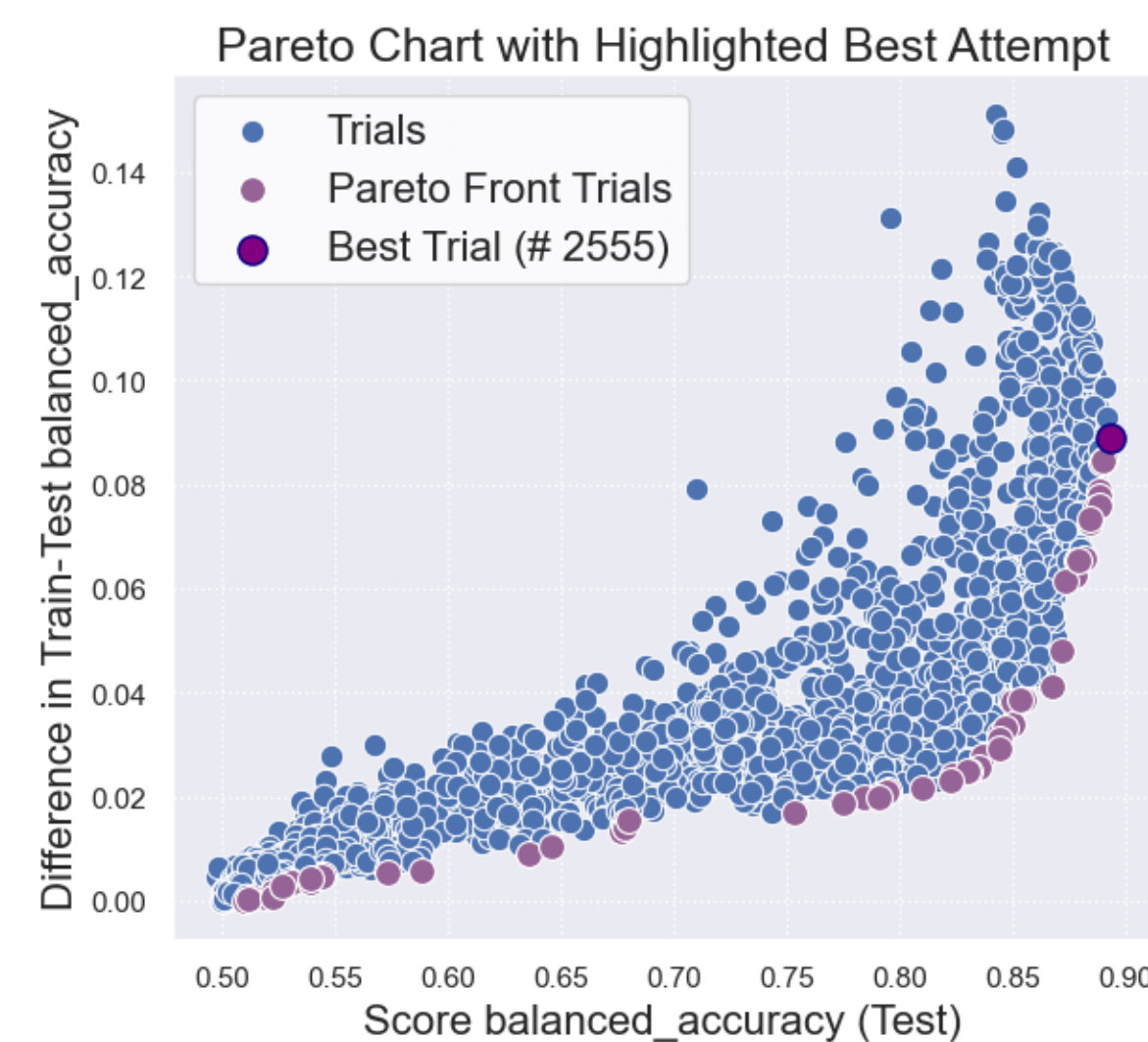
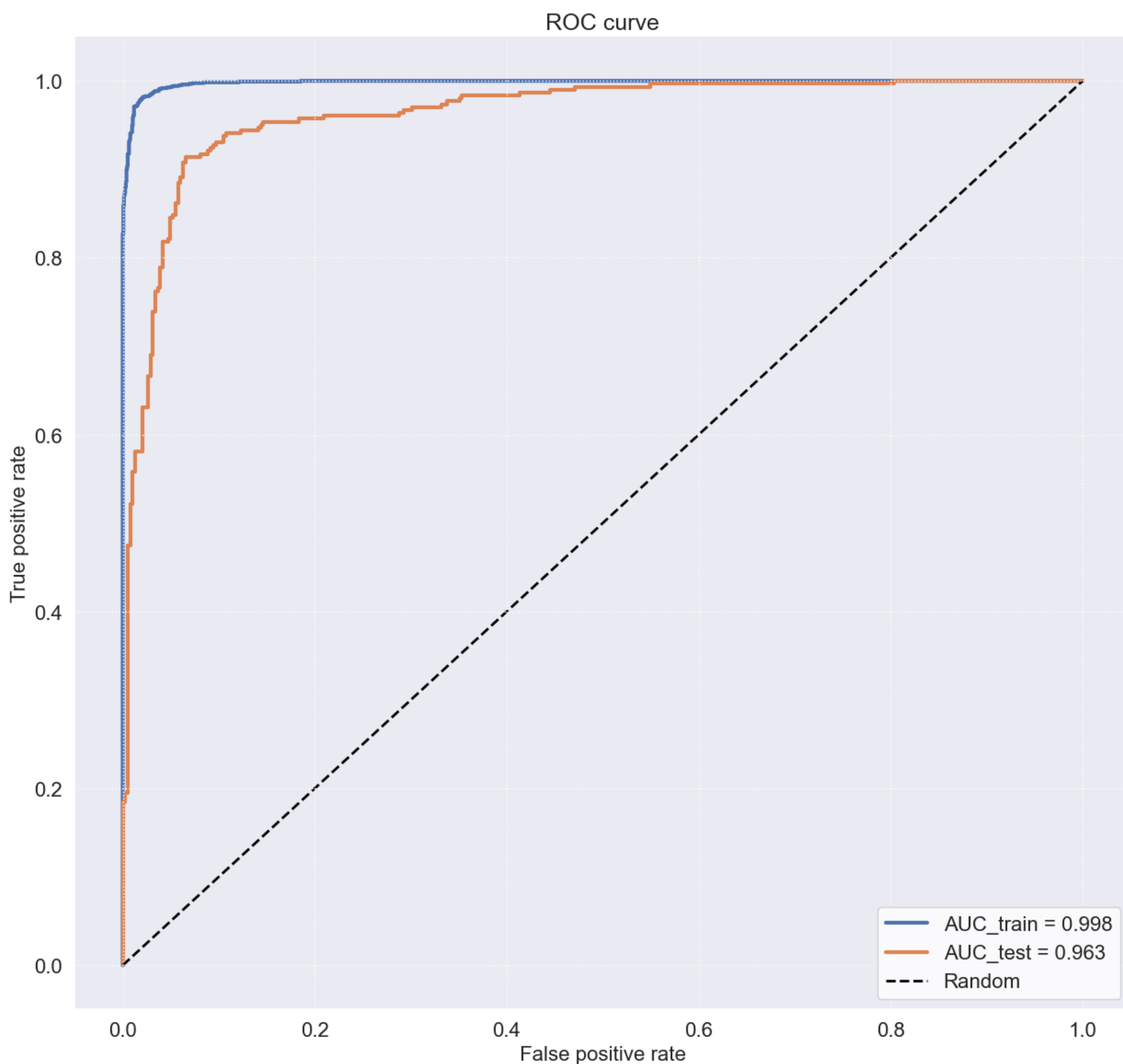
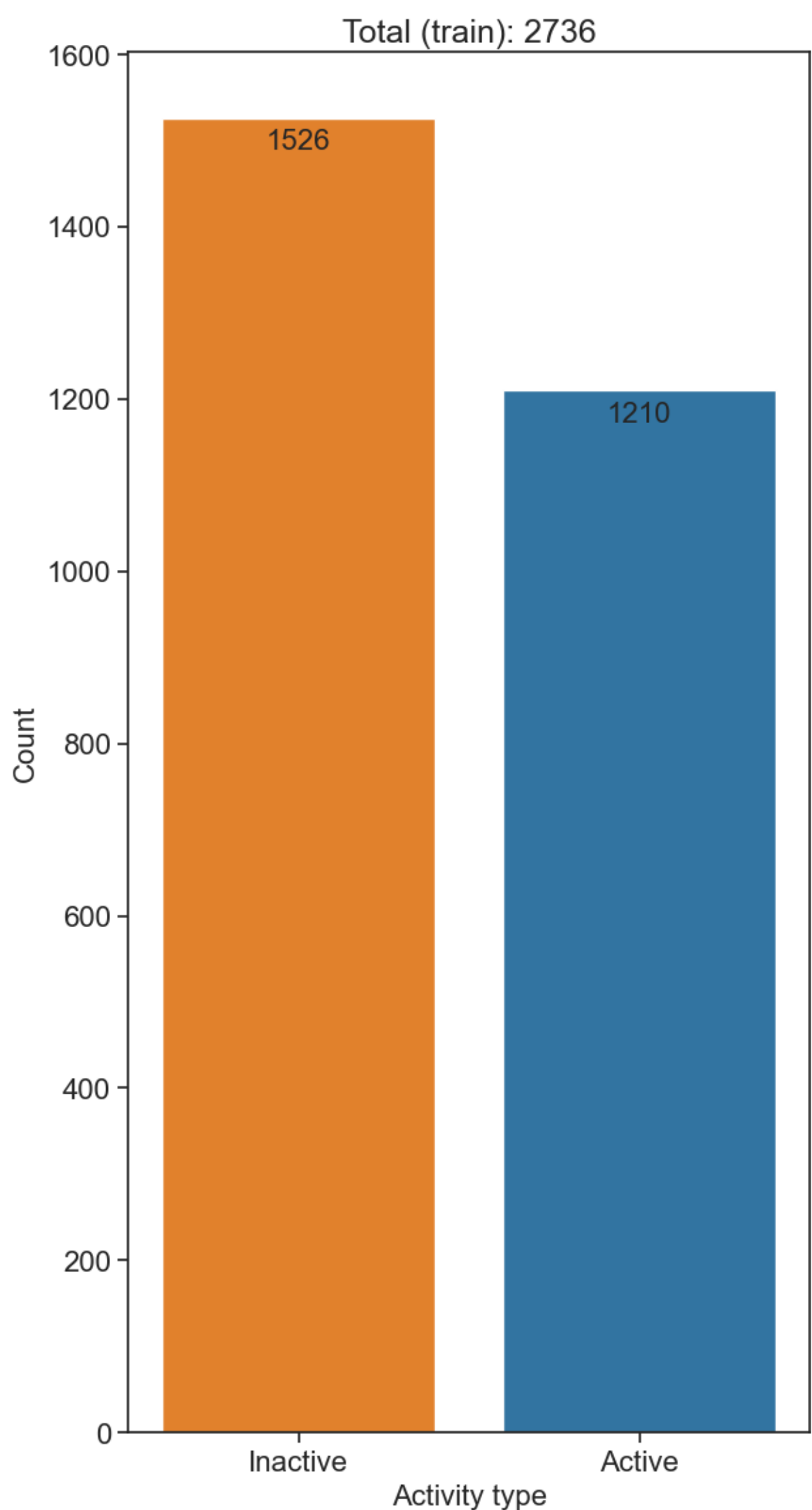
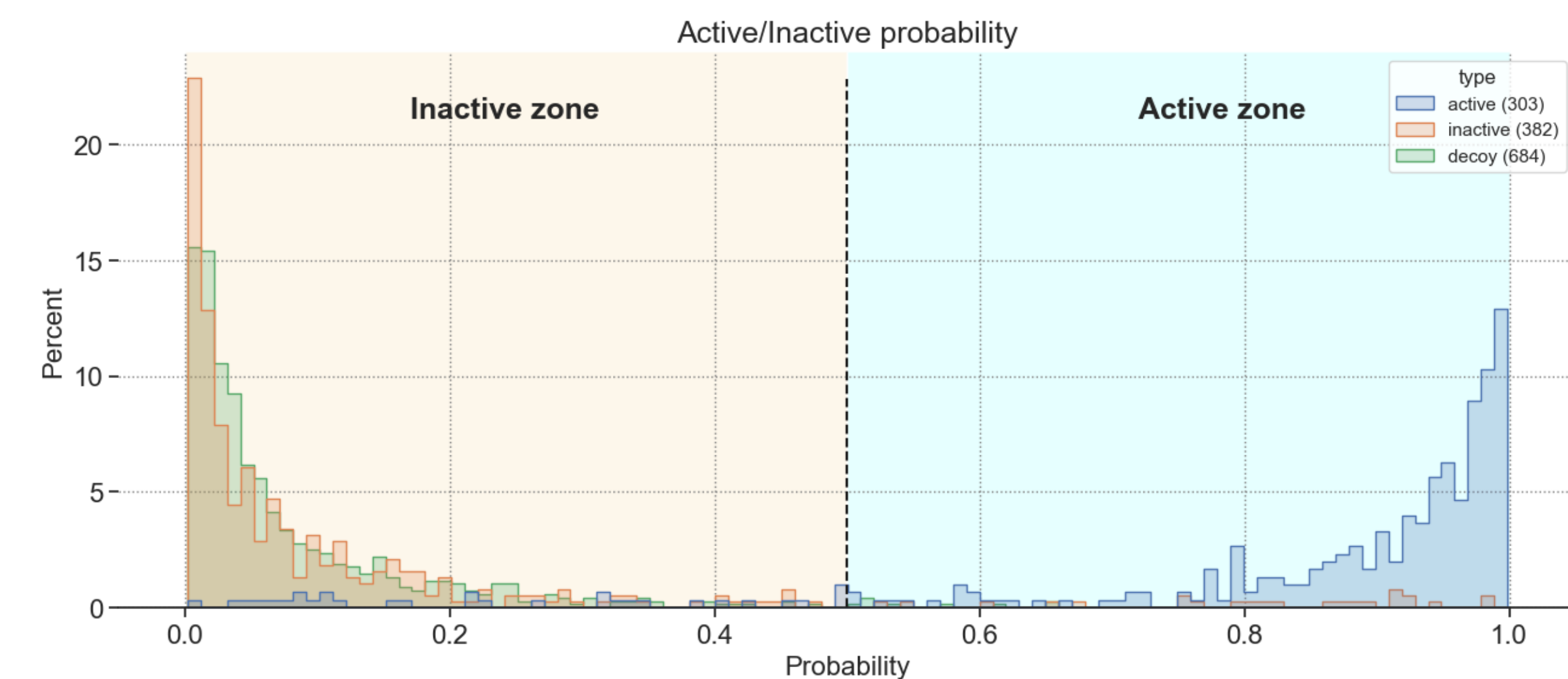
