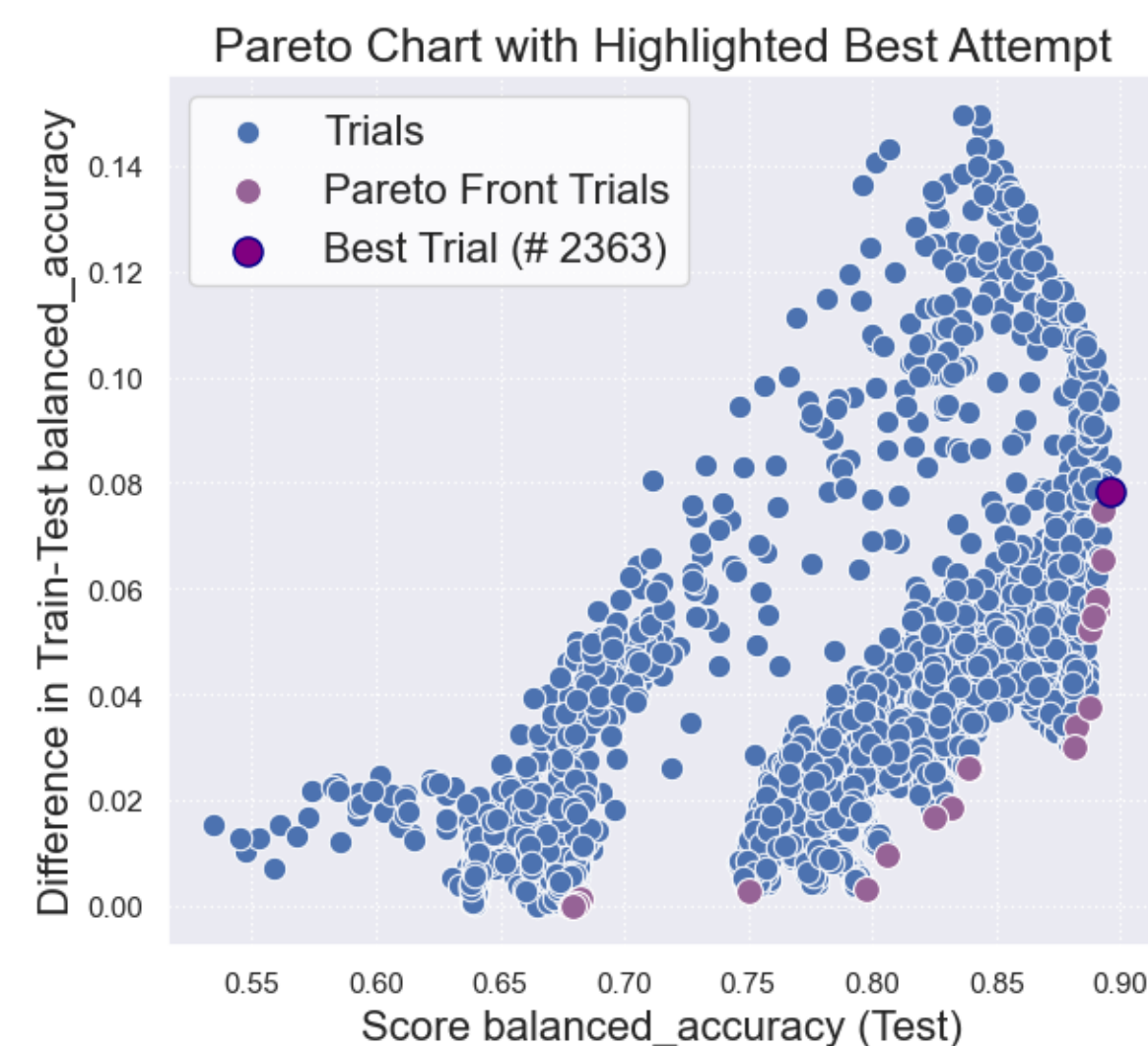
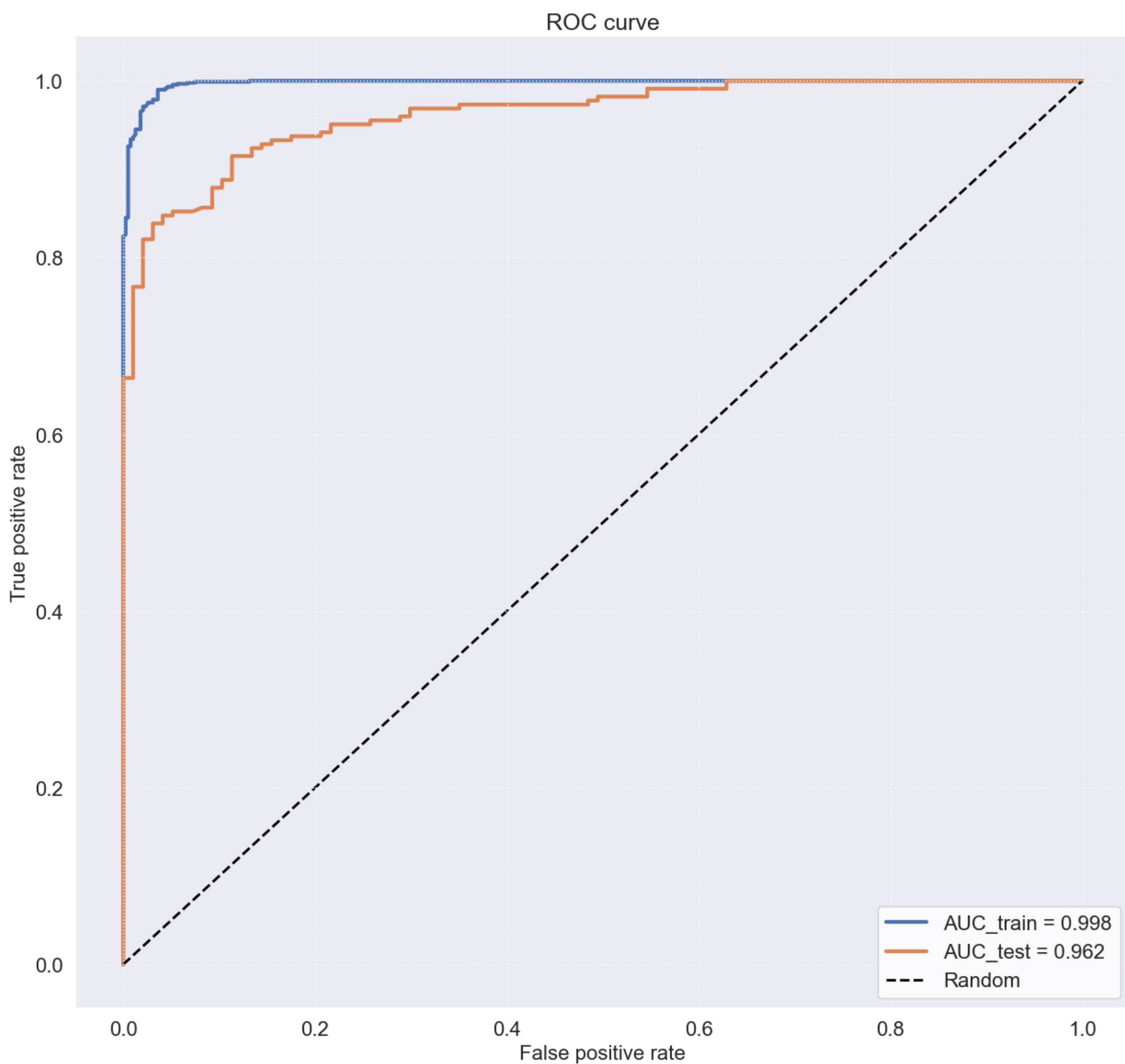
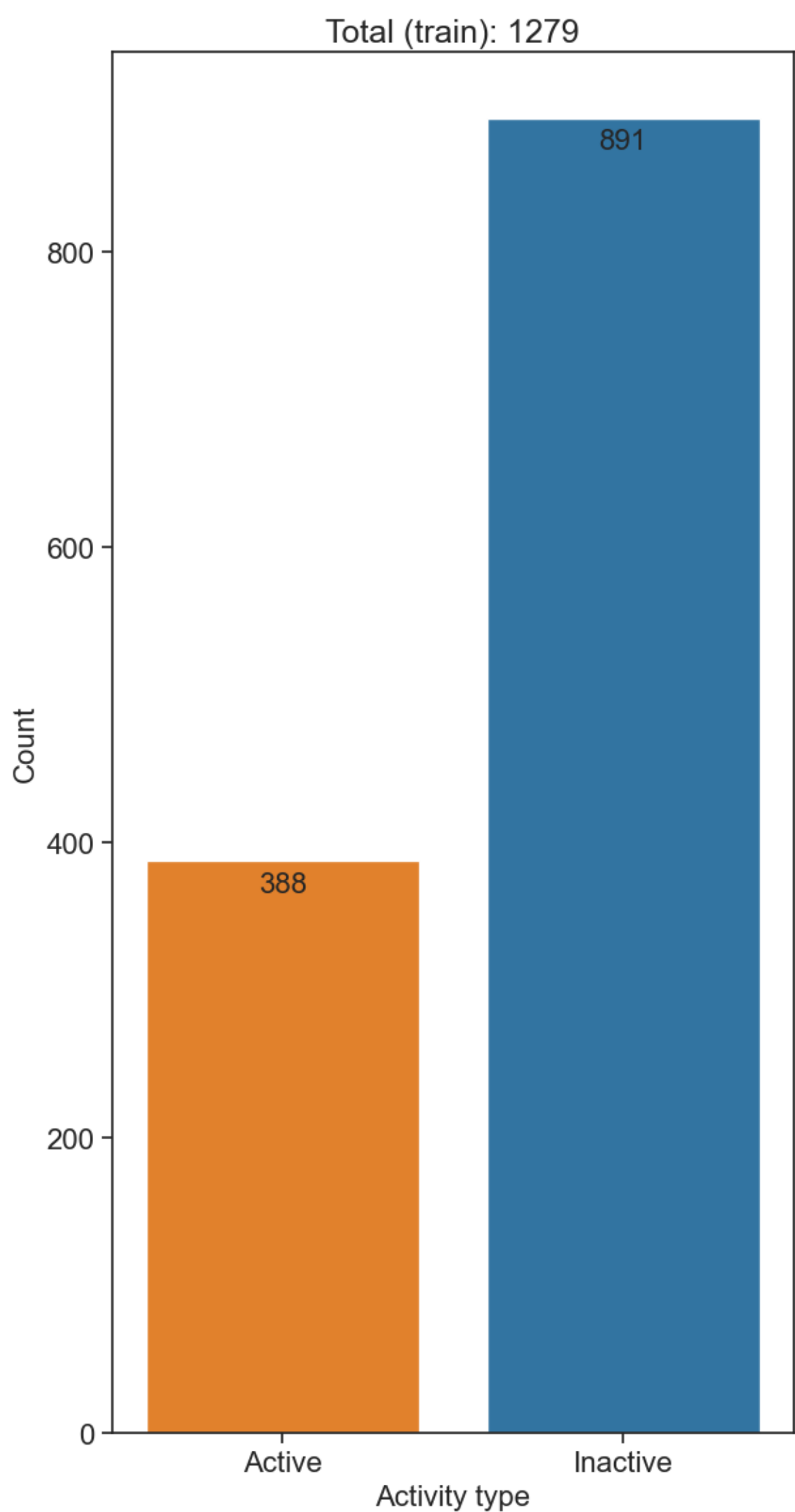
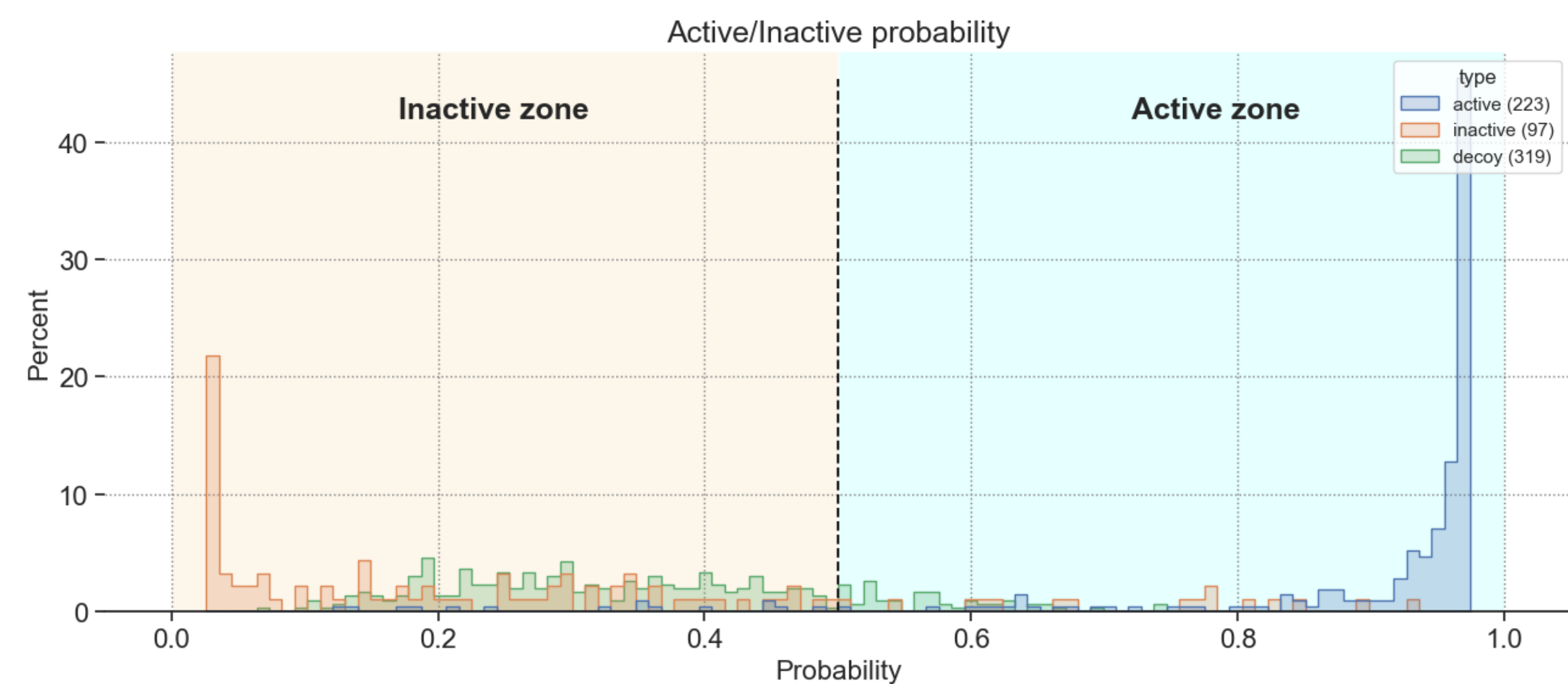
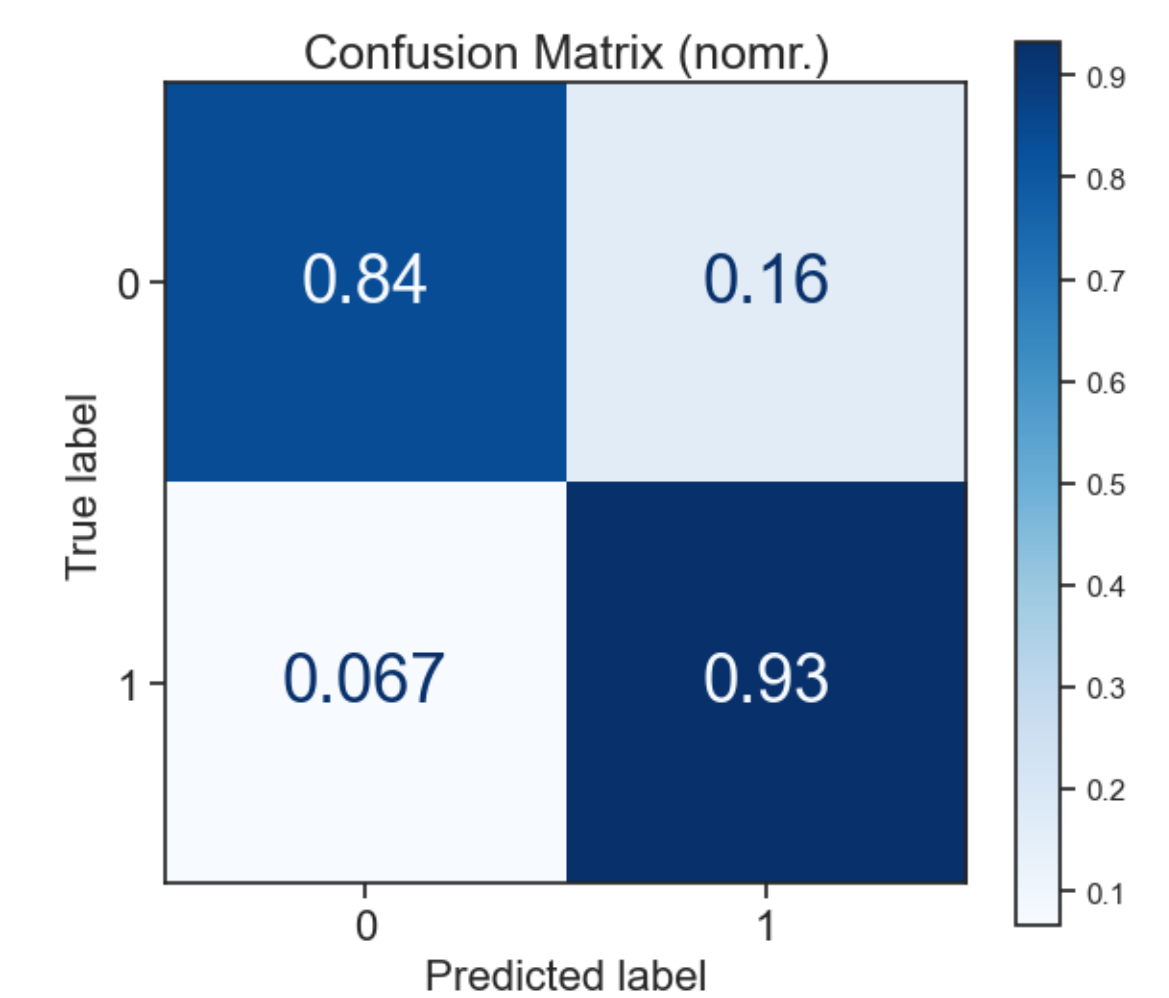
