 0.315 6.074844e-01 6.431162e-01 3.563186e-02

34 0.325 6.166117e-01 6.537681e-01 3.715634e-02

35 0.335 6.252064e-01 6.638272e-01 3.862085e-02

36 0.345 6.332728e-01 6.732940e-01 4.002127e-02

37 0.355 6.408152e-01 6.821690e-01 4.135377e-02

38 0.365 6.478377e-01 6.904525e-01 4.261480e-02

39 0.375 6.543437e-01 6.981448e-01 4.380107e-02

40 0.385 6.603368e-01 7.052463e-01 4.490954e-02

41 0.395 6.658198e-01 7.117573e-01 4.593742e-02

42 0.405 6.707957e-01 7.176779e-01 4.688219e-02

43 0.415 6.752670e-01 7.230085e-01 4.774155e-02

44 0.425 6.792358e-01 7.277492e-01 4.851342e-02

45 0.435 6.827042e-01 7.319002e-01 4.919599e-02

46 0.445 6.856740e-01 7.354616e-01 4.978762e-02

47 0.455 6.881465e-01 7.384335e-01 5.028696e-02

48 0.465 6.901231e-01 7.408159e-01 5.069282e-02

49 0.475 6.916047e-01 7.426089e-01 5.100425e-02

50 0.485 6.925920e-01 7.438125e-01 5.122054e-02

51 0.495 6.930855e-01 7.444266e-01 5.134115e-02

52 0.505 6.930855e-01 7.444513e-01 5.136580e-02

53 0.515 6.925920e-01 7.438863e-01 5.129438e-02

54 0.525 6.916047e-01 7.427317e-01 5.112702e-02

55 0.535 6.901231e-01 7.409871e-01 5.086406e-02

56 0.545 6.881465e-01 7.386526e-01 5.050606e-02

57 0.555 6.856740e-01 7.357278e-01 5.005378e-02

58 0.565 6.827042e-01 7.322125e-01 4.950823e-02

59 0.575 6.792358e-01 7.281064e-01 4.887062e-02

60 0.585 6.752670e-01 7.234094e-01 4.814238e-02

61 0.595 6.707957e-01 7.181209e-01 4.732520e-02

62 0.605 6.658198e-01 7.122408e-01 4.642097e-02

63 0.615 6.603368e-01 7.057686e-01 4.543184e-02

64 0.625 6.543437e-01 6.987039e-01 4.436020e-02

65 0.635 6.478377e-01 6.910464e-01 4.320869e-02

66 0.645 6.408152e-01 6.827954e-01 4.198020e-02

67 0.655 6.332728e-01 6.739507e-01 4.067790e-02

68 0.665 6.252064e-01 6.645116e-01 3.930522e-02

69 0.675 6.166117e-01 6.544776e-01 3.786587e-02

70 0.685 6.074844e-01 6.438482e-01 3.636386e-02

71 0.695 5.978193e-01 6.326228e-01 3.480350e-02

72 0.705 5.876115e-01 6.208009e-01 3.318942e-02

73 0.715 5.768551e-01 6.083817e-01 3.152654e-02

74 0.725 5.655444e-01 5.953646e-01 2.982017e-02

75 0.735 5.536731e-01 5.817490e-01 2.807593e-02

76 0.745 5.412343e-01 5.675342e-01 2.629983e-02

77 0.755 5.282211e-01 5.527194e-01 2.449826e-02

78 0.765 5.146259e-01 5.373039e-01 2.267800e-02

79 0.775 5.004407e-01 5.212870e-01 2.084626e-02

80 0.785 4.856571e-01 5.046678e-01 1.901070e-02

81 0.795 4.702662e-01 4.874457e-01 1.717942e-02

82 0.805 4.542586e-01 4.696196e-01 1.536103e-02

83 0.815 4.376243e-01 4.511889e-01 1.356465e-02

84 0.825 4.203528e-01 4.321527e-01 1.179993e-02

85 0.835 4.024330e-01 4.125101e-01 1.007709e-02

86 0.845 3.838531e-01 3.922601e-01 8.406963e-03

87 0.855 3.646009e-01 3.714019e-01 6.801017e-03

88 0.865 3.446631e-01 3.499345e-01 5.271394e-03

89 0.875 3.240261e-01 3.278571e-01 3.830952e-03

90 0.885 3.026752e-01 3.051686e-01 2.493309e-03

91 0.895 2.805951e-01 2.818680e-01 1.272895e-03

92 0.905 2.577694e-01 2.579544e-01 1.849972e-04

93 0.915 2.341809e-01 2.334267e-01 7.541795e-04

94 0.925 2.098114e-01 2.082839e-01 1.527451e-03

95 0.935 1.846416e-01 1.825250e-01 2.116590e-03

96 0.945 1.586512e-01 1.561489e-01 2.502248e-03

97 0.955 1.318185e-01 1.291546e-01 2.663882e-03

98 0.965 1.041206e-01 1.015410e-01 2.579661e-03

99 0.975 7.553326e-02 7.330688e-02 2.226378e-03

100 0.985 4.603060e-02 4.445126e-02 1.579338e-03

101 0.995 1.558523e-02 1.497299e-02 6.122482e-04

102 1.000 2.220446e-16 -0.000000e+00 2.220446e-16

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Mean Squared Error : 9.57302239363118e-04

Mean of MSEs for training set 9.722e-04 ± 3.458e-05

Mean of MSEs for test set 9.627e-04 ± 3.425e-05

Elapsed time 276.836290 seconds to run.

Mean of elapsed time in seconds for training set 2.729e+01 ± 2.496e+00

Mean of elapsed time in seconds for test set 4.386e-04 ± 3.552e-04

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