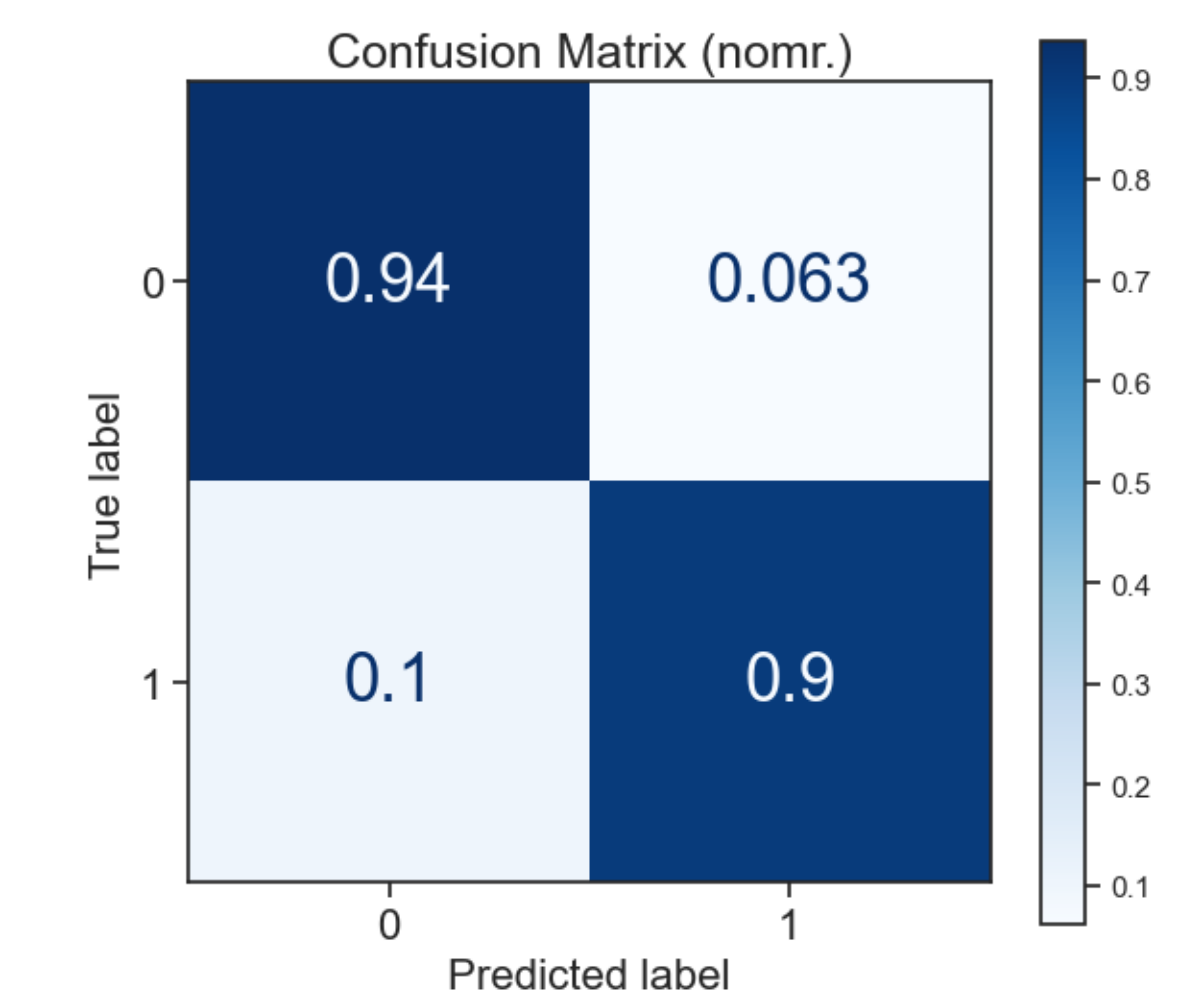
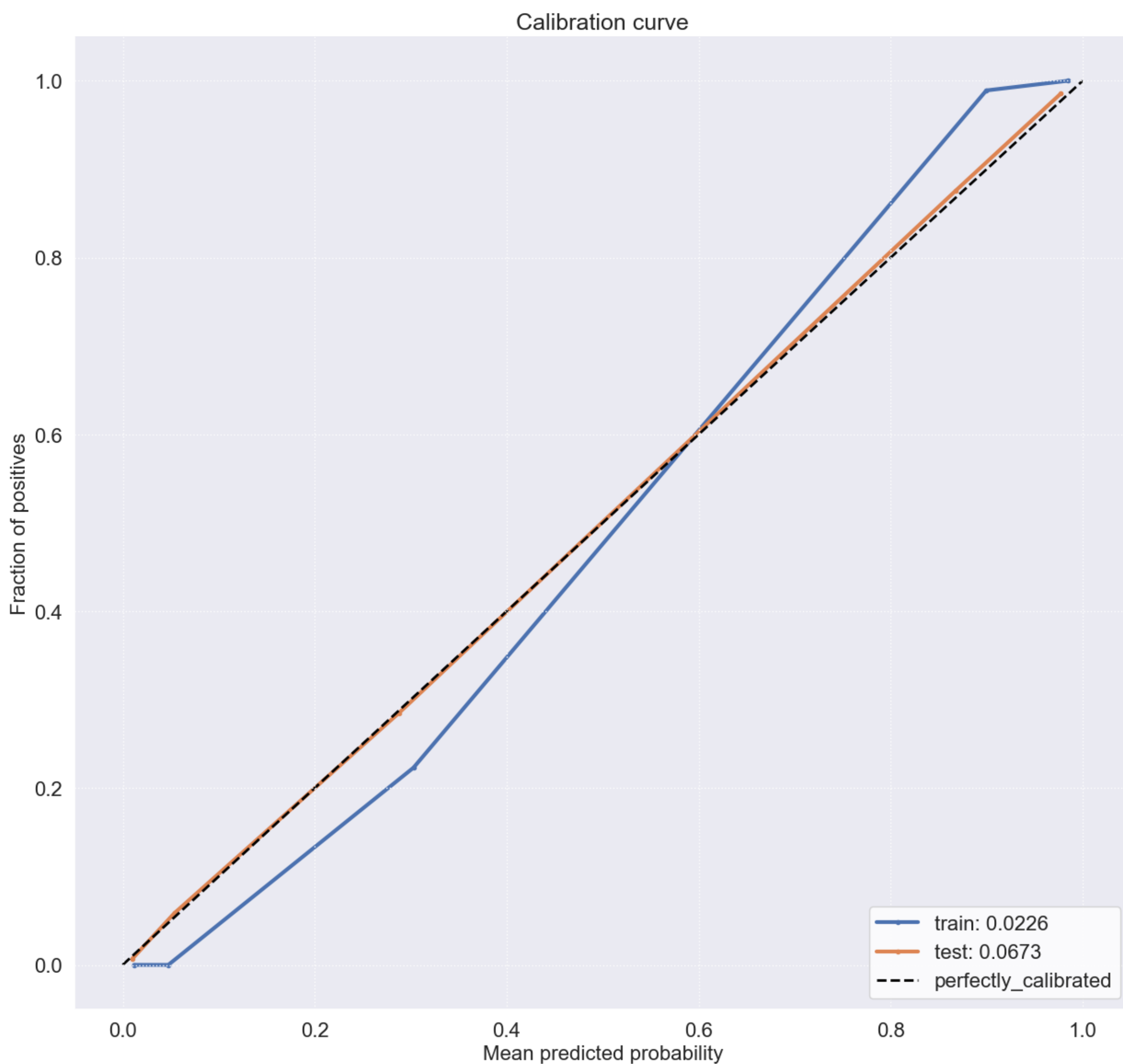
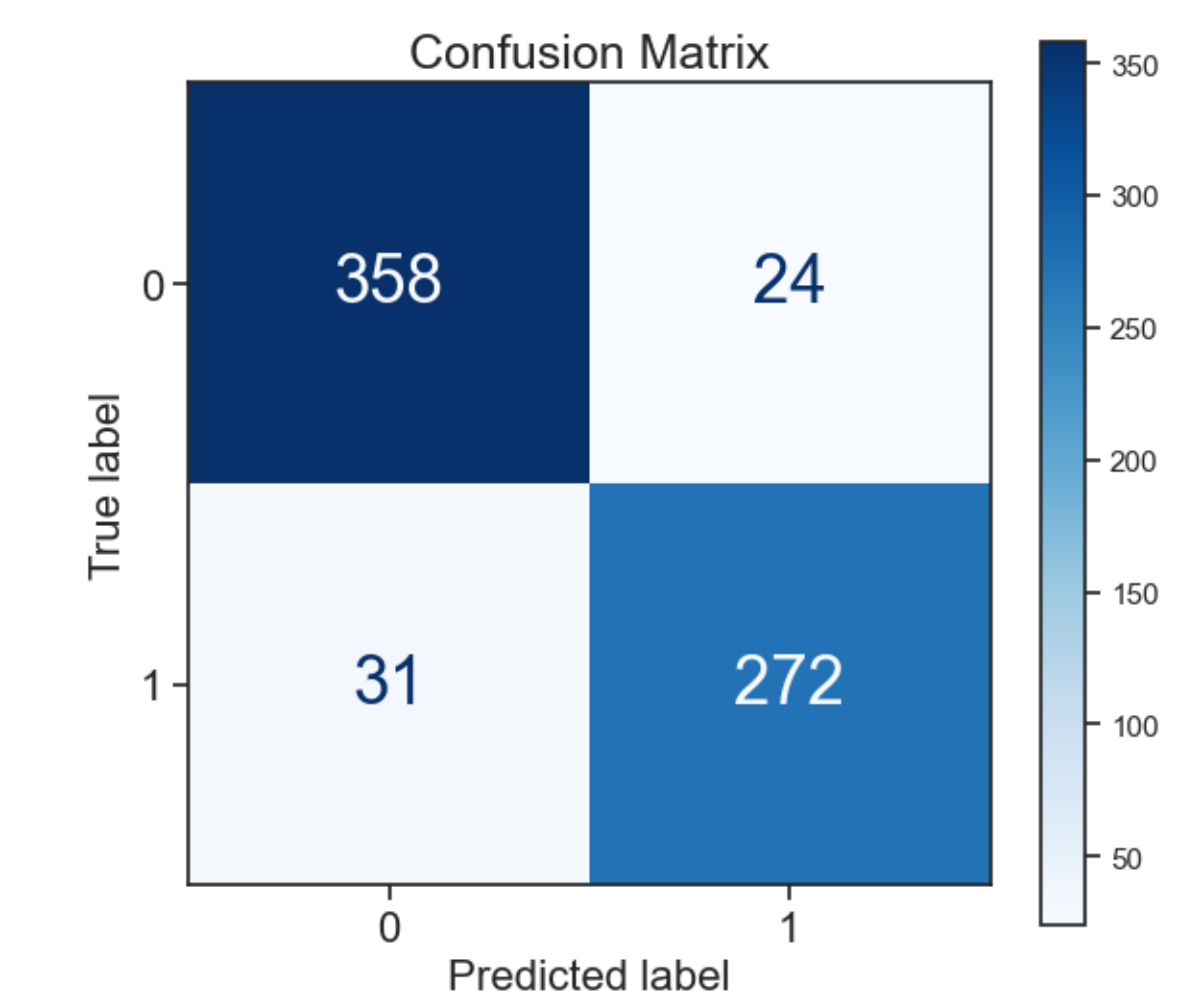