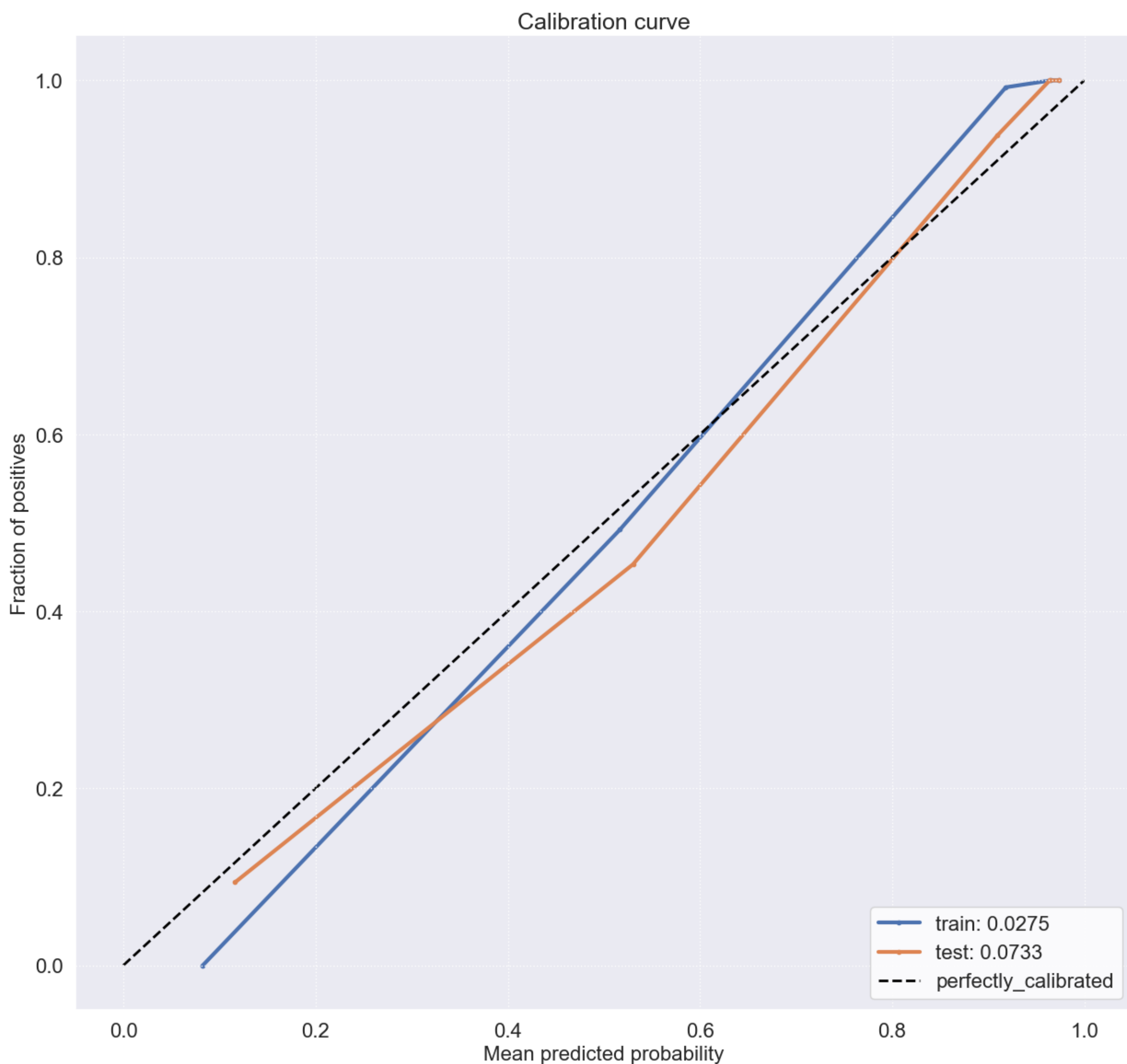
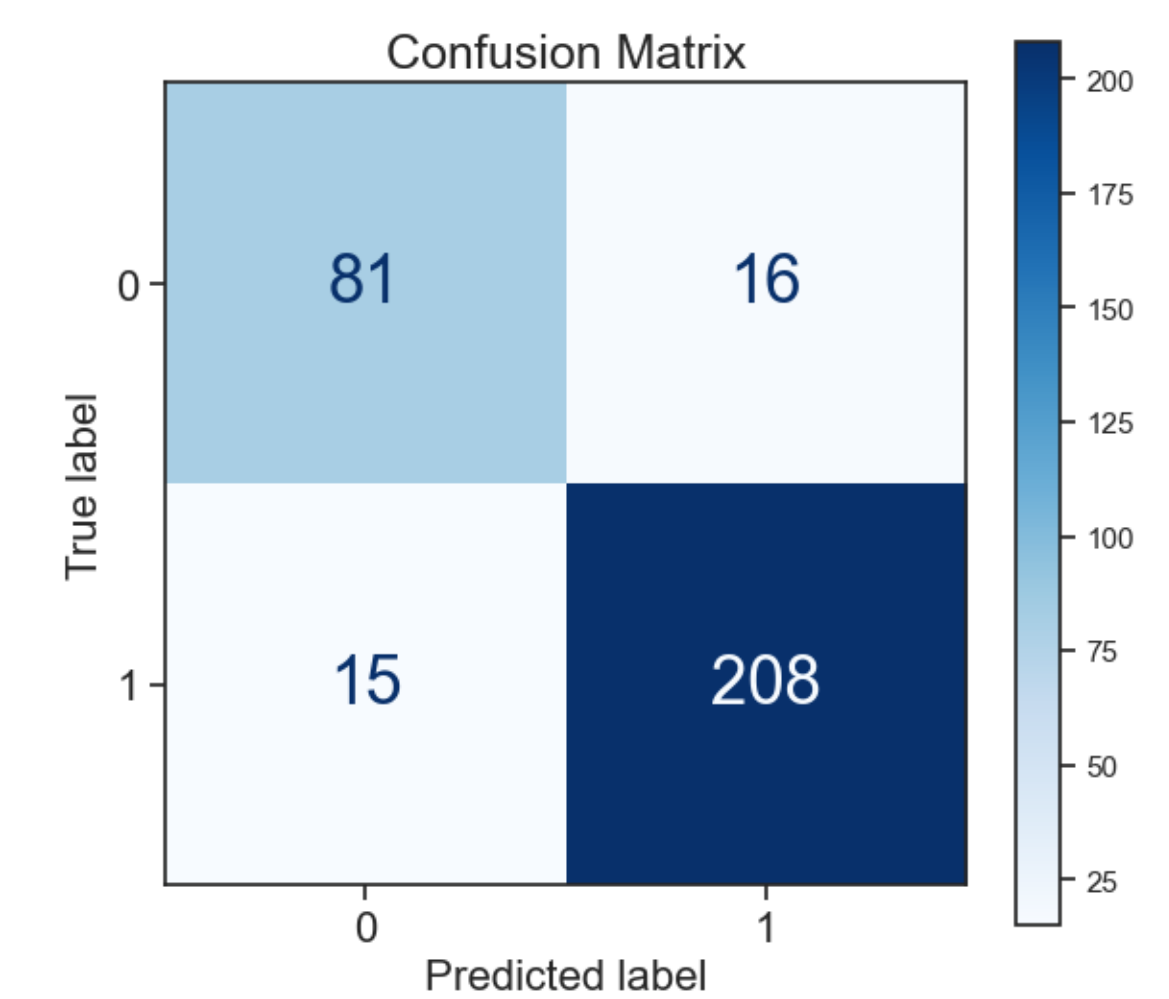


Protein: P07550 - metric: balanced\_accuracy



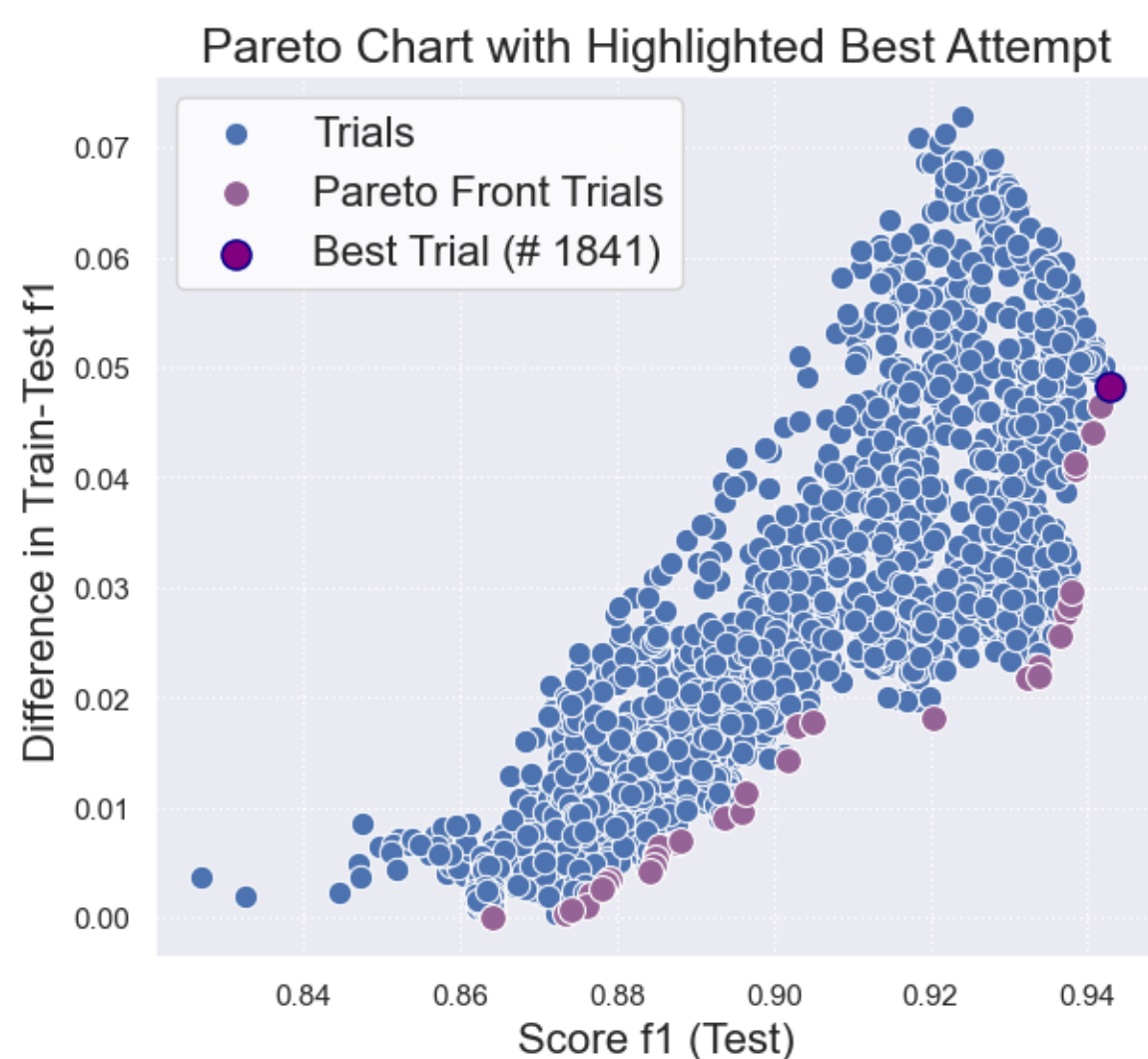
