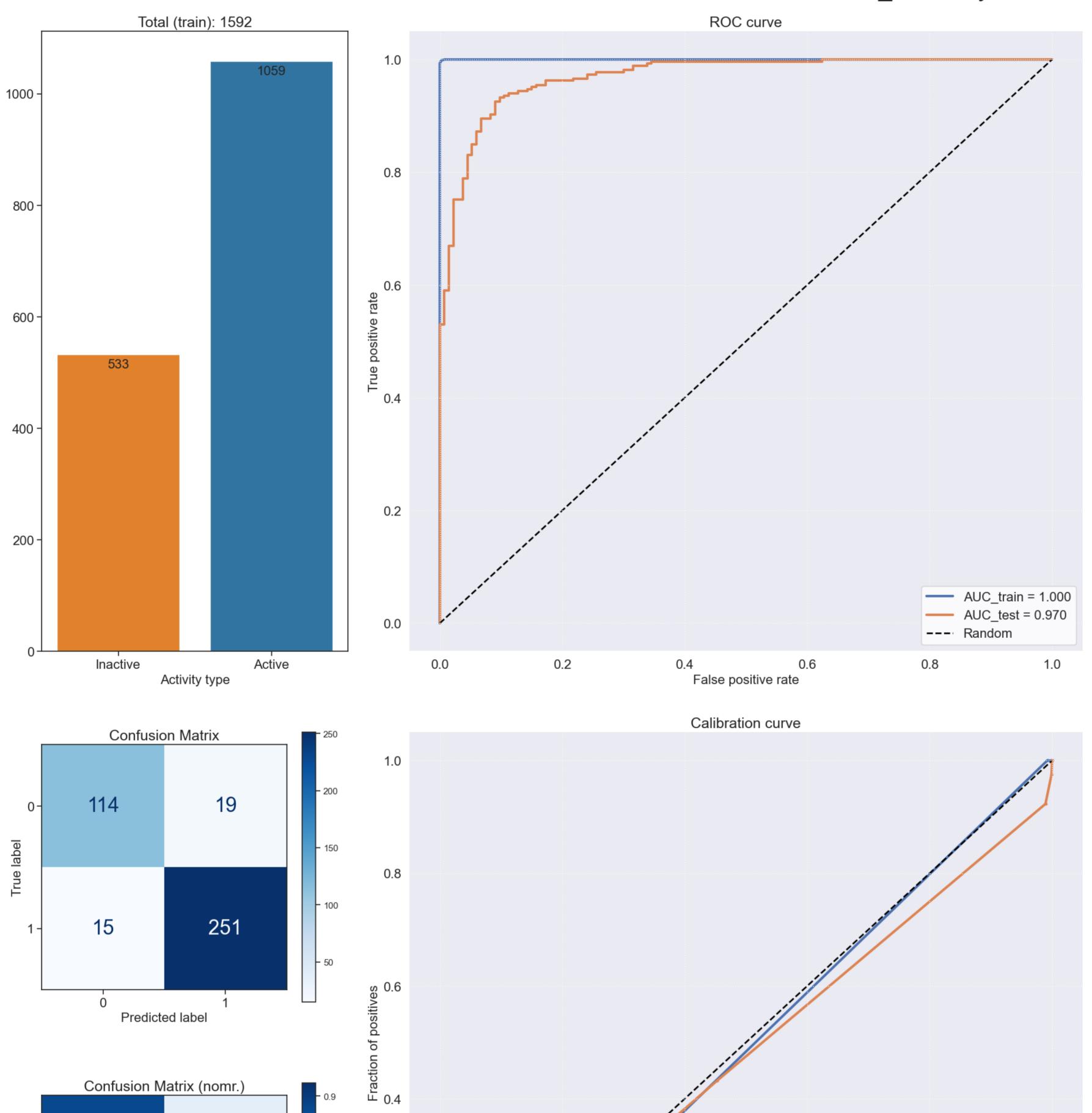
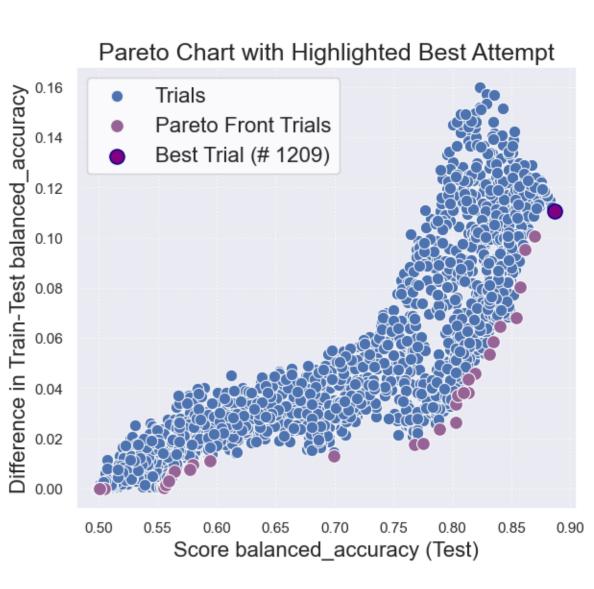
Protein: P06276 - metric: balanced_accuracy