Protein: P08908 - metric: balanced_accuracy

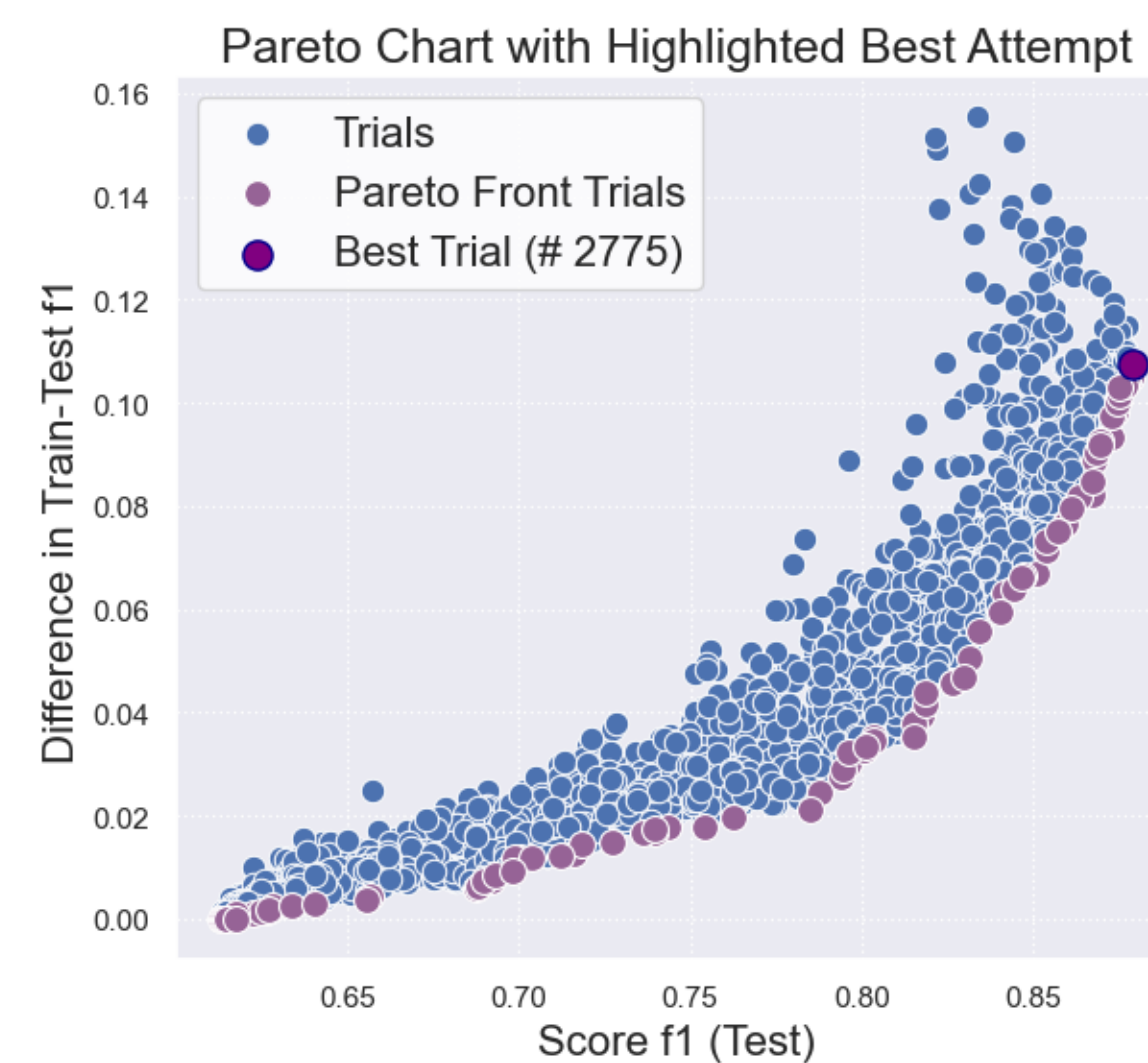
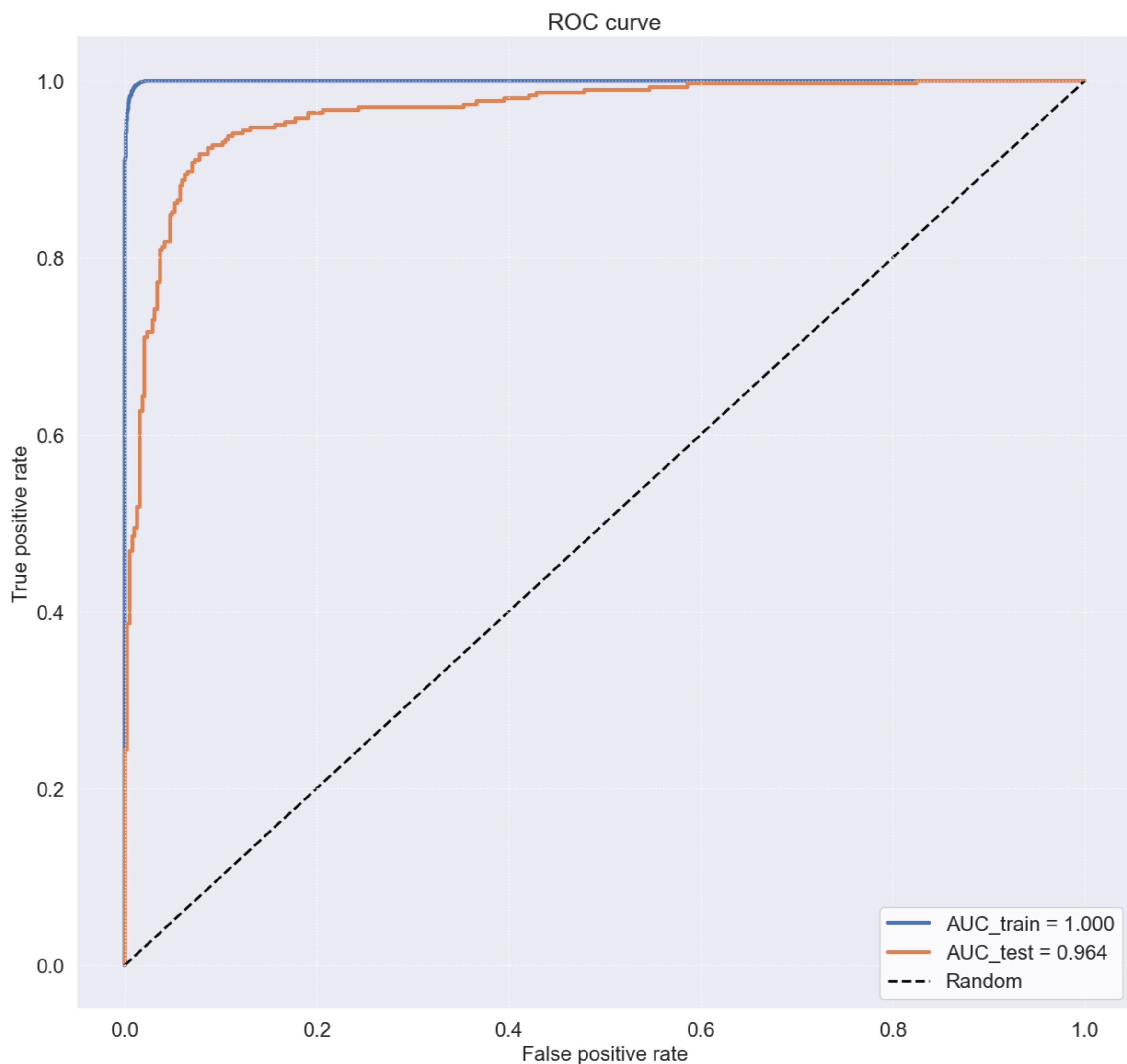
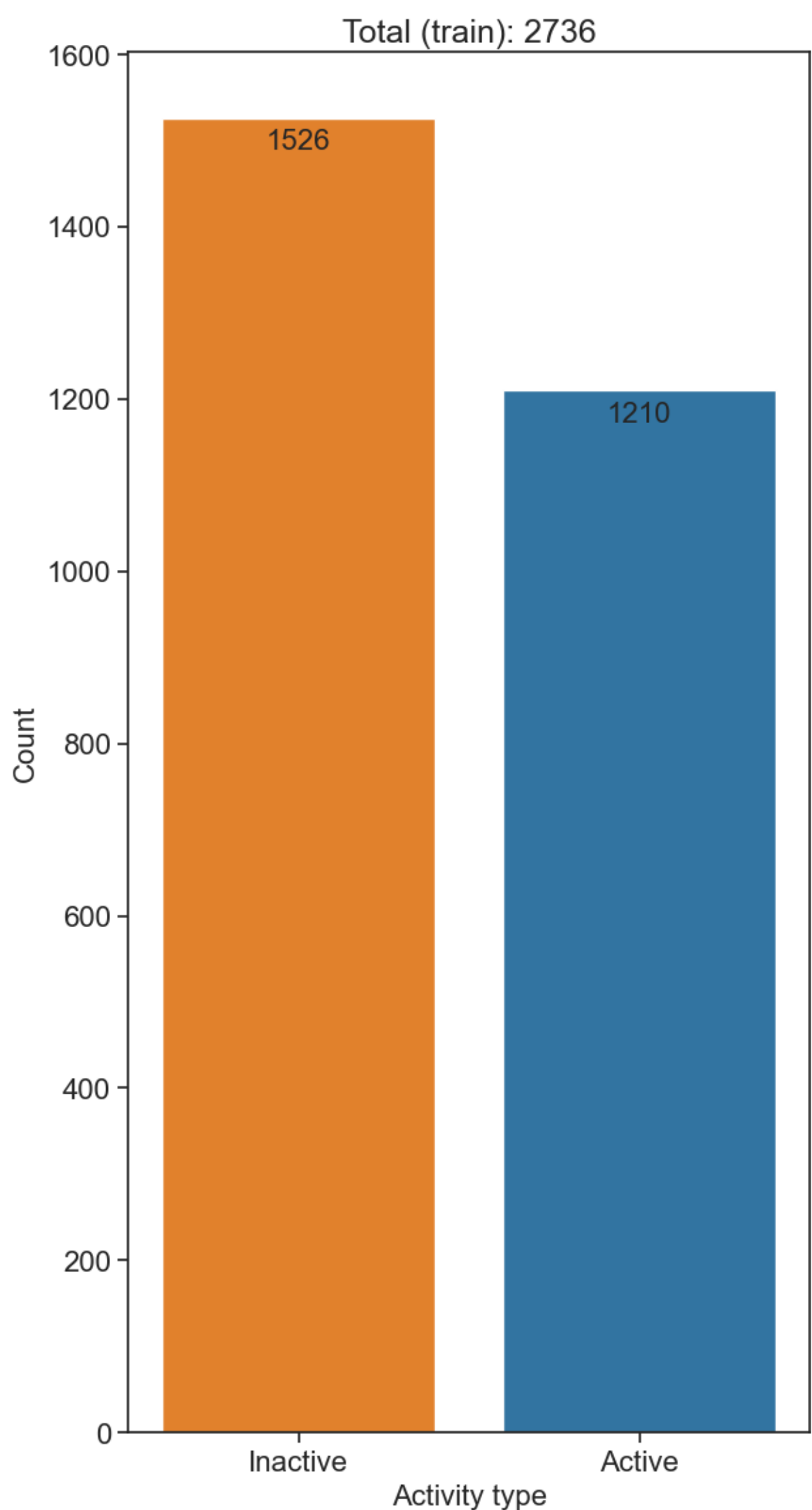


XGBoost Parameters	Value
alpha	2.0621
colsample_bytree	0.7427
gamma	0.3588
lambda	3.7483
learning_rate	0.0171
max_depth	10.0
min_child_weight	1.0
n_estimators	954.0
reg_alpha	0.0039
reg_lambda	0.3138
scale_pos_weight	1.1786
subsample	0.564