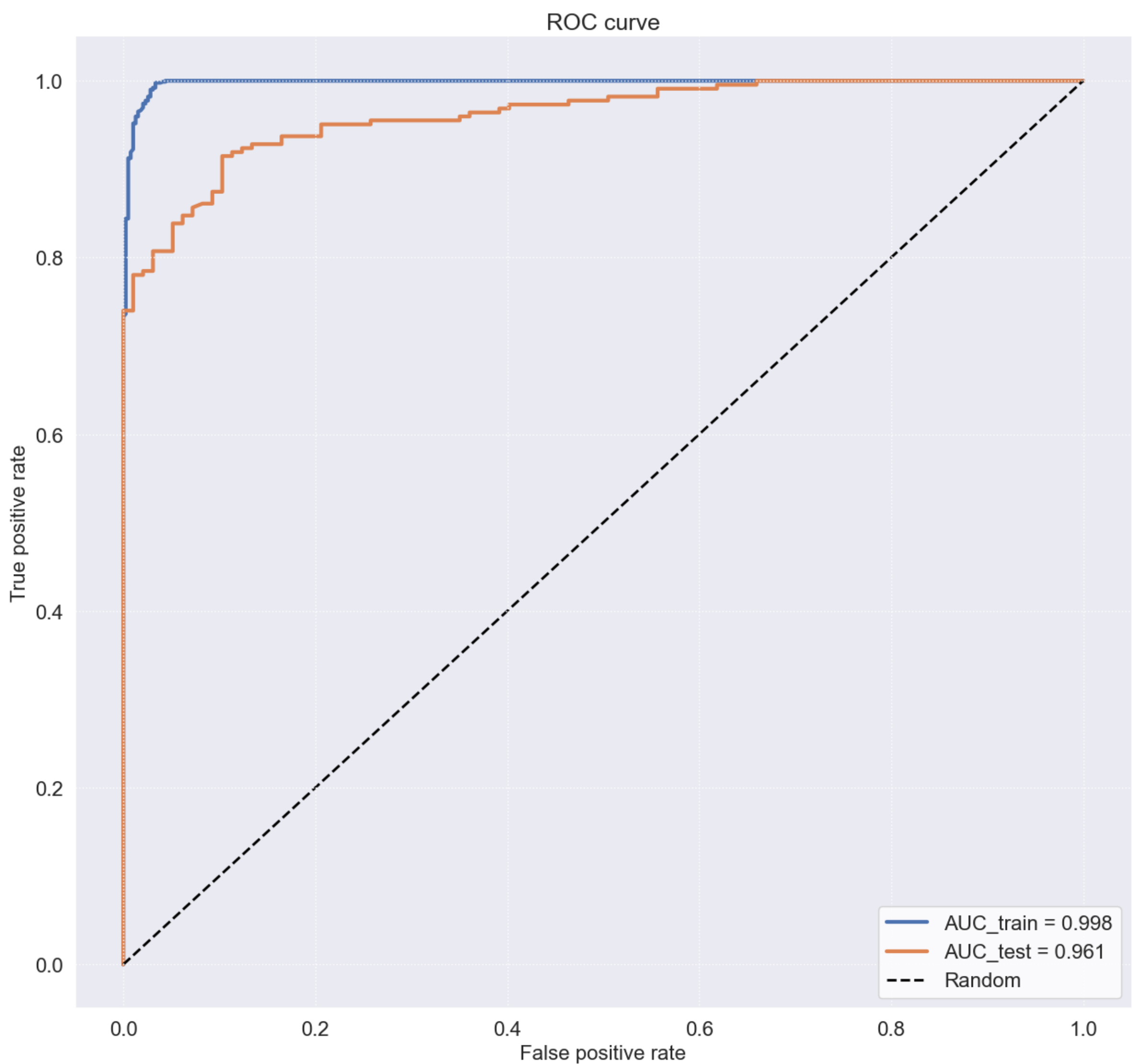
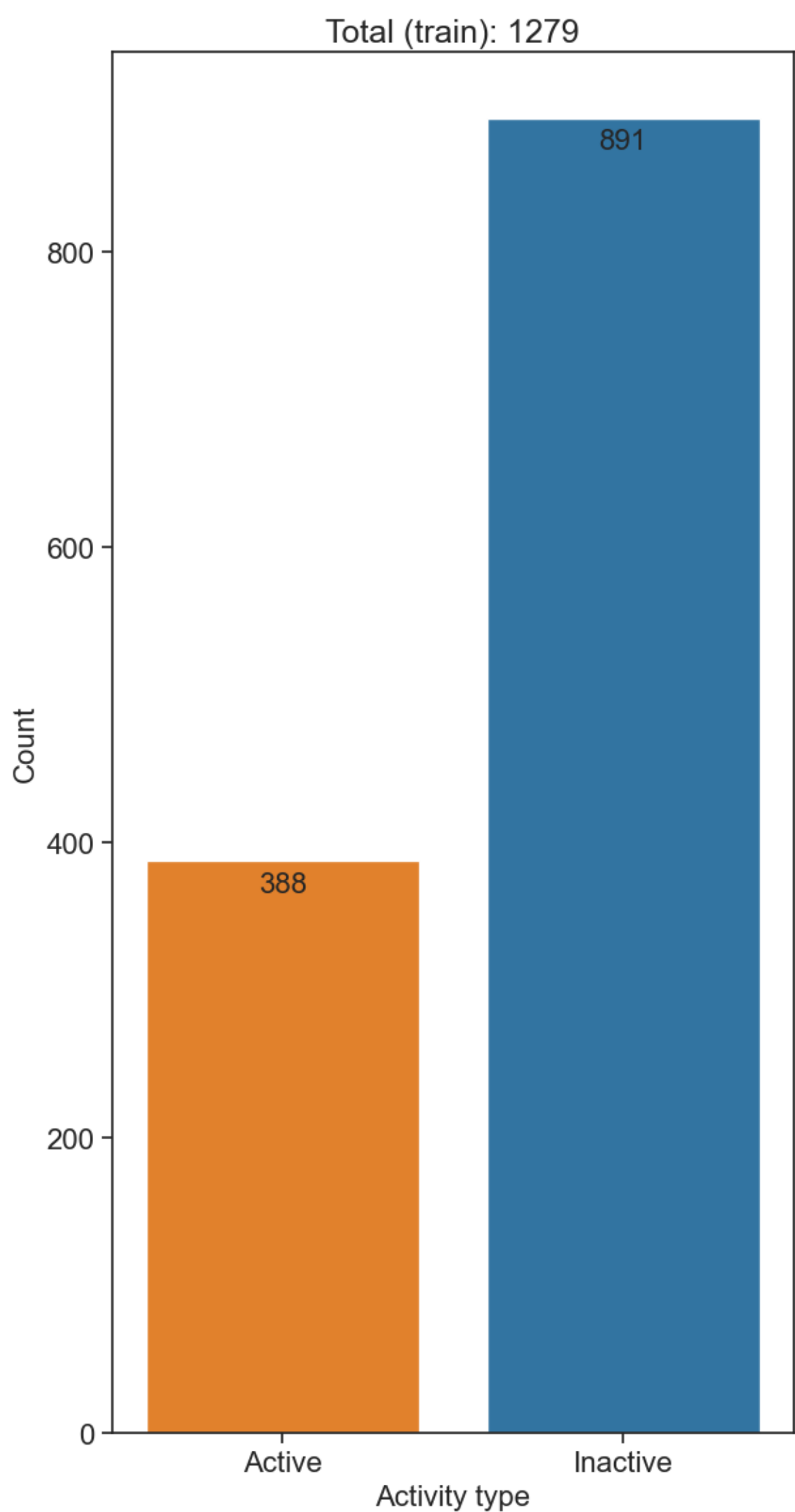
XGBoost Parameters	Value
alpha	3.2357
colsample_bytree	0.6117
gamma	0.2456
lambda	1.4022
learning_rate	0.0078