XGBoost Parameters	Value
alpha	1.6131
colsample_bytree	0.9023
gamma	0.0009
lambda	2.9916
learning_rate	0.175
max_depth	10.0
min_child_weight	2.0
n_estimators	680.0
reg_alpha	0.1941
reg_lambda	0.4153
scale_pos_weight	1.7258
subsample	0.9361

		Ac	tive/Inactive prob	ability		
70	Ina	active zone		Active	zone a	type ctive (266) pactive (133) ecoy (399)
00						
Percent - 05 - 05						
ამ −						
20						
0		12	4	0.6	——————————————————————————————————————	10
	0.0 0.2 0.4 0.6 0.8 1.0 Probability					

- 0.8

- 0.7

- 0.6

- 0.5

- 0.4

0.3

0.2

0.1

0.2

0.0

0.0

0.2

Confusion Matrix (nomr.)

Predicted label

0.14

0.94

0.86

0.056

0-

True label

Metric	Train	Test
AUC	1.0	0.9696
accuracy	0.9975	0.9148
balanced accuracy	0.9962	0.9004
recall_(sens)	1.0	0.9436
specificity	0.9925	0.8571
precision	0.9962	0.9296
f1_score	0.9975	0.9145

- train: 0.0023

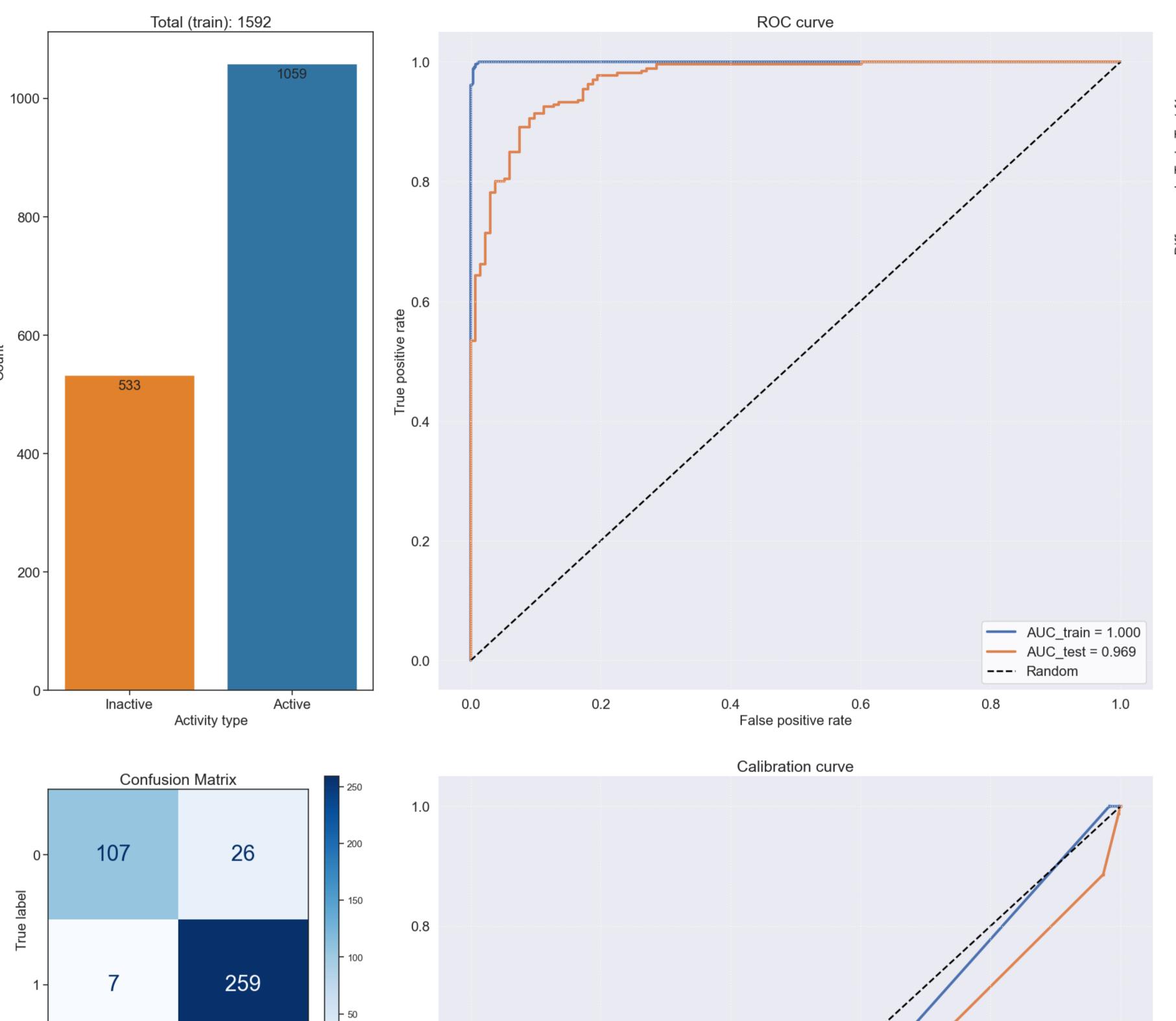
test: 0.0657

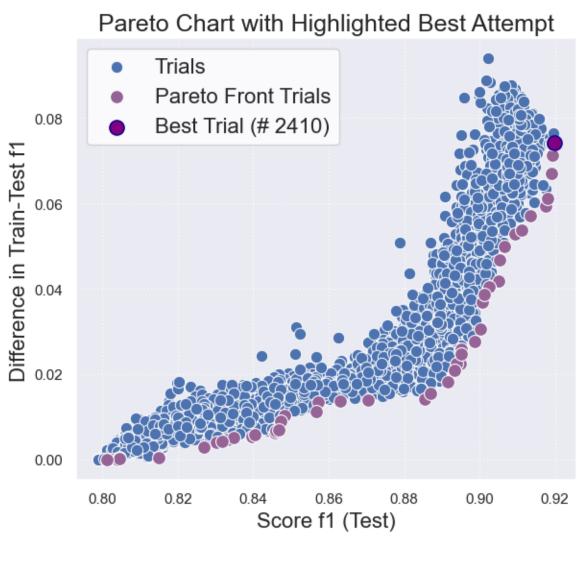
0.8

0.4 0.6 Mean predicted probability

--- perfectly_calibrated

Protein: P06276 - metric: f1





Value
2.2958
0.819
0.5903
2.9638
0.1333
7.0
1.0
830.0
0.769
0.206
3.0693
0.5764

		Ac	tive/Inactive	e probabili	ity		
60	Ina	ctive zone			Active :	zone	type active (266)
50							decoy (399)
Percent 0.							
20							
10							
0	0.0	.2 0	.4 Probal	0.6 bility	6 0	.8	1.0

Fraction of positives
0.0
7.0

0.2

0.0

0.0

0.2

0.4

0.2

Predicted label

Confusion Matrix (nomr.)