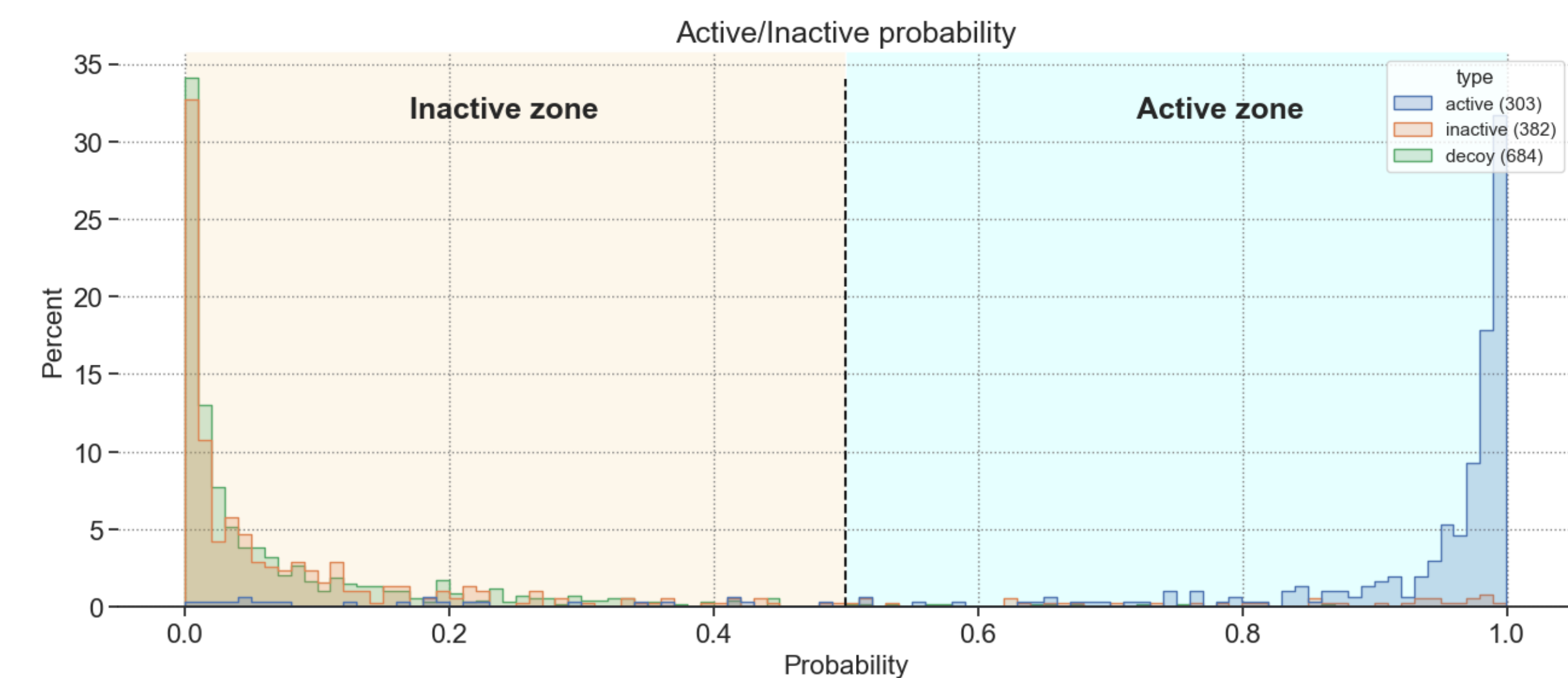
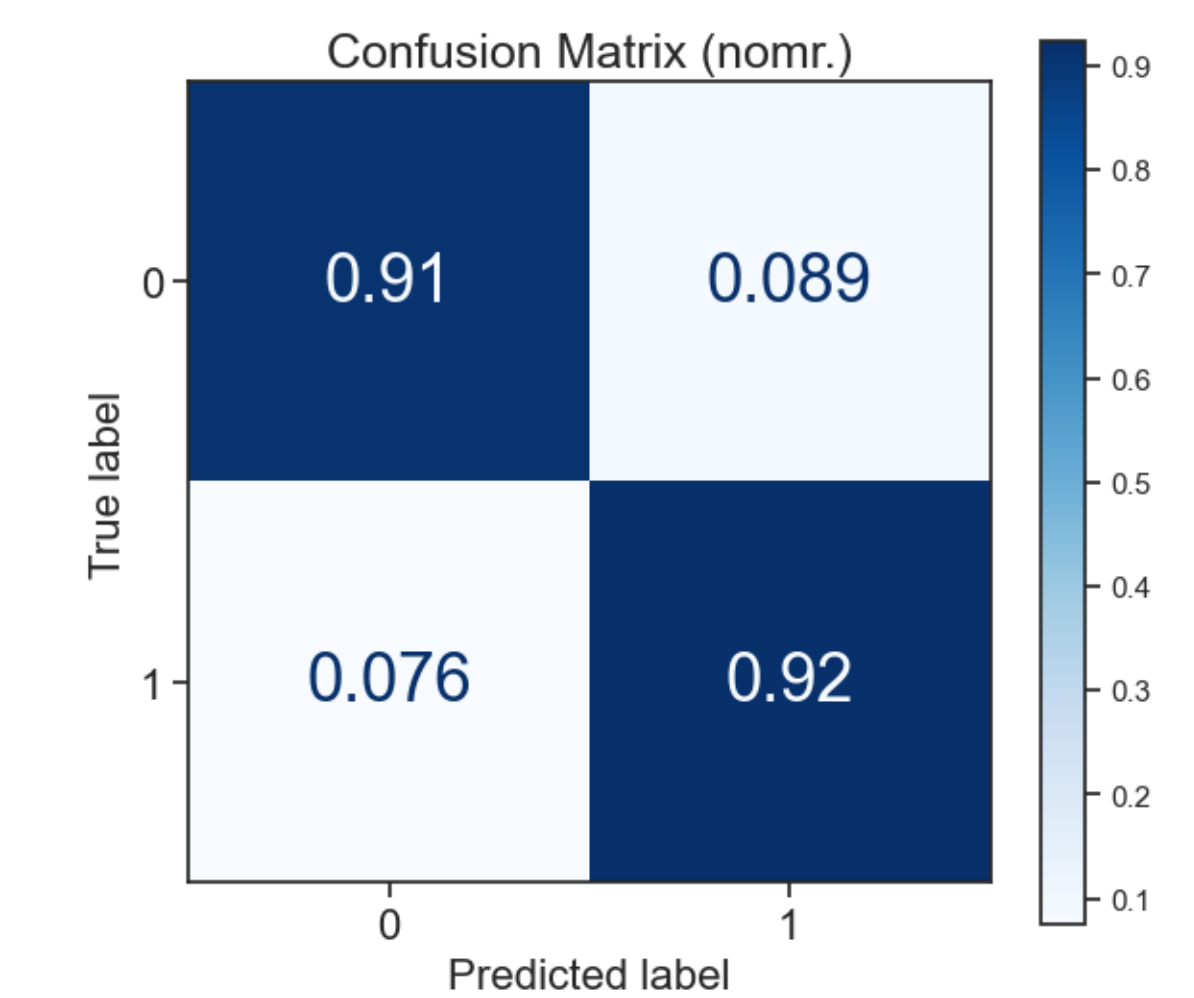
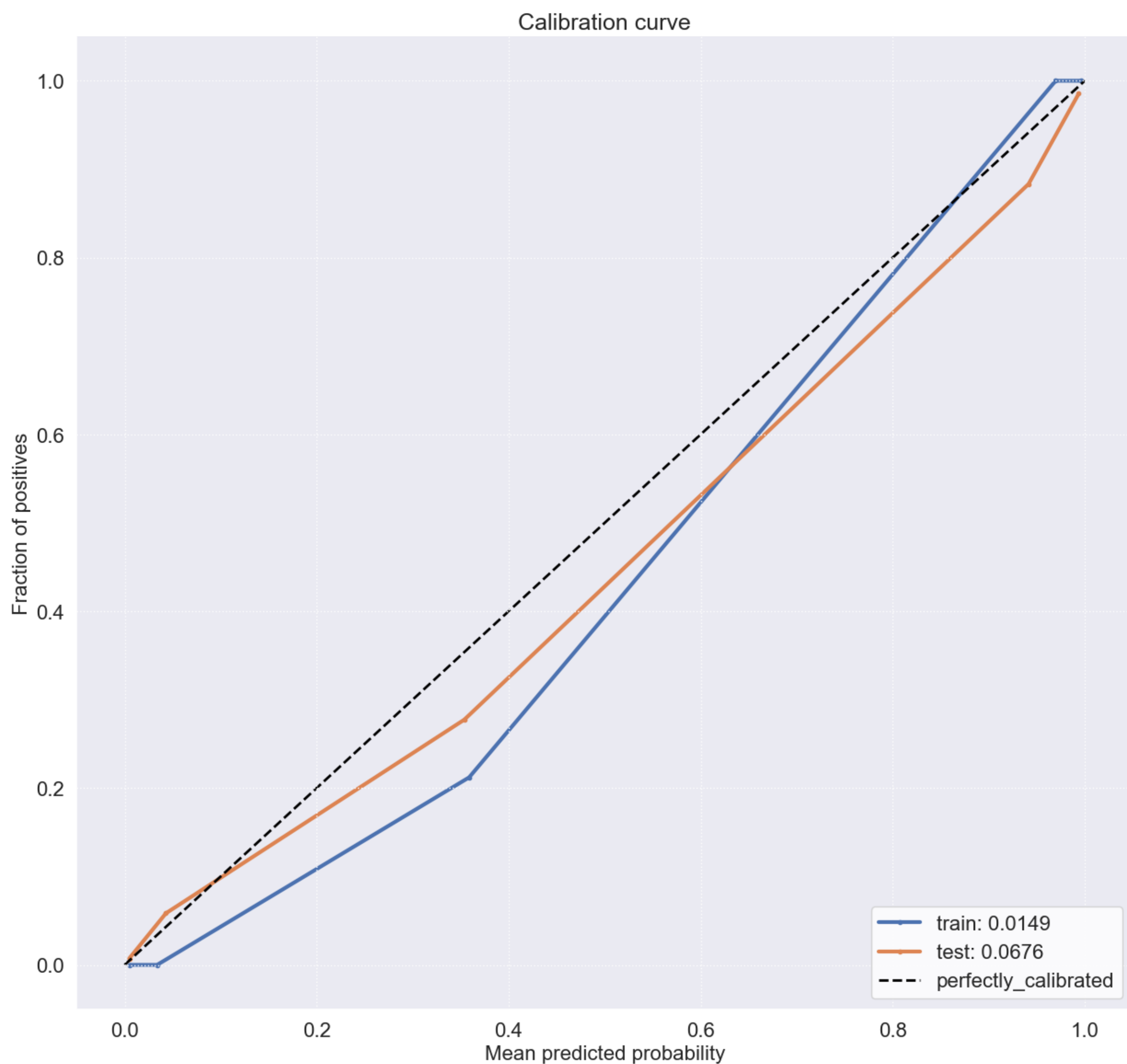
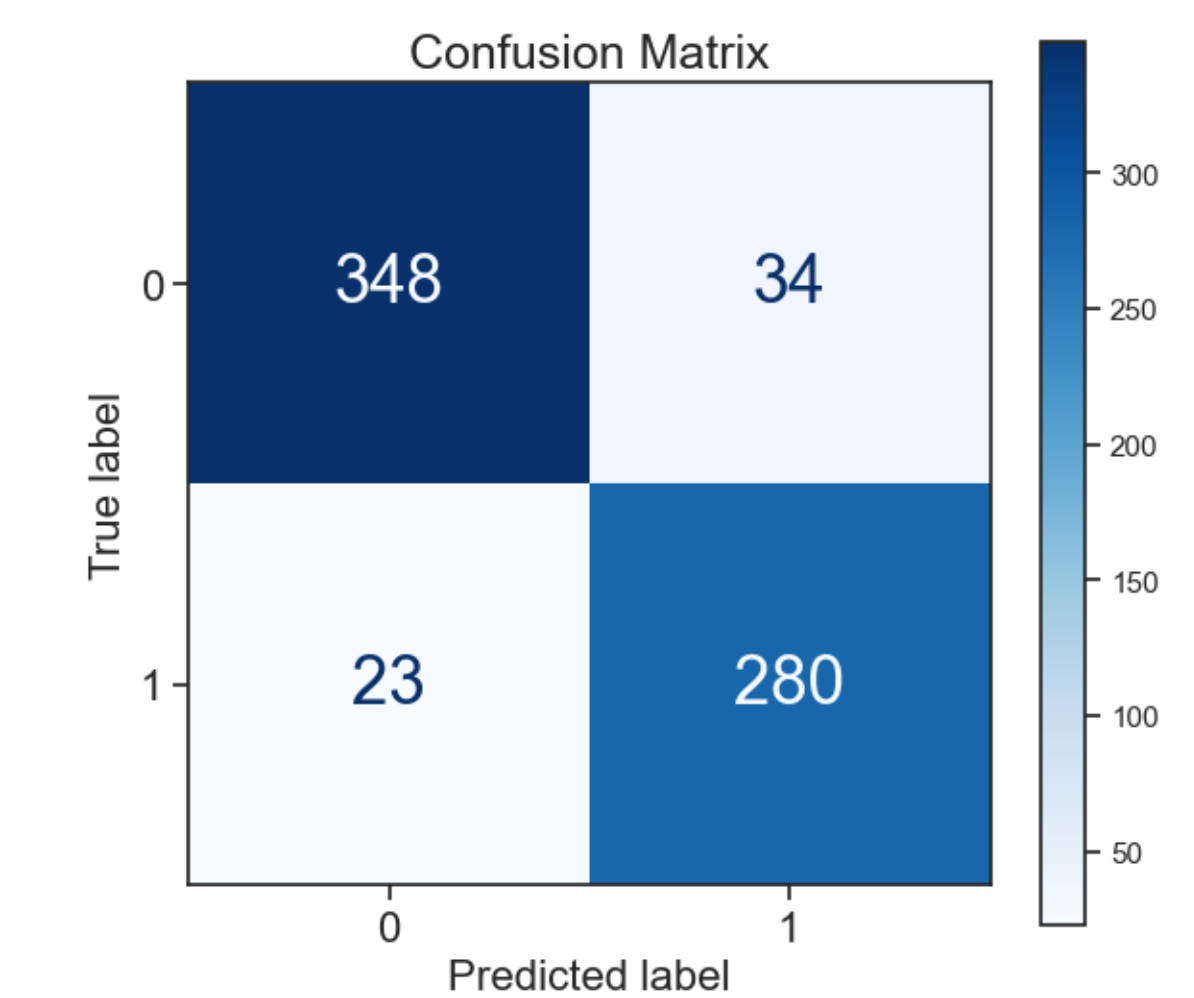