max_depth	10.0
min_child_weight	1.0
n_estimators	377.0
reg_alpha	0.0429
reg_lambda	0.0327
scale_pos_weight	1.1287
subsample	0.9513



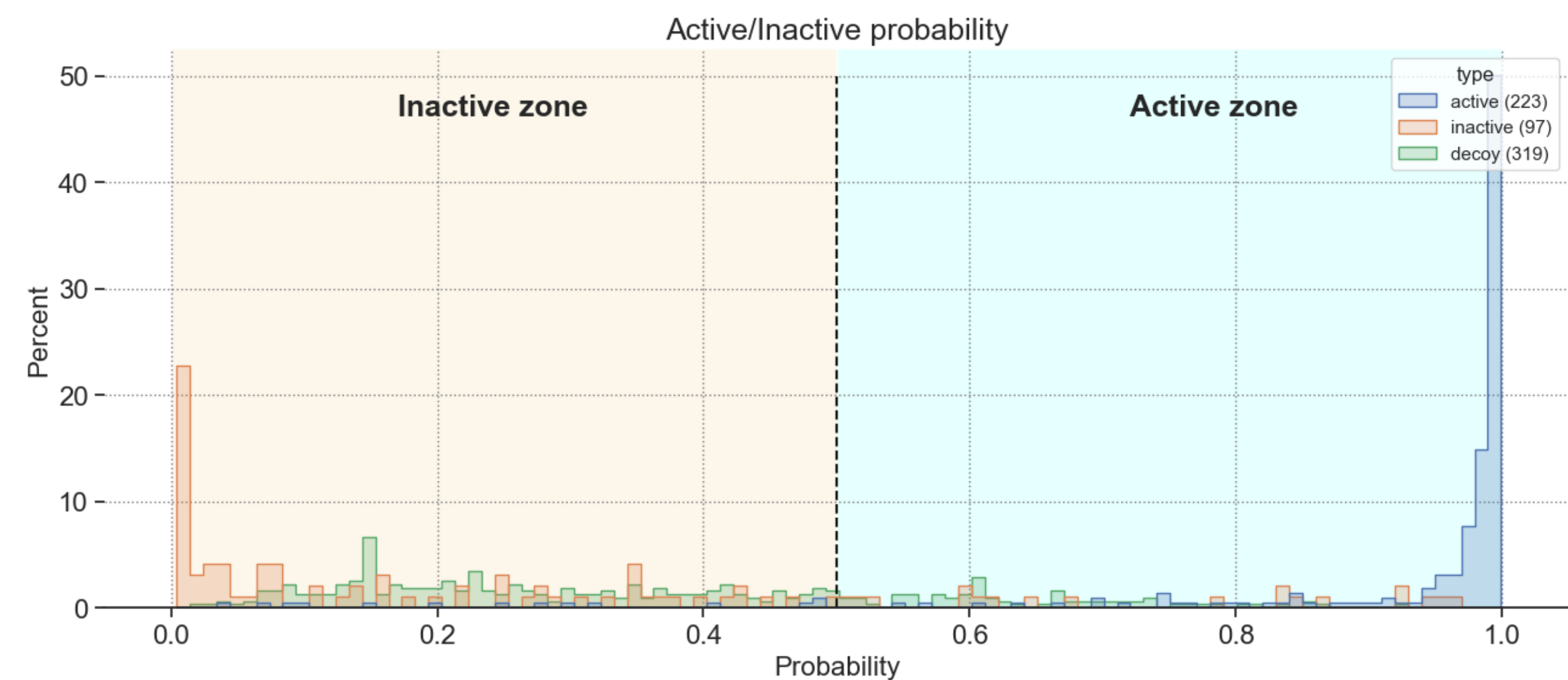
