

CIS 365 Worksheet

Create a confusion matrix given the following data and their predictions:

Problem 1:

Feature 1	Feature 2	Class Label	Predicted Label
0.25	0.89	1	1
0.76	0.45	0	0
0.34	0.67	1	1
0.92	0.10	0	0
0.58	0.22	0	0
0.11	0.85	1	1
0.48	0.29	0	1
0.60	0.71	1	1
0.20	0.79	1	1
0.95	0.15	0	0
0.31	0.56	1	1
0.87	0.41	0	0
0.39	0.93	1	0
0.82	0.25	0	0
0.67	0.33	0	0
0.14	0.77	1	1
0.59	0.47	0	0
0.04	0.90	1	0
0.73	0.66	1	1
0.90	0.05	0	0

Calculate the prediction accuracy of the system from the confusion matrix.

Problem 2:

Feature 1	Feature 2	Class Label	Predicted Correctly
0.25	0.89	1	True
0.76	0.45	0	True
0.34	0.67	1	True
0.92	0.10	0	True
0.58	0.22	0	True
0.11	0.85	1	True
0.48	0.29	0	False
0.60	0.71	1	True
0.20	0.79	1	True
0.95	0.15	0	True
0.31	0.56	1	True
0.87	0.41	0	True
0.39	0.93	1	False
0.82	0.25	0	True
0.67	0.33	0	True
0.14	0.77	1	True
0.59	0.47	0	True
0.04	0.90	1	False
0.73	0.66	1	True
0.90	0.05	0	True

Calculate the prediction accuracy of the system from the confusion matrix.