Metric	Train	Test
AUC	0.9981	0.9628
accuracy	0.9803	0.9197
balanced accuracy	0.9804	0.9174
recall_(sens)	0.9818	0.8977
specificity	0.979	0.9372
precision	0.9738	0.9189
f1_score	0.9803	0.9196

Protein: P08908 - metric: f1

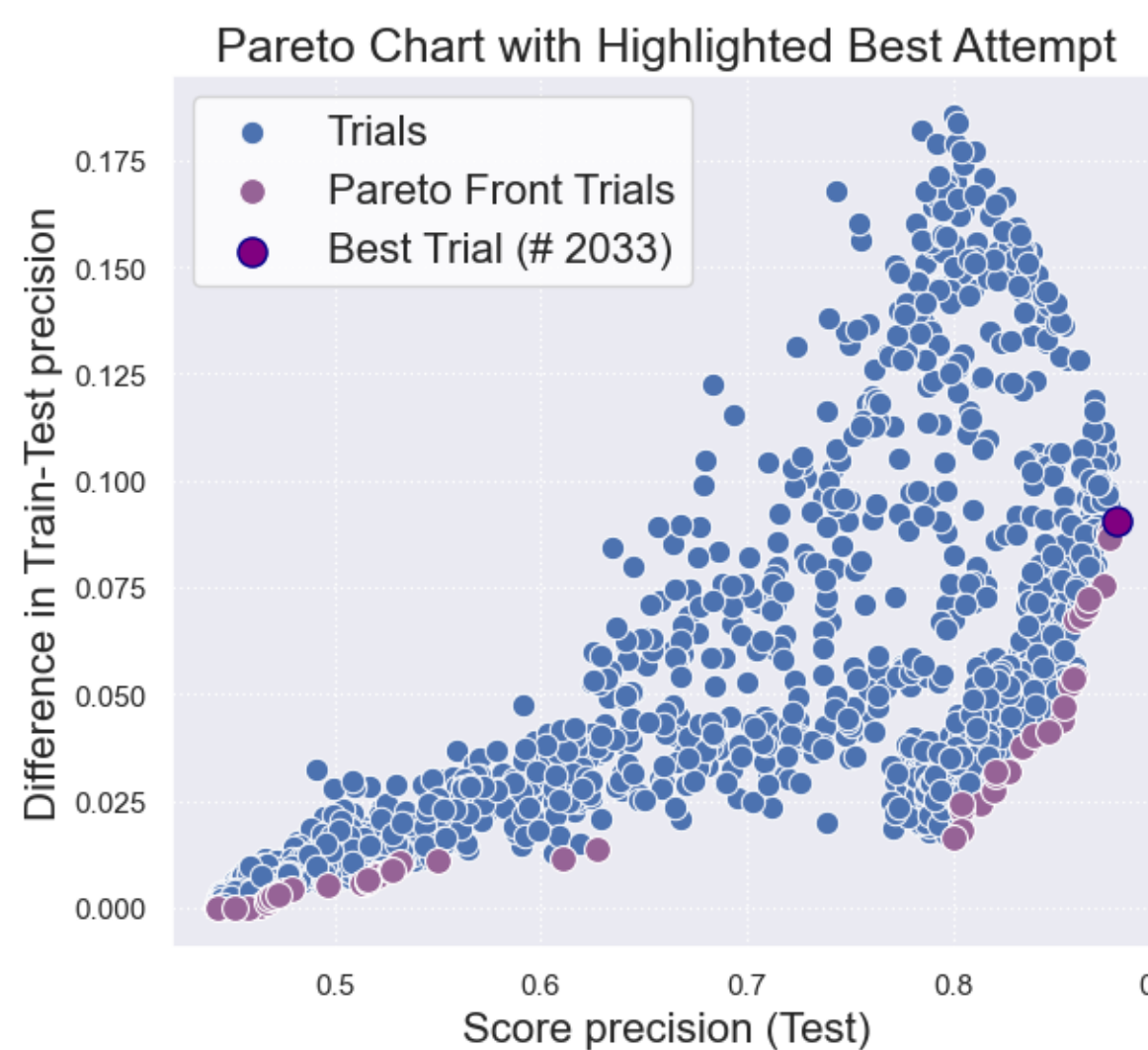
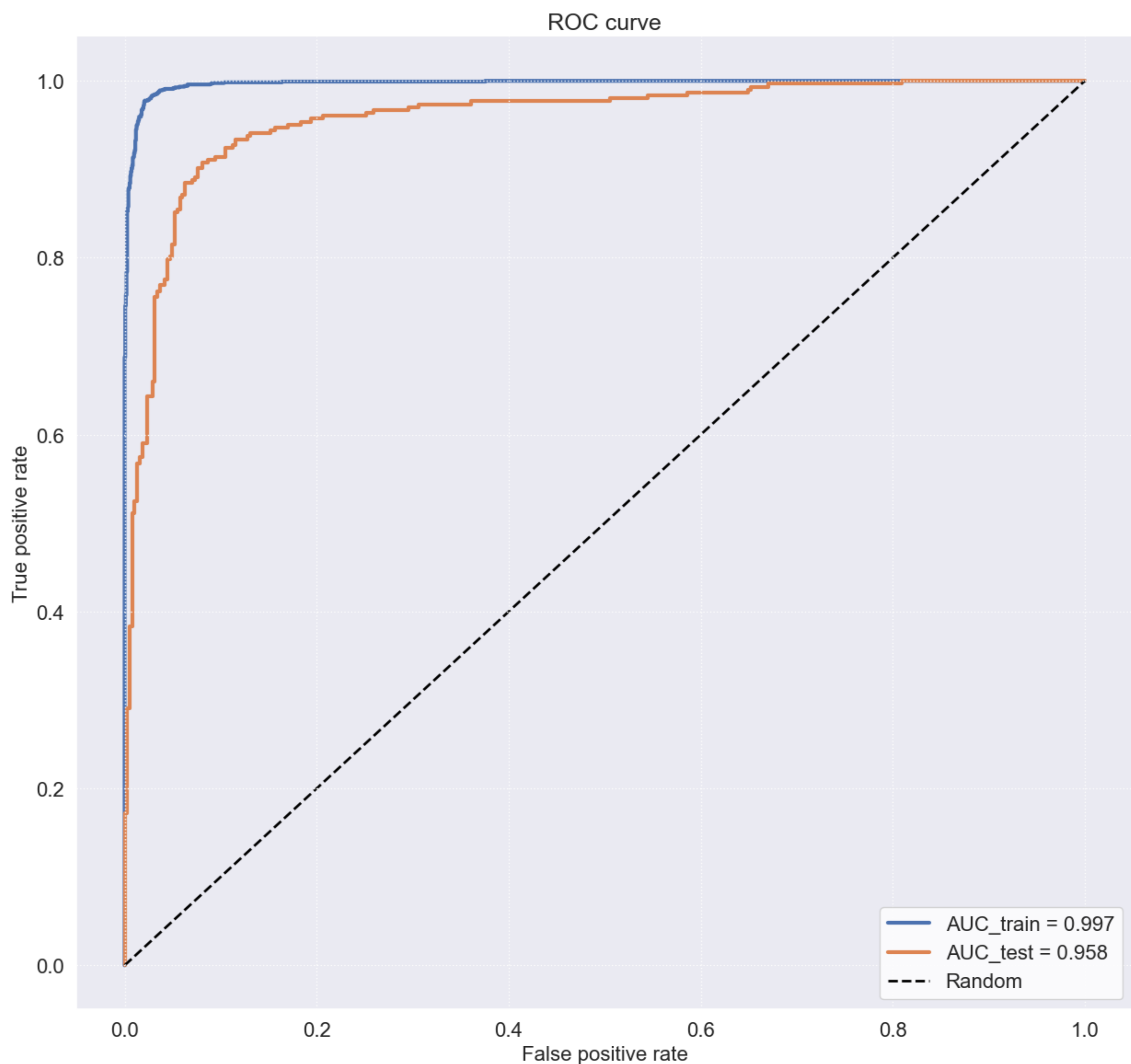
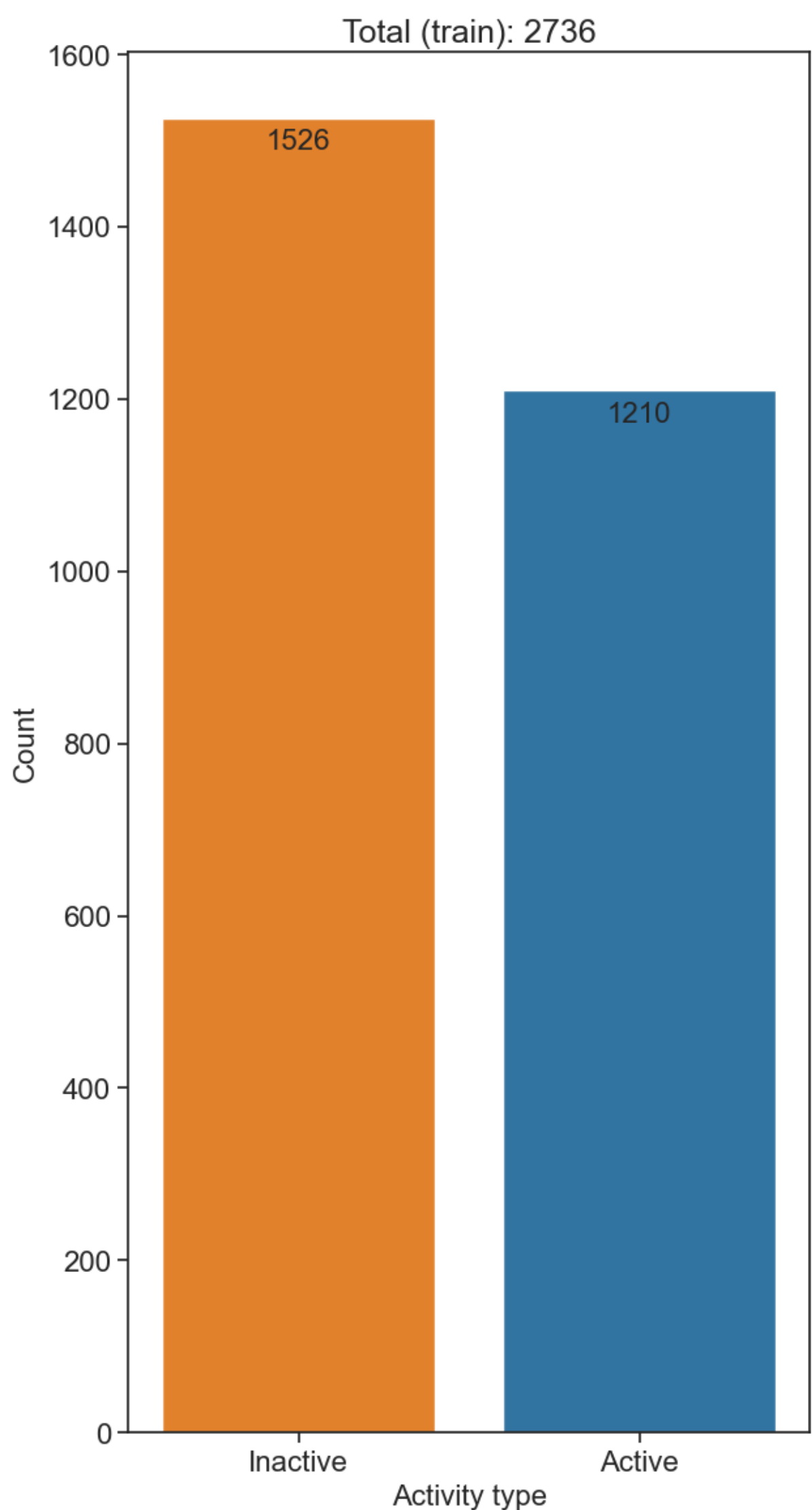