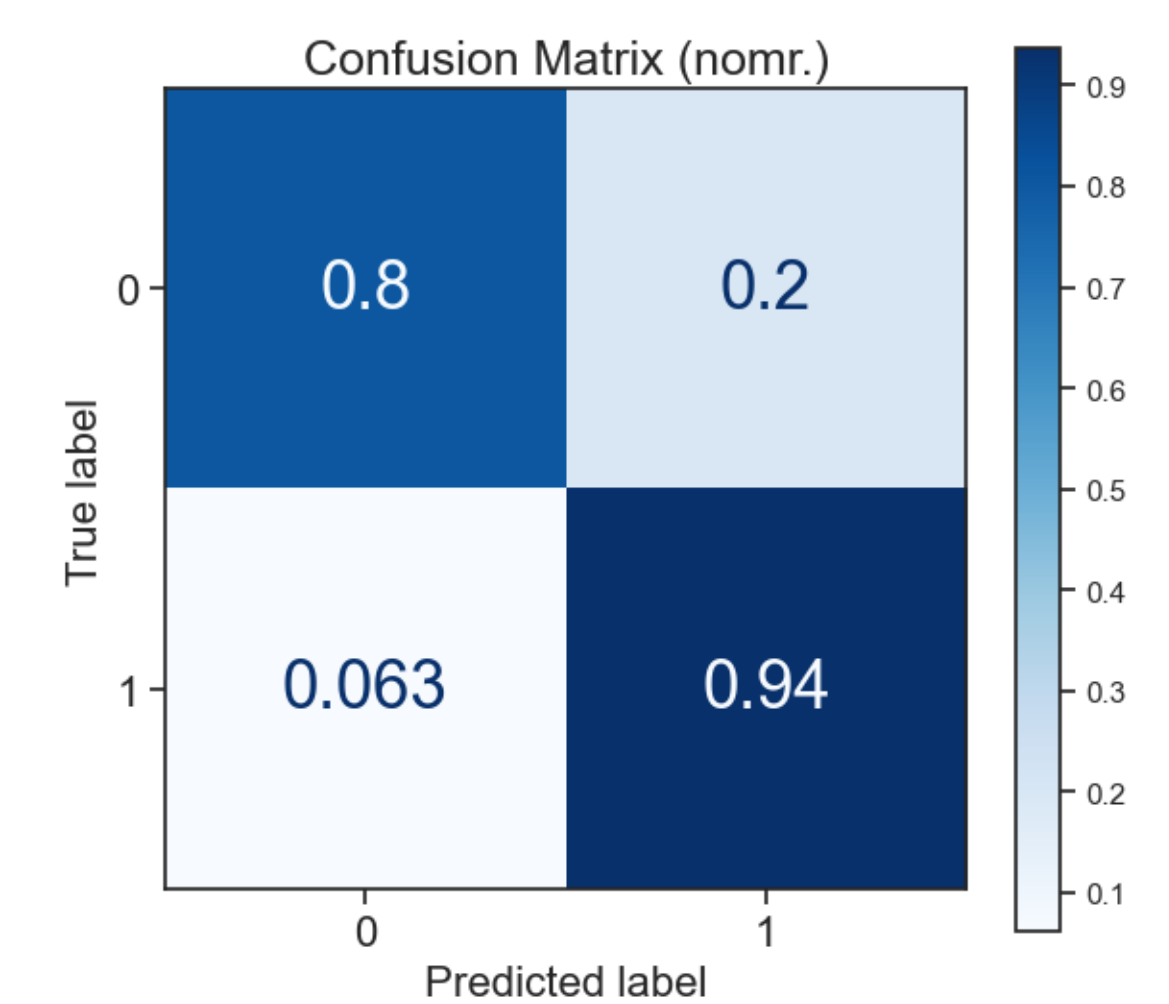
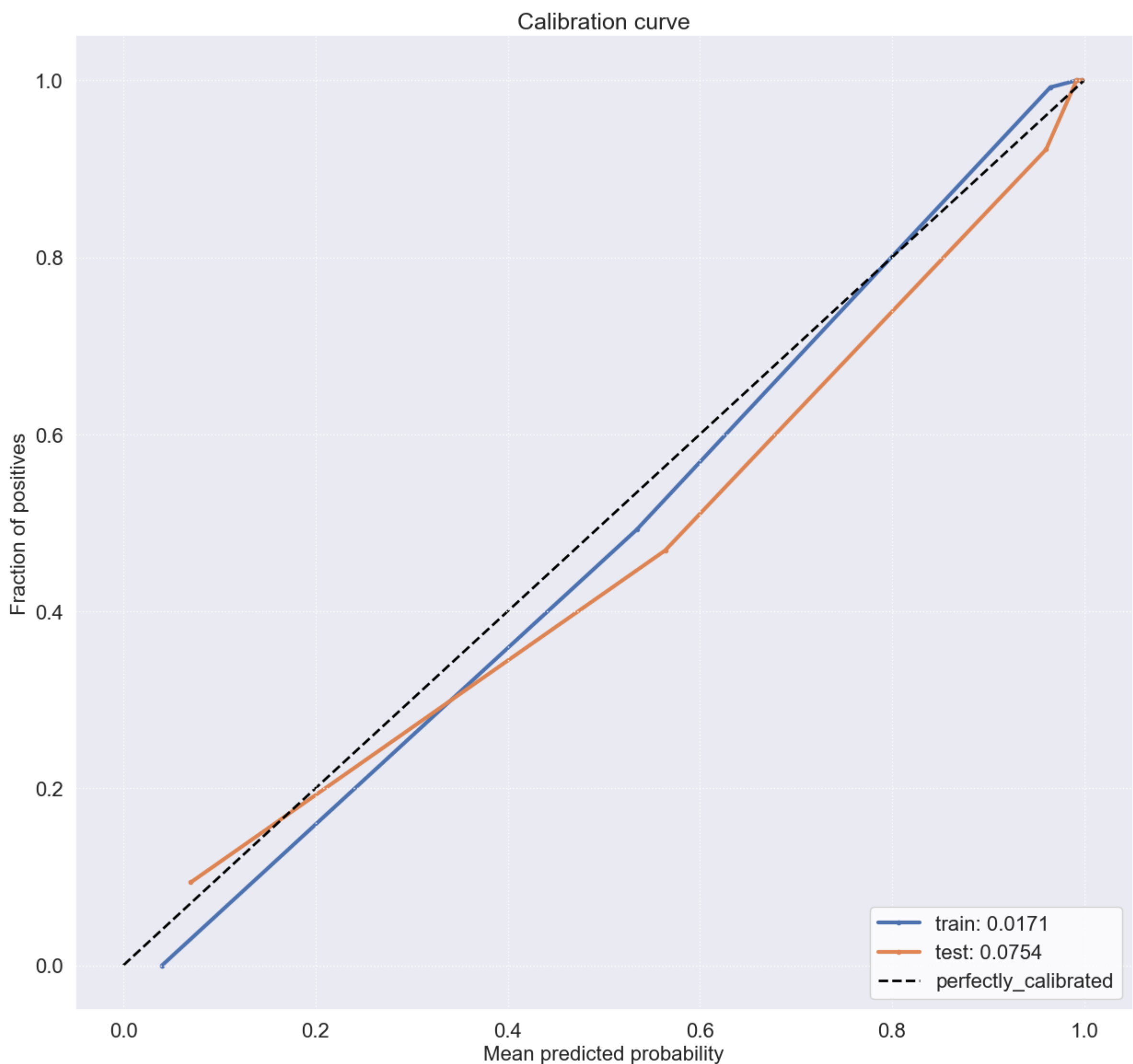
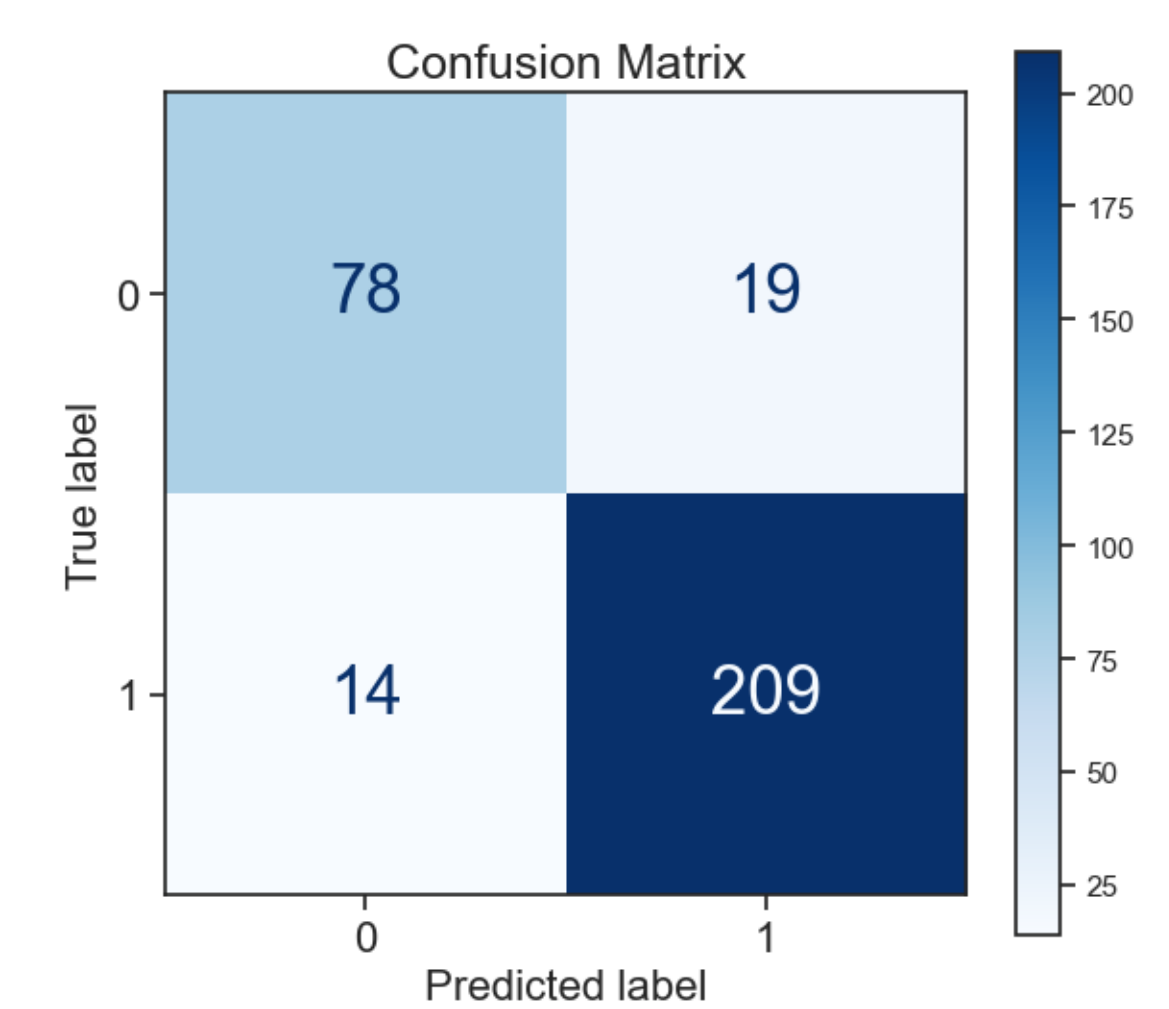
Metric	Train	Test
AUC	0.9976	0.9624
accuracy	0.9805	0.9031
