ML Predicting tennis shot quality from hawkeye data
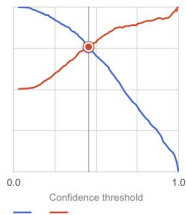
Aggregate Metrics ❓

Threshold ❓	0.5000
Precision ❓	0.7869
Recall ❓	0.7040
Accuracy ❓	0.7550
F1 score ❓	0.7431
Log loss ❓	0.5195
ROC AUC ❓	0.8254

Score threshold

Positive class threshold ❓		0.4545
Positive class	short	
Negative class	in	
Precision ❓	0.7587	
Recall ❓	0.7547	
Accuracy ❓	0.7557	
F1 score ❓	0.7567	

Precision-recall by threshold ❓

Confidence threshold

Precision-recall curve ❓
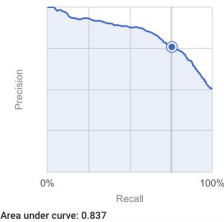
Recall
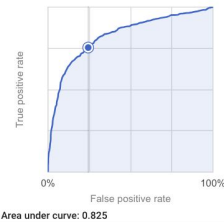
Area under curve: 0.837

ROC curve ❓

False positive rate

Area under curve: 0.825

Confusion matrix

Item counts

This table shows how often the model classified each label correctly (in blue), and which labels were most often confused for that label (in gray).

True label	Predicted label	
	short	in
short	75%	25%
in	24%	76%

Forecasting falling wickets in Cricket

Single point statistics

This table shows how many times Monty fired with different levels of

Confidence	Accuracy	Times	Right outcome
> 50%	43.38%	136	59
> 65%	58.33%	36	21
> 75%	80.00%	10	8
> 80%	100.00%	5	5
> 90%	100.00%	3	3

Grouping - False positives analysis

This analysis groups predictions that happened close to each other (ie the last

Points above 50%	Times	Time to wicket	Avg confidence
1	11	01:06:01	54%
2	3	############	53%
3	6	01:25:59	61%
4	4	00:20:55	56%
5	1	02:33:54	60%
6	2	00:32:45	58%
Total	27	00:54:39	57%
	10		

Grouping - True positives analysis

This analysis groups predictions that happened close to each other (ie the last 10 predictions

Points above 50%	Times	Time to wicket	Avg confidence	Max confidence
1	2	00:02:06	55%	60%
2	1	00:10:32	59%	67%
3	2	00:04:35	62%	71%
4	2	00:04:26	60%	66%
5	1	00:06:17	59%	66%
6	2	00:07:32	56%	63%
7	1	00:05:22	61%	67%
8	2	00:08:18	65%	91%
10	1	00:05:17	75%	92%
Total	14	00:06:03	61%	71%
	18			

ML Predicting rugby events from player tracks

True labels	Hit up	Kick	Marked	PTB	Pass	Possession - start	Receive	Run	Tackle
Hit up	67%	-	-	-	-	-	-	33%	-
Kick	14%	79%	-	-	-	7%	-	-	-
Marked	-	-	100%	-	-	-	-	-	-
PTB	-	-	-	89%	-	-	11%	-	-
Pass	-	-	-	-	100%	-	-	-	-
Possession - start	-	-	-	-	-	93%	7%	-	-
Receive	-	-	-	-	-	4%	96%	-	-
Run	6%	-	-	-	-	-	-	81%	13%
Tackle	-	-	-	-	-	3%	8%	5%	85%

ML Estimating Basketball momentum from the Box Score

Aggregate Metrics ❓

Threshold ❓	0.5000
Precision ❓	0.7353
Recall ❓	0.7598
Accuracy ❓	0.7508
F1 score ❓	0.7473
Log loss ❓	0.5524
ROC AUC ❓	0.8373

Score threshold

Positive class threshold ❓	0.5097
Positive class	1
Negative class	0
Precision ❓	0.7450
Recall ❓	0.7430
Accuracy ❓	0.7520
F1 score ❓	0.7440

Precision-recall by threshold ❓
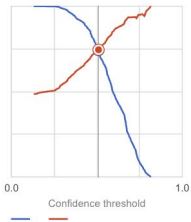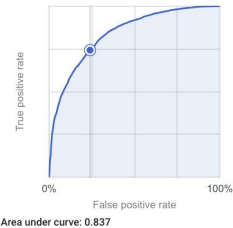
Confidence threshold

0.0   1.0

Precision-recall curve ❓

Precision

Recall

0%   100%

Area under curve: 0.825

ROC curve ❓

True positive rate

False positive rate

0%   100%

Area under curve: 0.837

Confusion matrix

Item counts

This table shows how often the model classified each label correctly (in blue), and which labels were most often confused for that label (in gray).

True label	Predicted label	
	1	0
1	74%	26%
0	24%	76%