

Machine Learning Exercise 5

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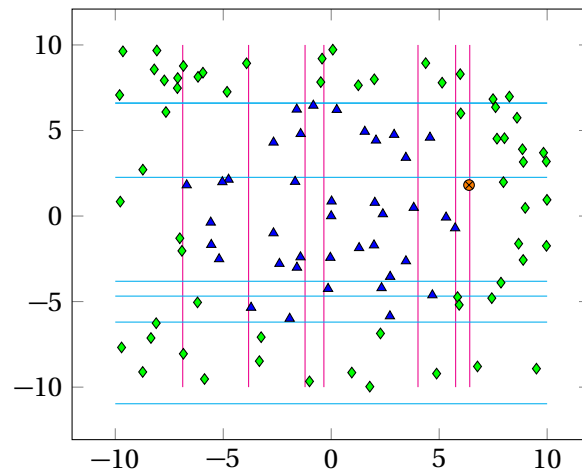


Figure 1: Plot of classified points together with vertical and horizontal weak classifiers. One Point is being misclassified

$M(x_0, x_1) =$	5.1708115473377	·	$\{x_0 < 6.4160687\}$
+	6.464662794253107	·	$\{x_0 > -6.8761546\}$
+	5.365844399317796	·	$\{x_0 < 5.7623528\}$
+	5.9641779005384805	·	$\{x_0 > -3.8254804\}$
+	5.805433505669511	·	$\{x_0 < 4.0191104\}$
+	3.3219302078481254	·	$\{x_0 > -0.3389956\}$
+	4.743495110124148	·	$\{x_0 < -1.2106168\}$
+	2.7913141893701168	·	$\{x_1 < 2.2621636\}$
+	3.039454100219727	·	$\{x_1 > -3.8123692\}$
+	32.4912501936	·	$\{x_1 < -10.97164\}$
+	5.103631077636498	·	$\{x_1 < 6.6011156\}$
+	5.167295905268116	·	$\{x_1 > -6.1987928\}$
+	5.06433648096325	·	$\{x_1 < 6.6011156\}$
+	5.3077303434422305	·	$\{x_1 > -4.6801596\}$