balanced accuracy	0.9707	0.8839
recall_(sens)	0.9955	0.9327
specificity	0.9459	0.8351
precision	0.9769	0.9286
f1_score	0.9803	0.903



Protein: P07550 - metric: f1



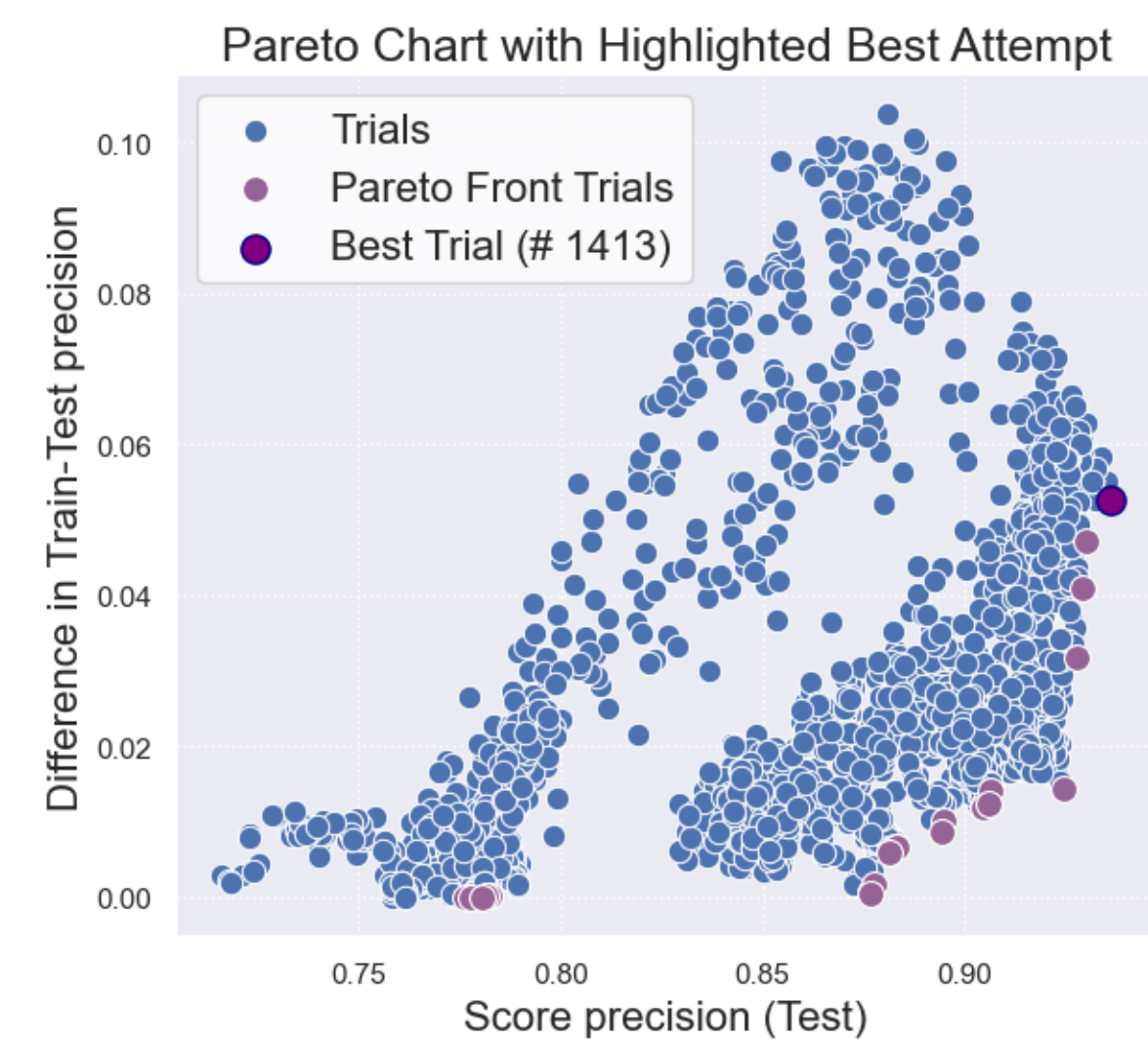