XGBoost Parameters	Value
alpha	4.1316
colsample_bytree	0.7639
gamma	0.0422
lambda	4.8516
learning_rate	0.0423
max_depth	10.0
min_child_weight	1.0
n_estimators	628.0
reg_alpha	0.8244
reg_lambda	0.33
scale_pos_weight	3.445
subsample	0.5454

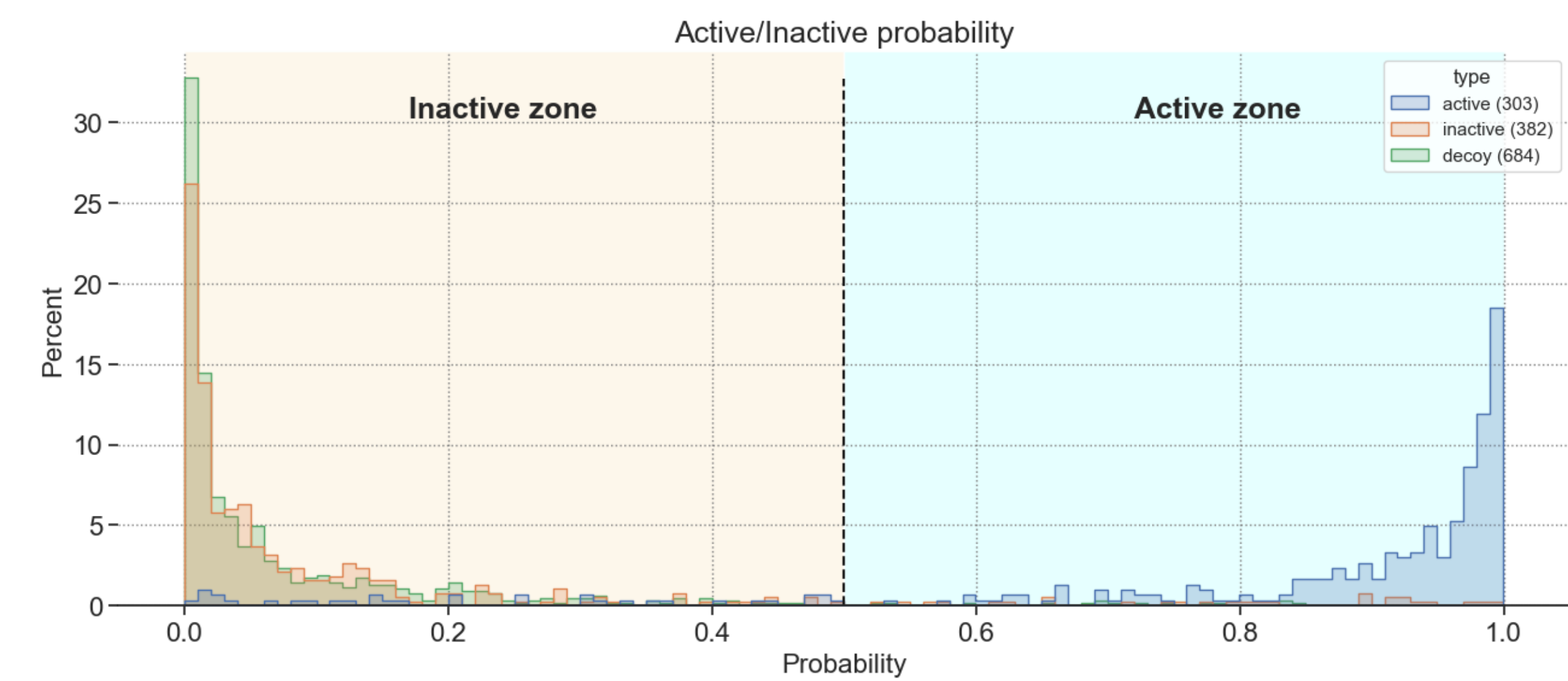
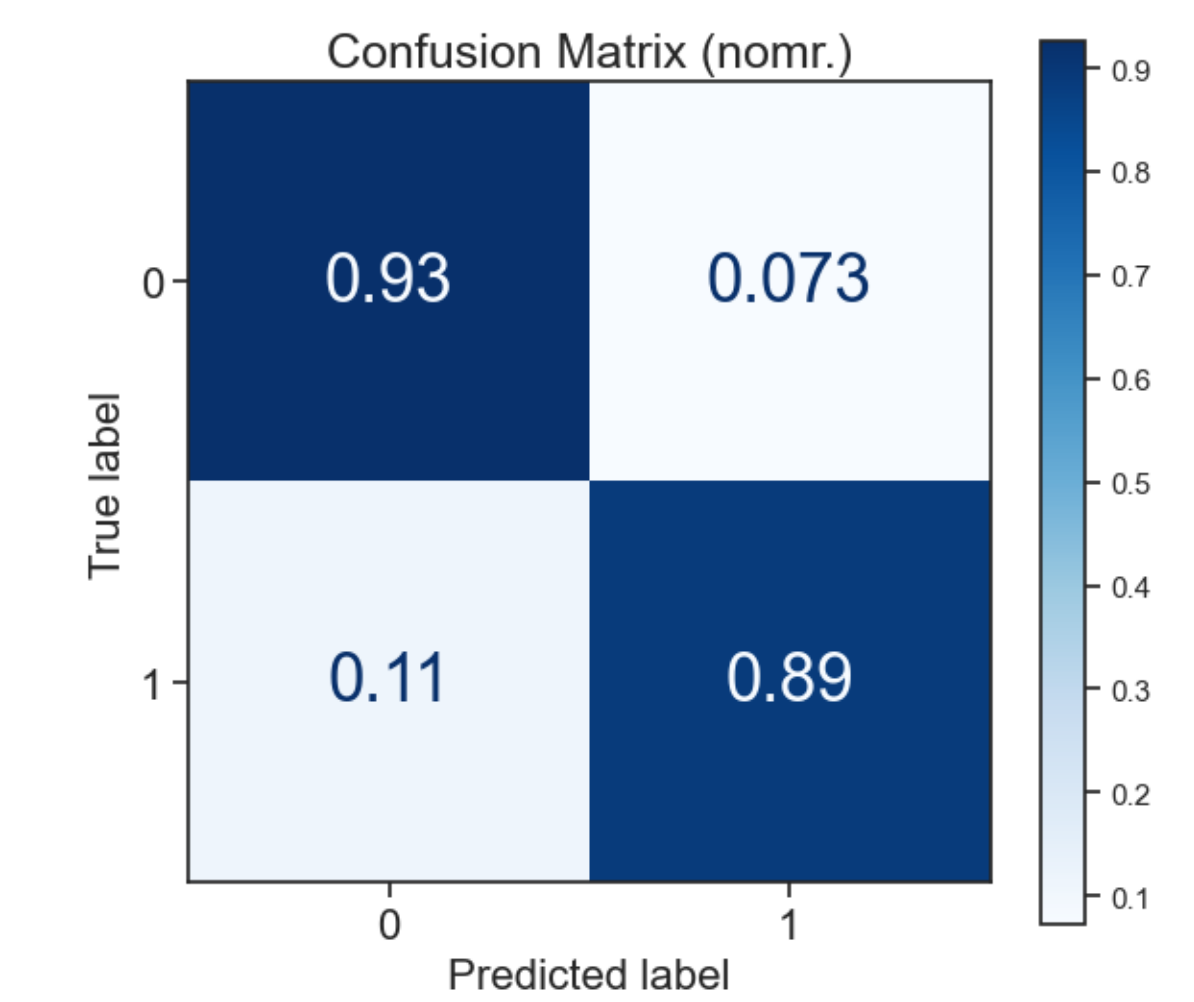
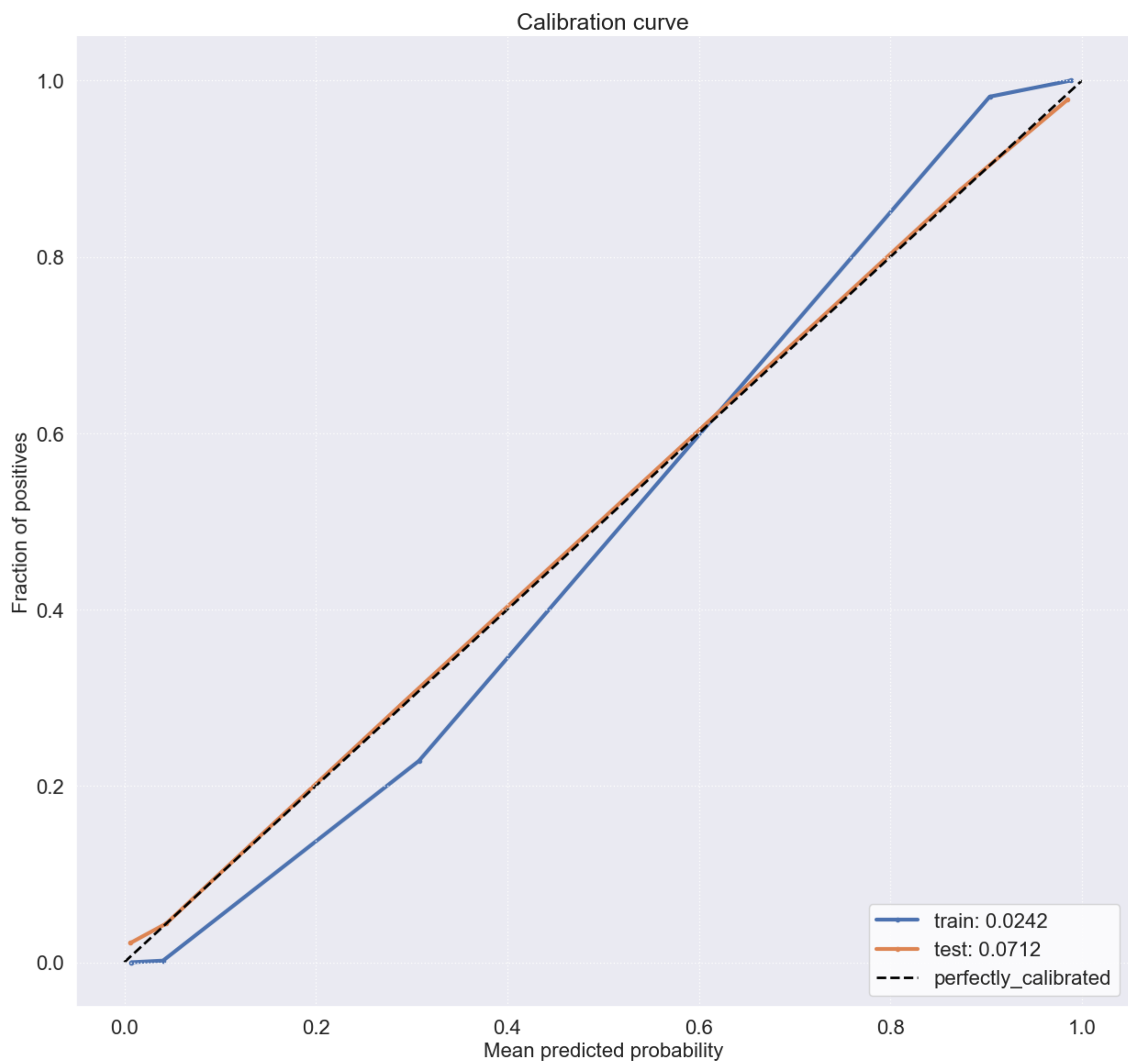
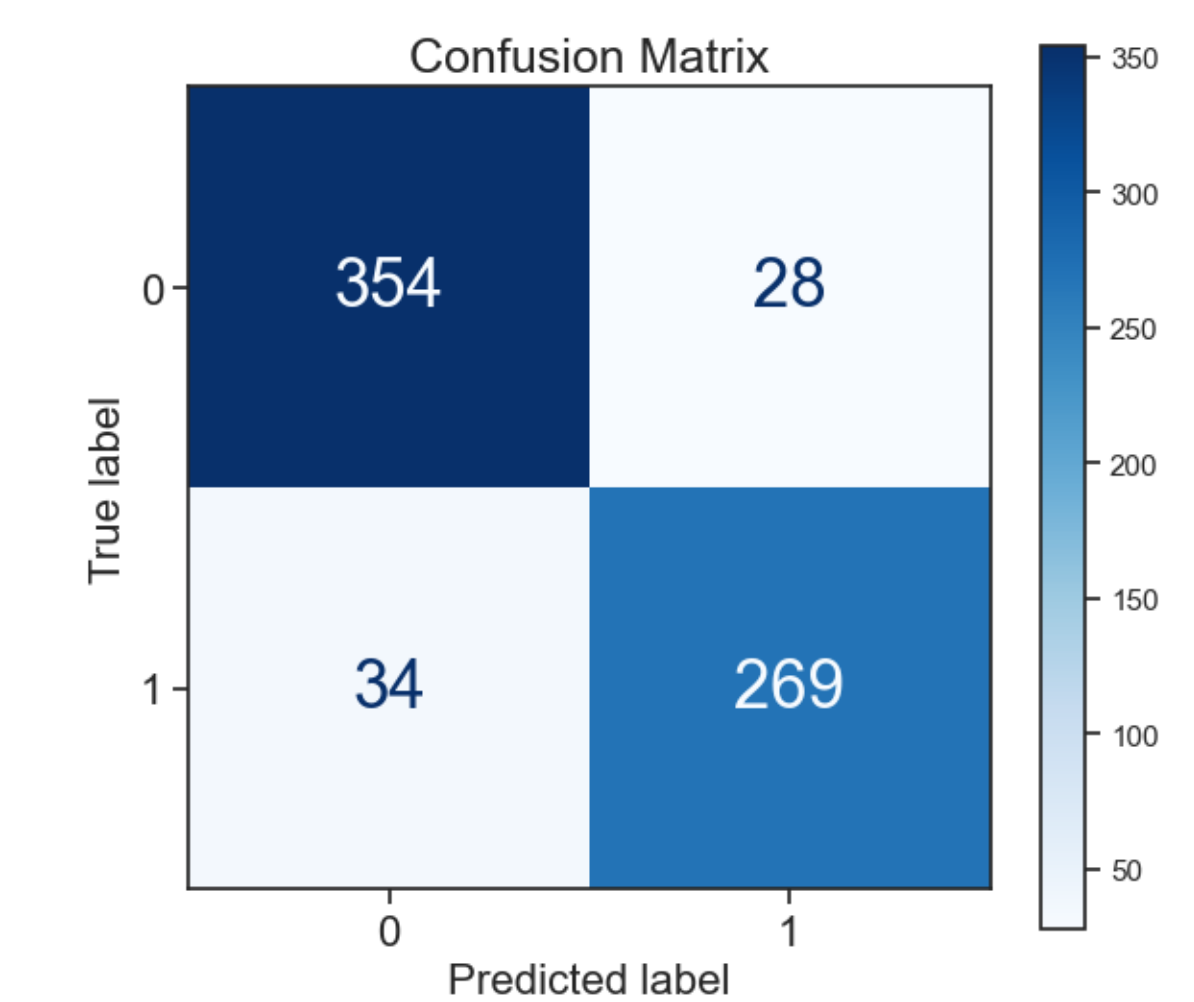


