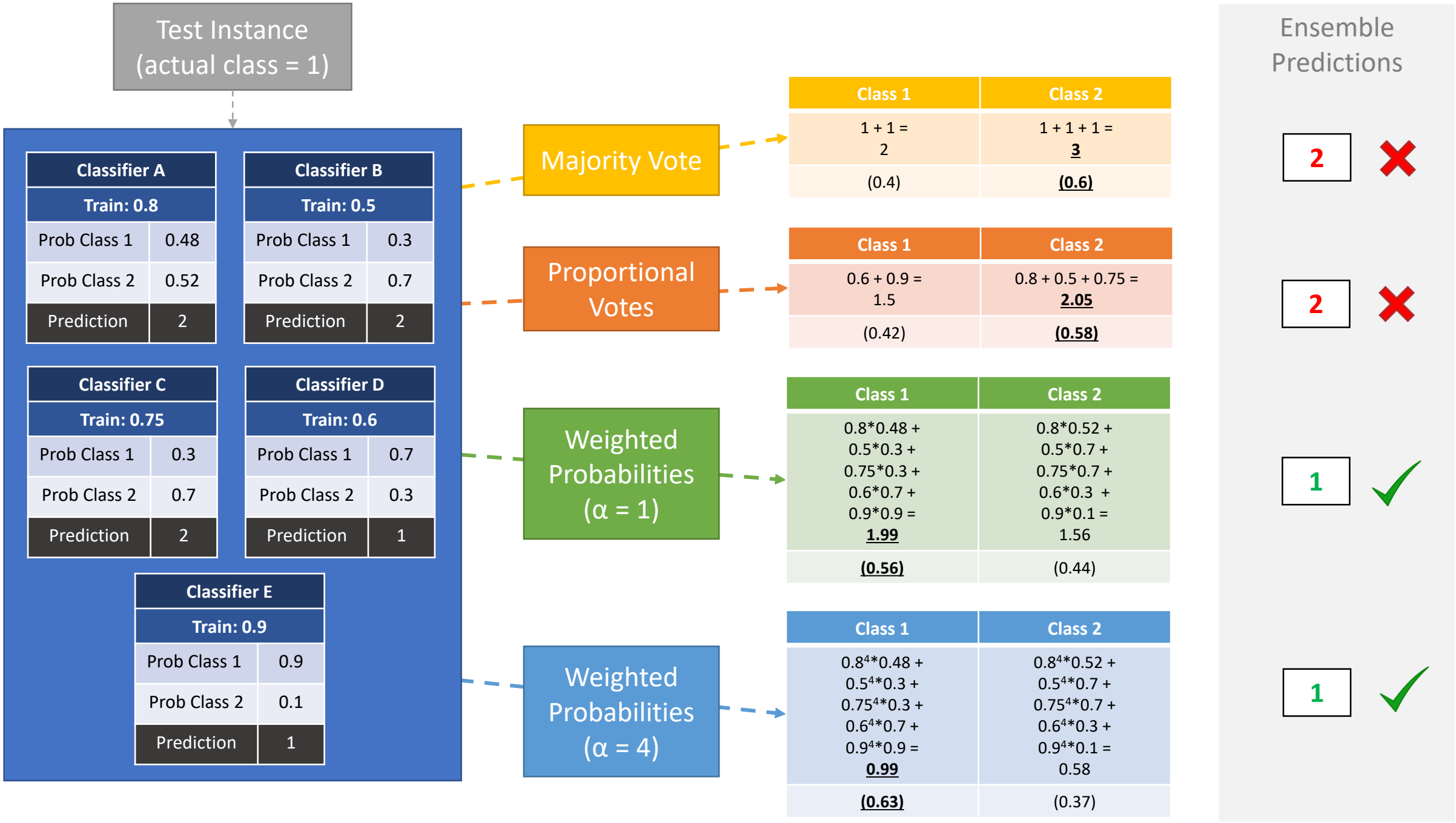
Test Instance
(actual class = 1)
Classifier A
Train: 0.8
Prob Class 1 0.48
Prob Class 2 0.52
Prediction 2
Classifier B
Train: 0.5
Prob Class 1 0.3
Prob Class 2 0.7
Prediction 2
Classifier C
Train: 0.75
Prob Class 1 0.3
Prob Class 2 0.7
Prediction 2
Classifier D
Train: 0.6
Prob Class 1 0.7
Prob Class 2 0.3
Prediction 1
Classifier E
Train: 0.9
Prob Class 1 0.9
Prob Class 2 0.1
Prediction 1
Majority Vote
Class 1
Class 2
1 + 1 = 2
1 + 1 + 1 = 3
(0.4)
(0.6)
Proportional Votes
Class 1
Class 2
0.6 + 0.9 = 1.5
0.8 + 0.5 + 0.75 = 2.05
(0.42)
(0.58)
Weighted Probabilities (α = 1)
Class 1
Class 2
0.8*0.48 + 0.5*0.3 + 0.75*0.3 + 0.6*0.7 + 0.9*0.9 = 1.99
0.8*0.52 + 0.5*0.7 + 0.75*0.7 + 0.6*0.3 + 0.9*0.1 = 1.56
(0.56)
(0.44)
Weighted Probabilities (α = 4)
Class 1
Class 2
0.8⁴*0.48 + 0.5⁴*0.3 + 0.75⁴*0.3 + 0.6⁴*0.7 + 0.9⁴*0.9 = 0.99
0.8⁴*0.52 + 0.5⁴*0.7 + 0.75⁴*0.7 + 0.6⁴*0.3 + 0.9⁴*0.1 = 0.58
(0.63)
(0.37)
Ensemble Predictions
2
2
1
1