Predicted label

0.2

0.97

8.0

0.026

0-

True label

Metric	Train	Test
AUC	0.9998	0.9692
accuracy	0.9918	0.9173
balanced accuracy	0.9878	0.8891
recall_(sens)	1.0	0.9737
specificity	0.9756	0.8045
precision	0.9879	0.9088
f1_score	0.9918	0.9155

Metric	Train	Test
AUC	0.9998	0.9692
accuracy	0.9918	0.9173
balanced accuracy	0.9878	0.8891
recall_(sens)	1.0	0.9737
specificity	0.9756	0.8045
precision	0.9879	0.9088
f1_score	0.9918	0.9155

--- train: 0.0098

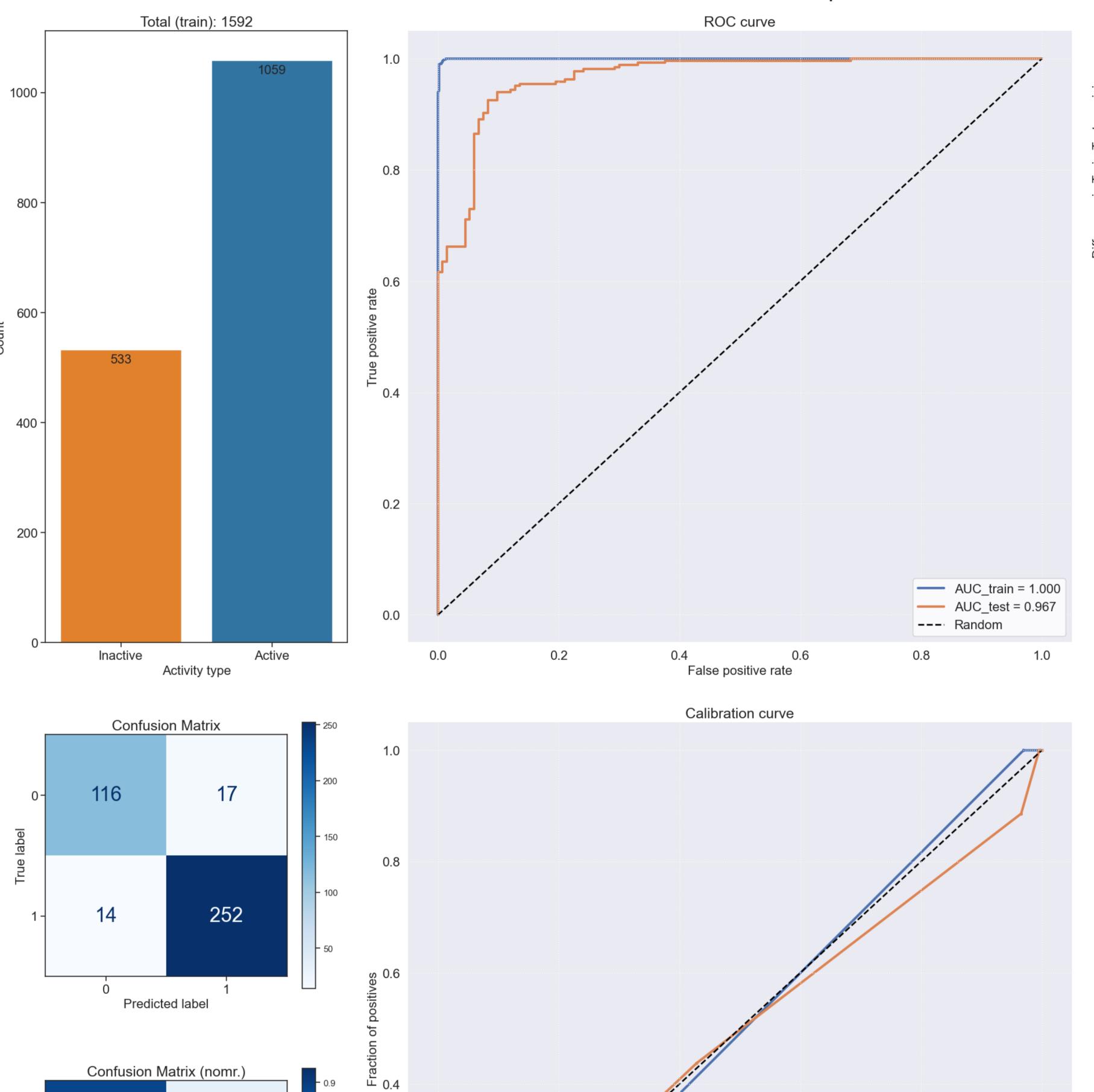
0.8

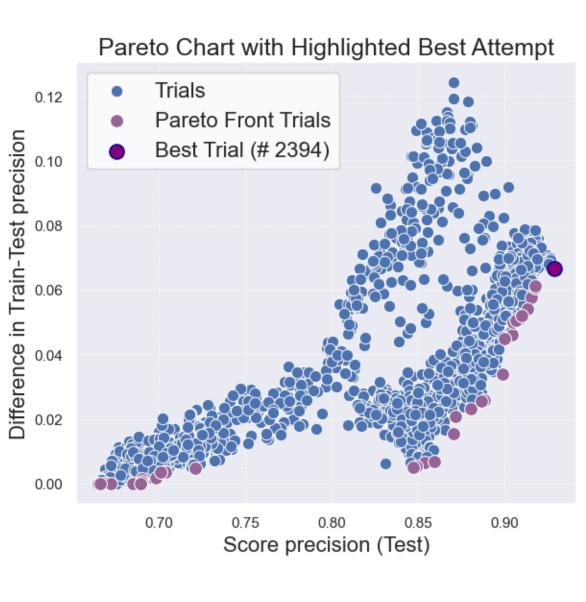
0.4 0.6 Mean predicted probability

test: 0.0673

--- perfectly_calibrated

Protein: P06276 - metric: precision





XGBoost Parameters	Value
alpha	2.8757
colsample_bytree	0.9562
gamma	0.021
lambda	0.4009
learning_rate	0.2531
max_depth	4.0
min_child_weight	3.0
n_estimators	928.0
reg_alpha	0.4133
reg_lambda	0.5917
scale_pos_weight	1.0184
subsample	0.9614

			Active/Inactive	ve probability		
60		Inactive zone			Active zone	active (266) inactive (133)
50						decoy (399)
40						
Percent 08						
20						
10						
Ü	0.0	0.2	0.4 Proba	0.6 ability	0.8	1.0

- 0.8

- 0.7

0.6

- 0.5

0.4

0.3

0.2

0.1

0.2

0.0

0.0

0.2

Confusion Matrix (nomr.)

Predicted label

0.13

0.95

0.87

0.053

0-

True label

Metric	Train	Test
AUC	0.9998	0.967
accuracy	0.995	0.9223
balanced accuracy	0.9934	0.9098
recall_(sens)	0.9981	0.9474
specificity	0.9887	0.8722
precision	0.9944	0.9368
f1_score	0.995	0.9221

Metric	Train	Test
AUC	0.9998	0.967
accuracy	0.995	0.9223
balanced accuracy	0.9934	0.9098
recall_(sens)	0.9981	0.9474
specificity	0.9887	0.8722
precision	0.9944	0.9368
f1_score	0.995	0.9221