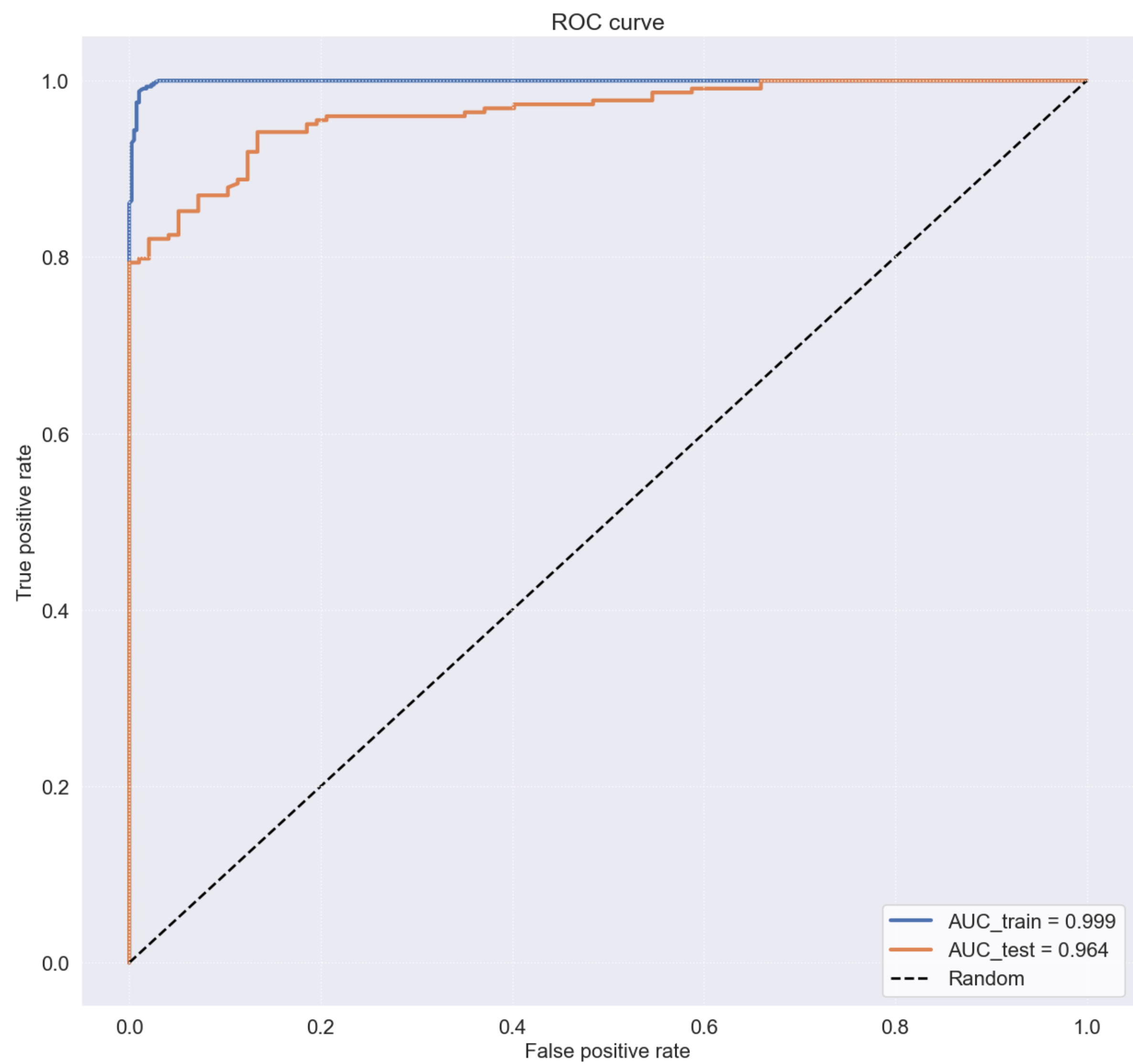
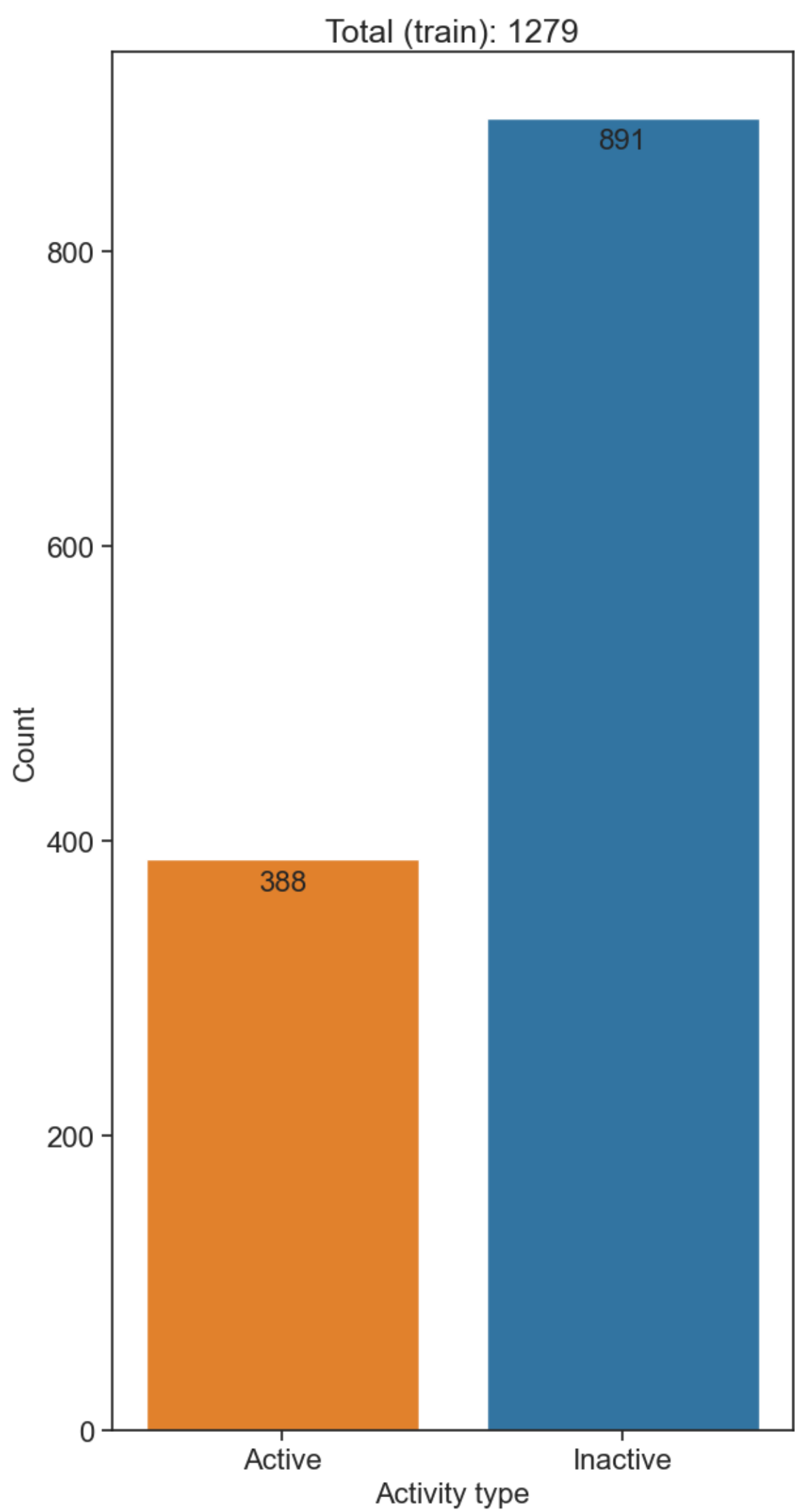
XGBoost Parameters	Value
alpha	1.6698
colsample_bytree	0.7879
gamma	0.8943
lambda	2.9037