Metric	Train	Test
AUC	0.9997	0.9638
accuracy	0.9857	0.9168
balanced accuracy	0.9872	0.9175
recall_(sens)	1.0	0.9241
specificity	0.9744	0.911
precision	0.9688	0.8917
f1_score	0.9858	0.9169

Protein: P08908 - metric: precision

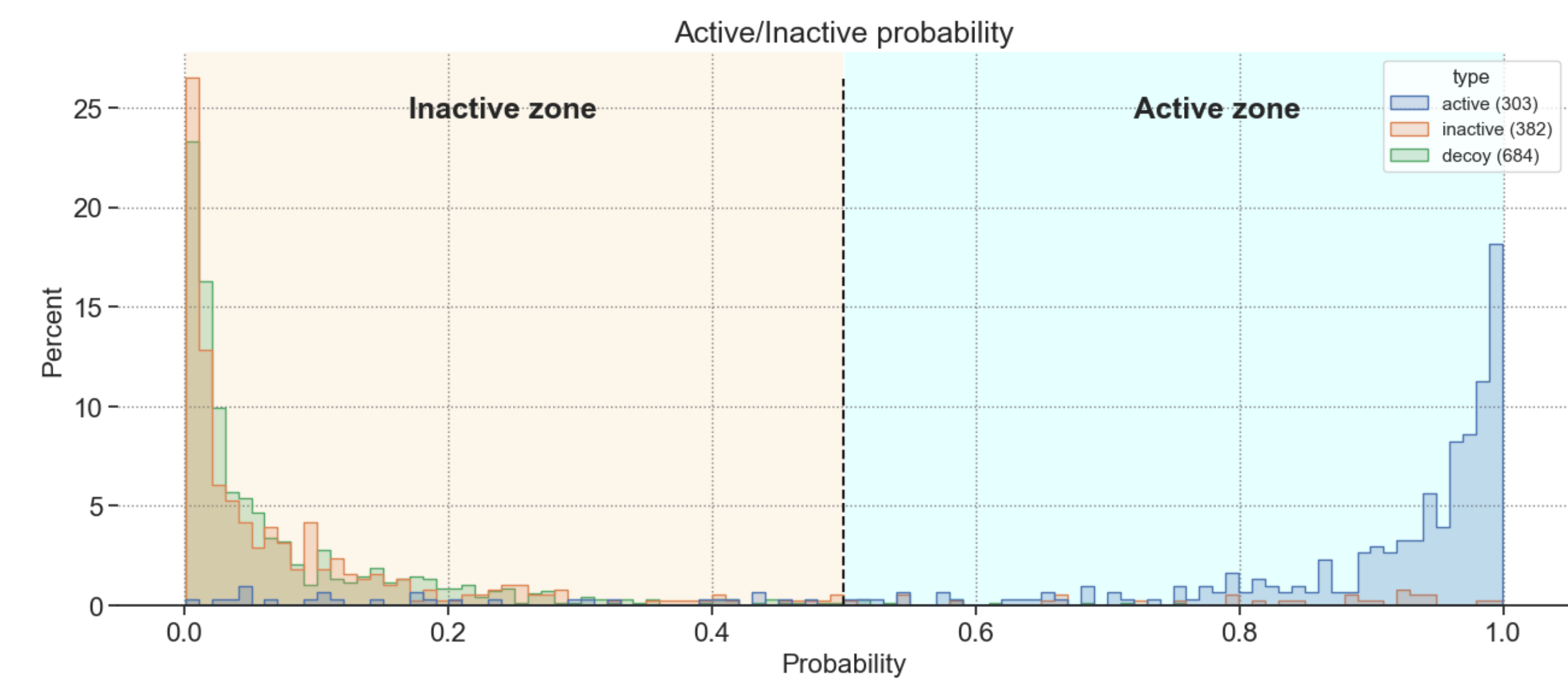
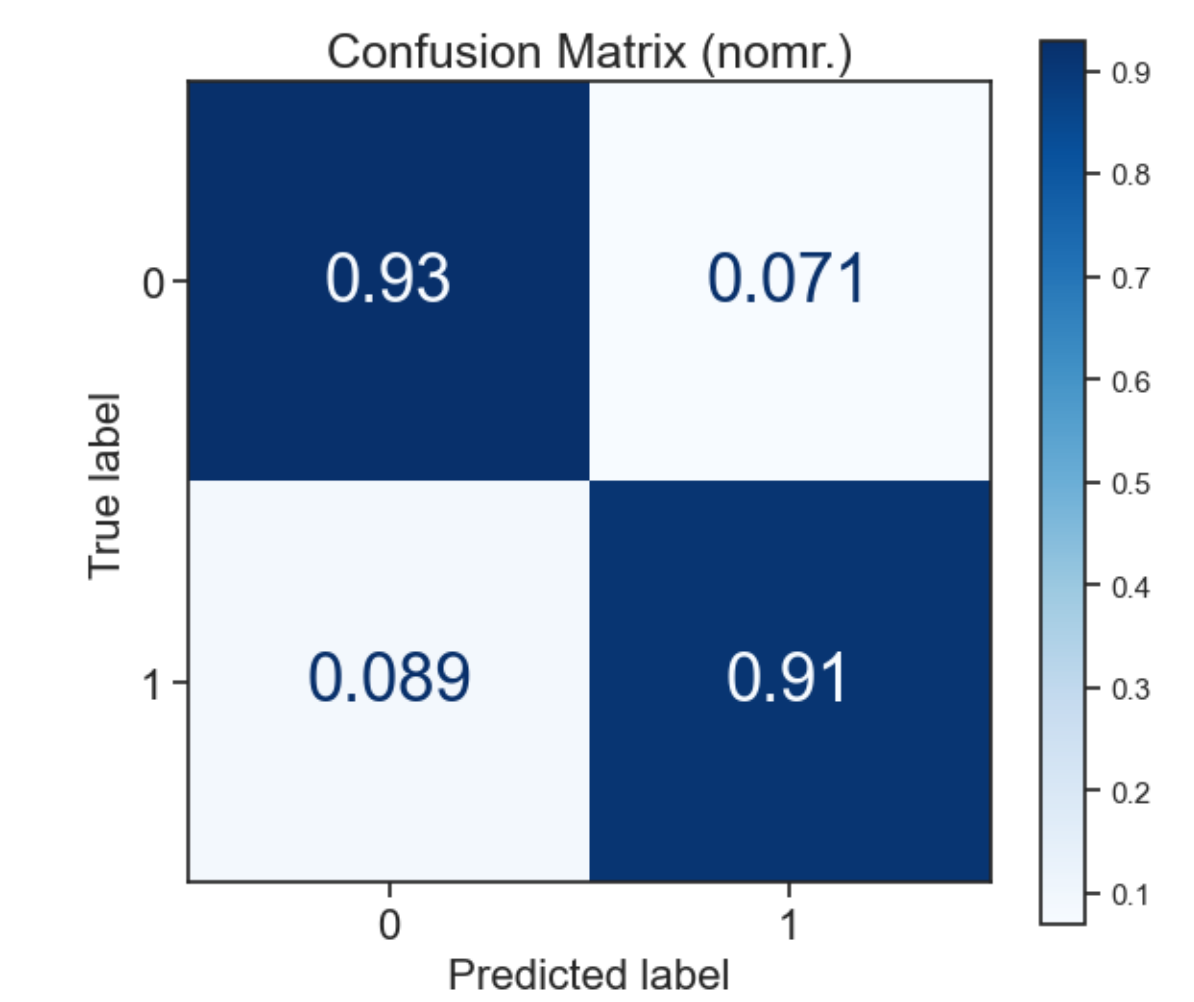
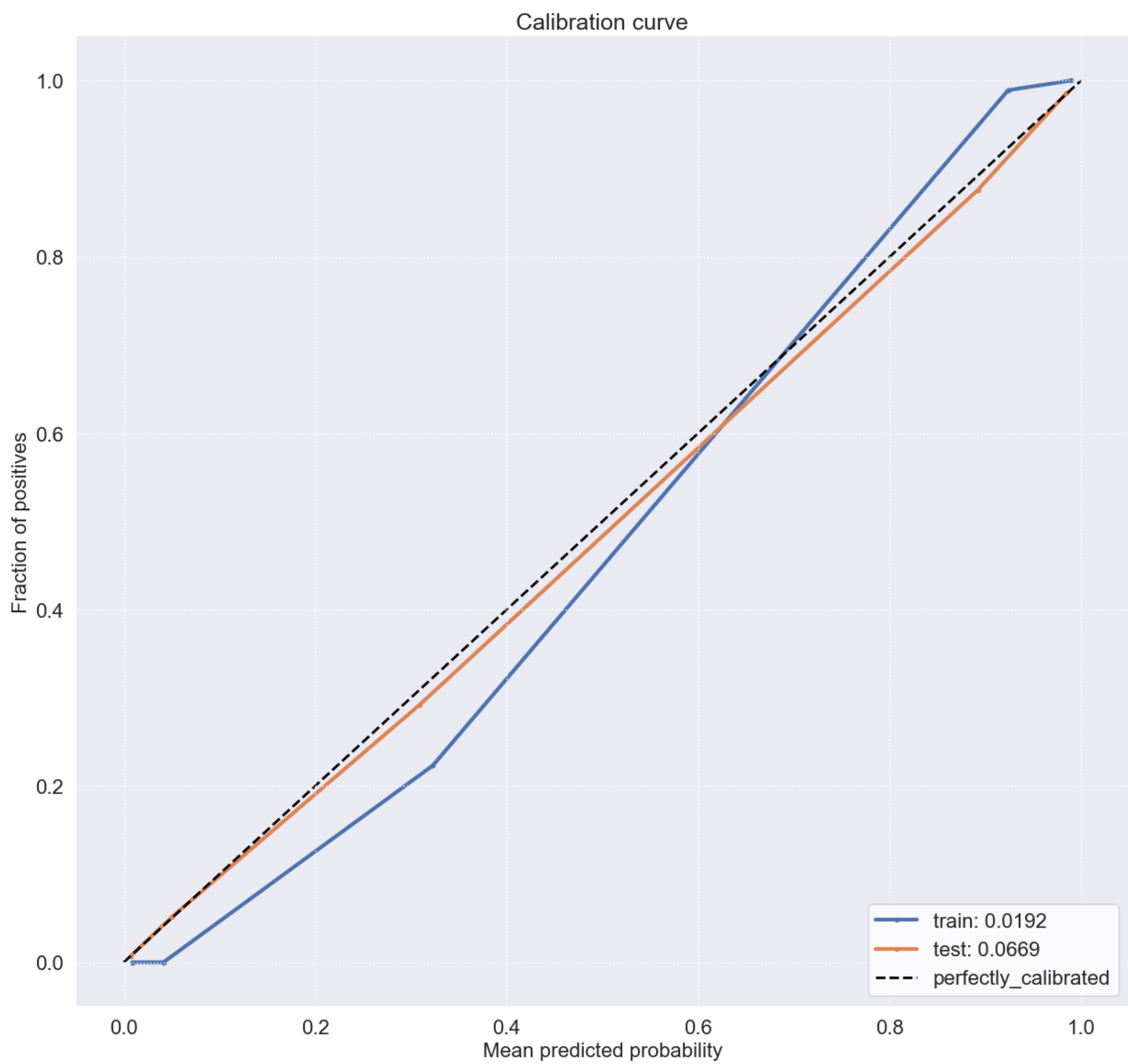
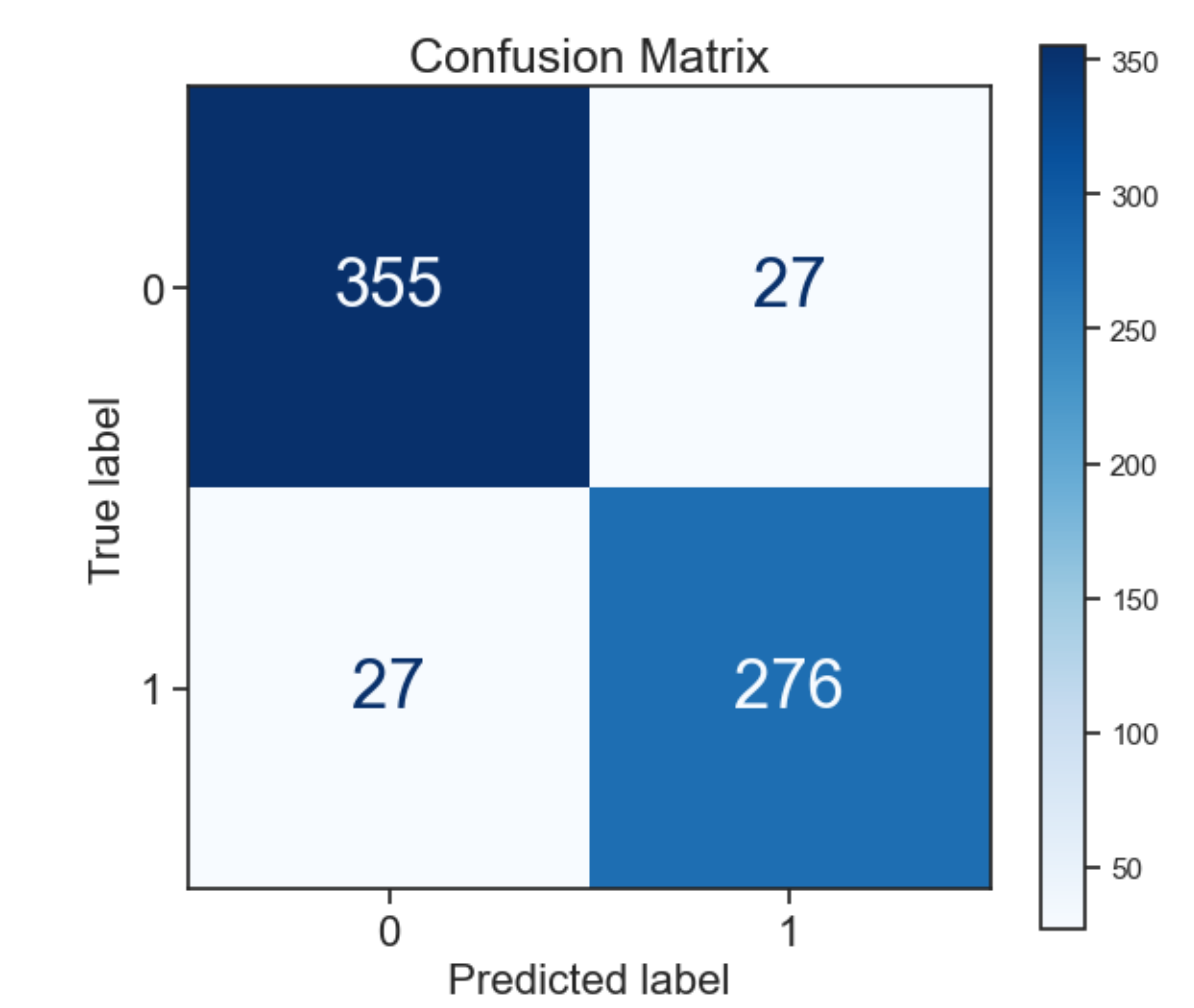
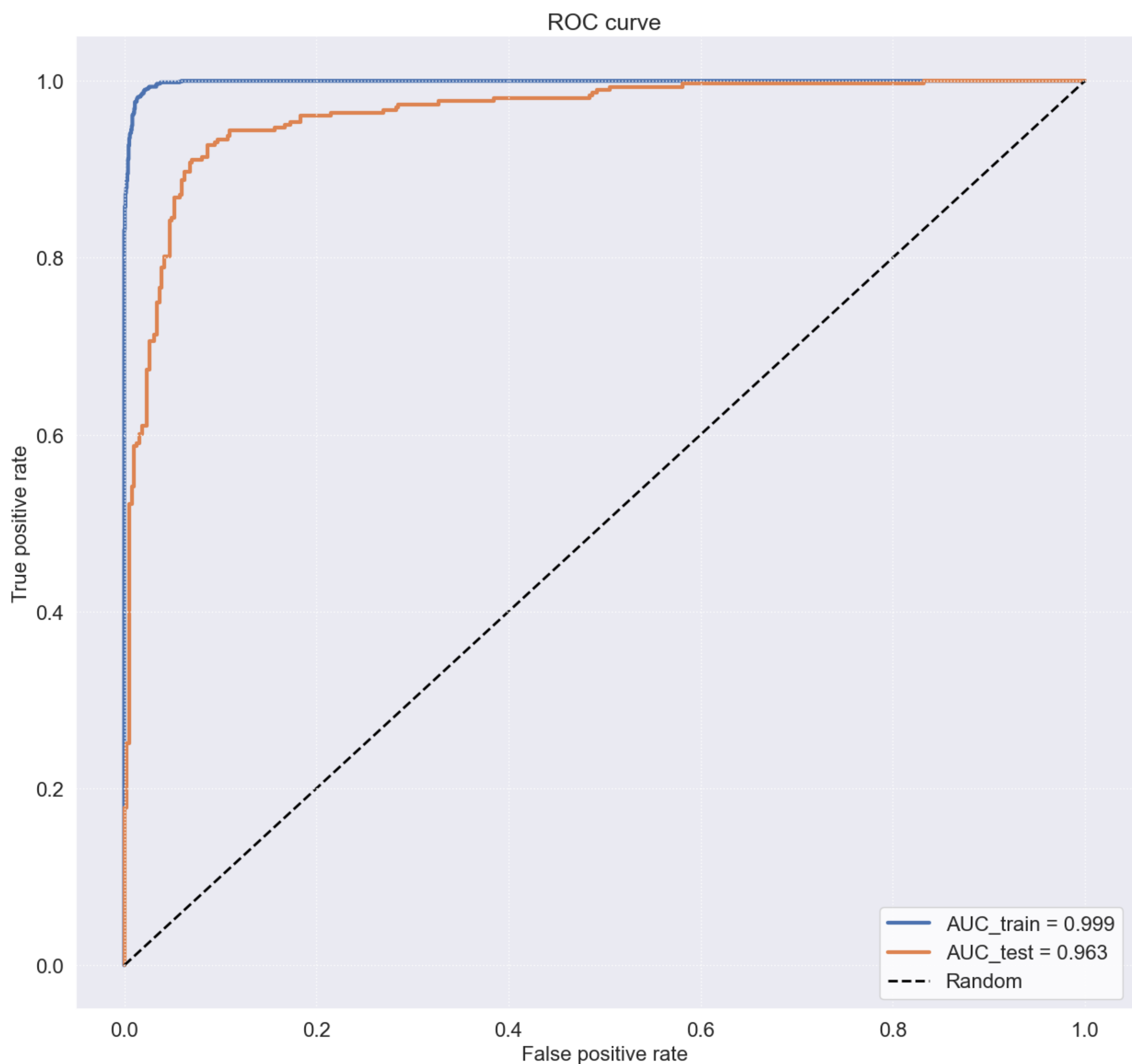
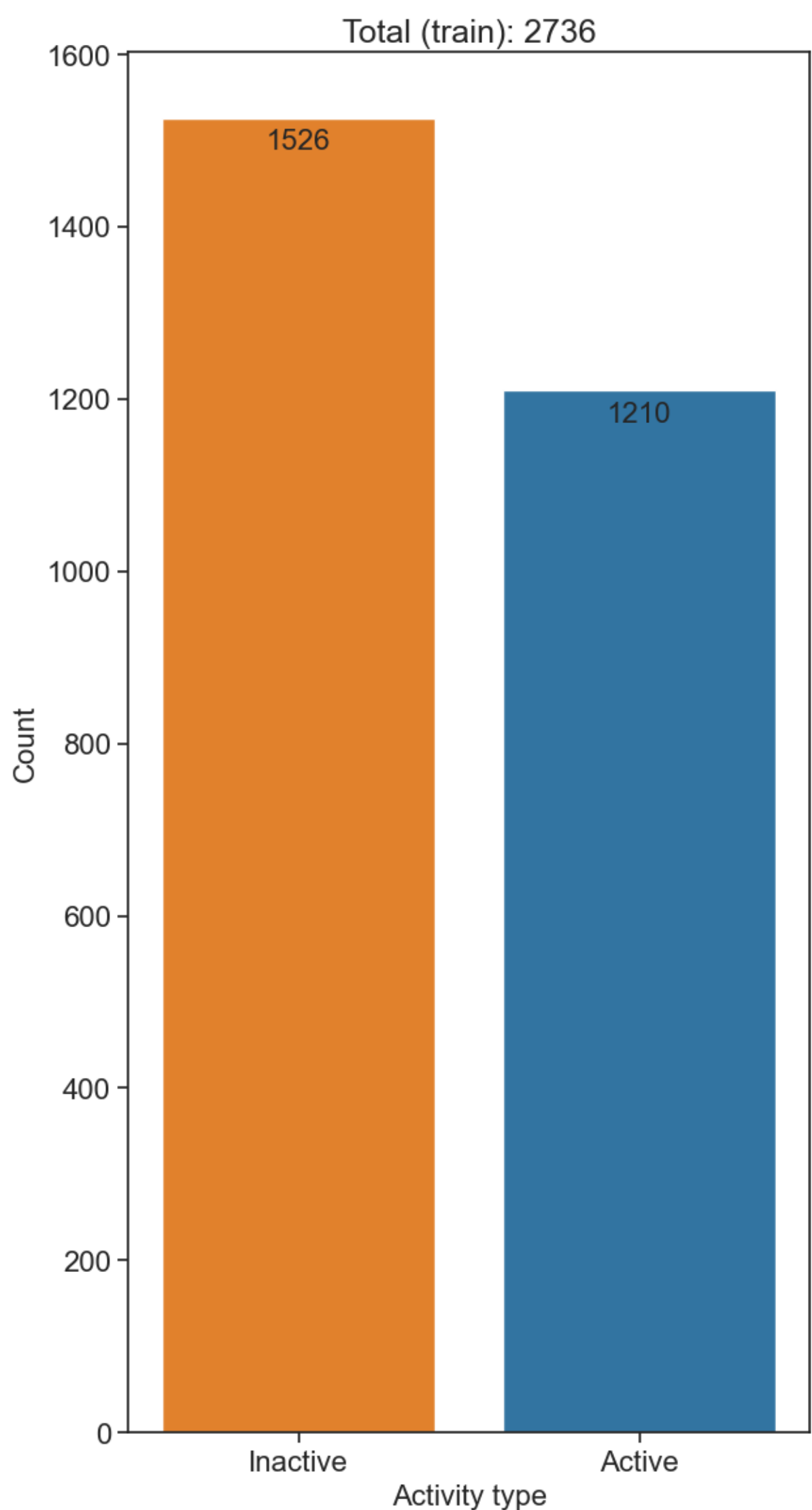


XGBoost Parameters	Value	
alpha	3.3505	
colsample_bytree	0.9544	
gamma	0.6268	
lambda	3.5554	
learning_rate	0.1184	
max_depth	6.0	
min_child_weight	2.0	
n_estimators	511.0	
reg_alpha	0.4403	
reg_lambda	0.861	
scale_pos_weight	1.1875	
subsample	0.8002	



Metric	Train	Test
AUC	0.9971	0.9576
accuracy	0.977	0.9095
balanced accuracy	0.977	0.9072
recall_(sens)	0.9777	0.8878
specificity	0.9764	0.9267
precision	0.9705	0.9057
f1_score	0.977	0.9094

Protein: P08908 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9988	0.9626
accuracy	0.9825	0.9212
balanced accuracy	0.9834	0.9201
recall_(sens)	0.9917	0.9109
specificity	0.9751	0.9293
precision	0.9693	0.9109
f1_score	0.9825	0.9212