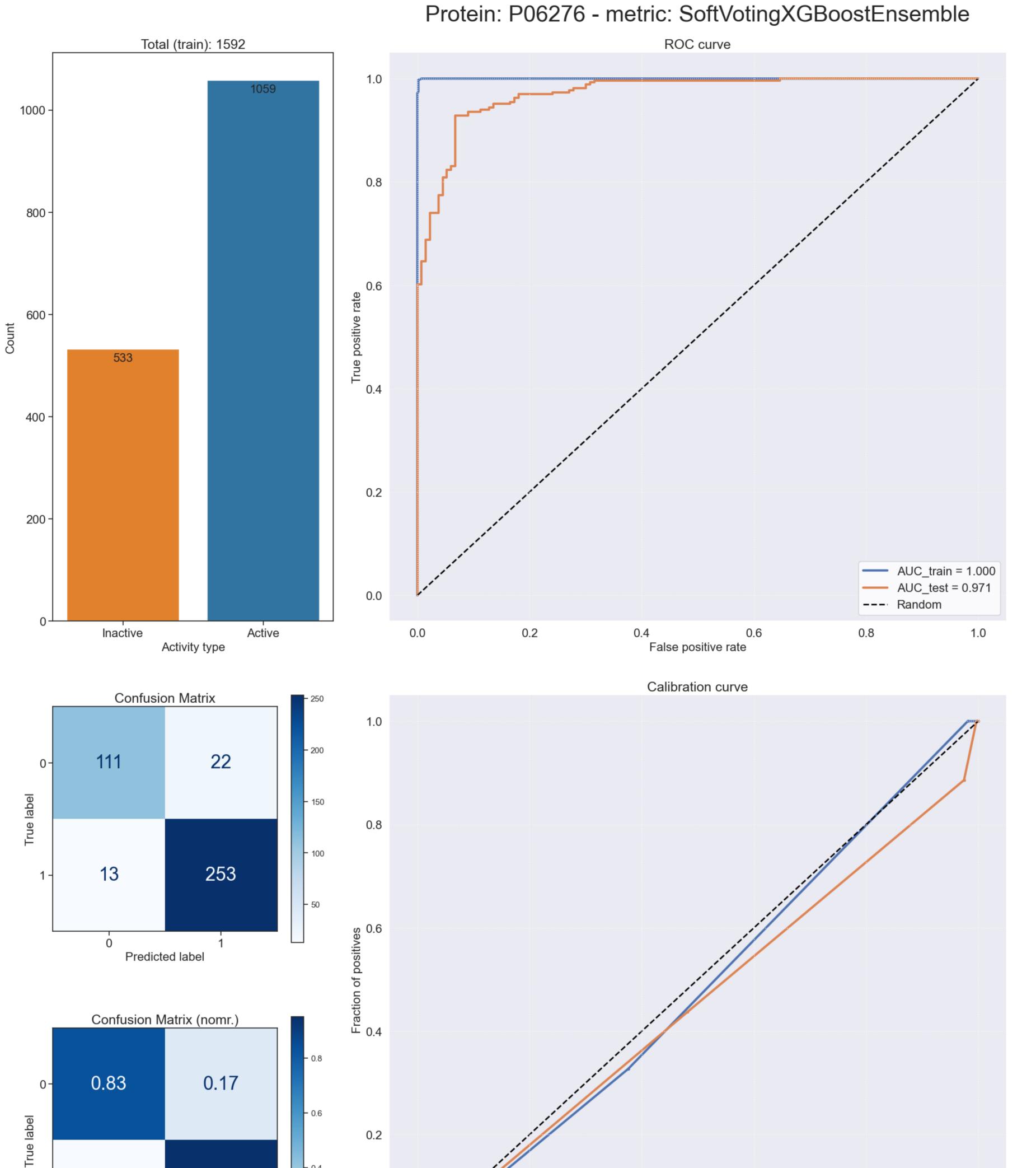
--- train: 0.0072

0.8

0.4 0.6 Mean predicted probability

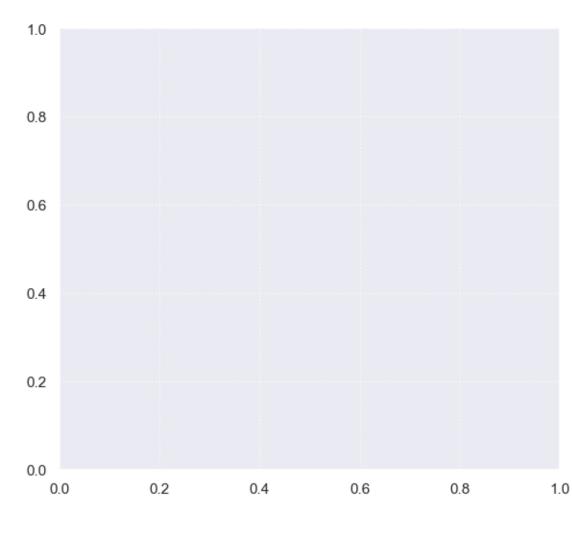
test: 0.062

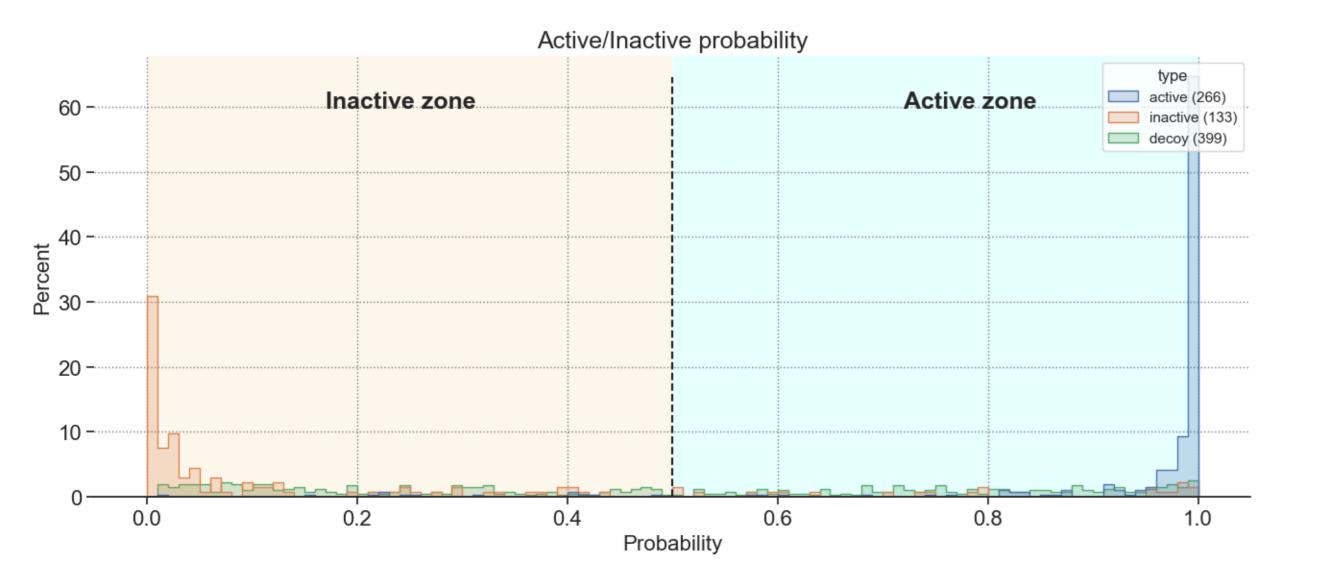
--- perfectly_calibrated



0.2

0.4 0.6 Mean predicted probability





0.0

0.0

- 0.4

0.2

0.95

0.049

Predicted label

Metric	Train	Test
AUC	0.9999	0.9713
accuracy	0.9956	0.9123
balanced accuracy	0.9934	0.8929
recall_(sens)	1.0	0.9511
specificity	0.9869	0.8346
precision	0.9934	0.92
f1_score	0.9956	0.9115

train: 0.0054

test: 0.0612

8.0

perfectly_calibrated