learning_rate	0.0313
max_depth	10.0
min_child_weight	1.0
n_estimators	479.0
reg_alpha	0.0196
reg_lambda	0.1294
scale_pos_weight	1.3308
subsample	0.9342



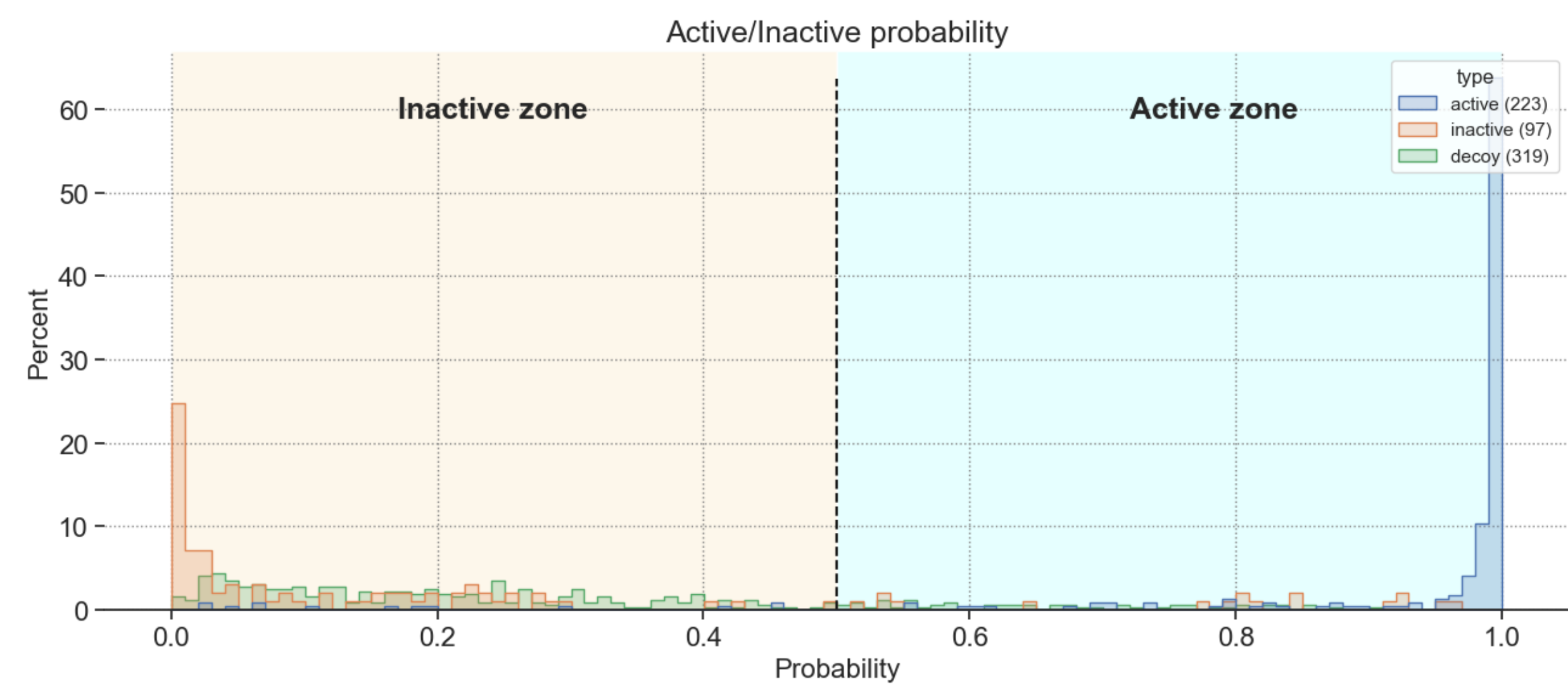
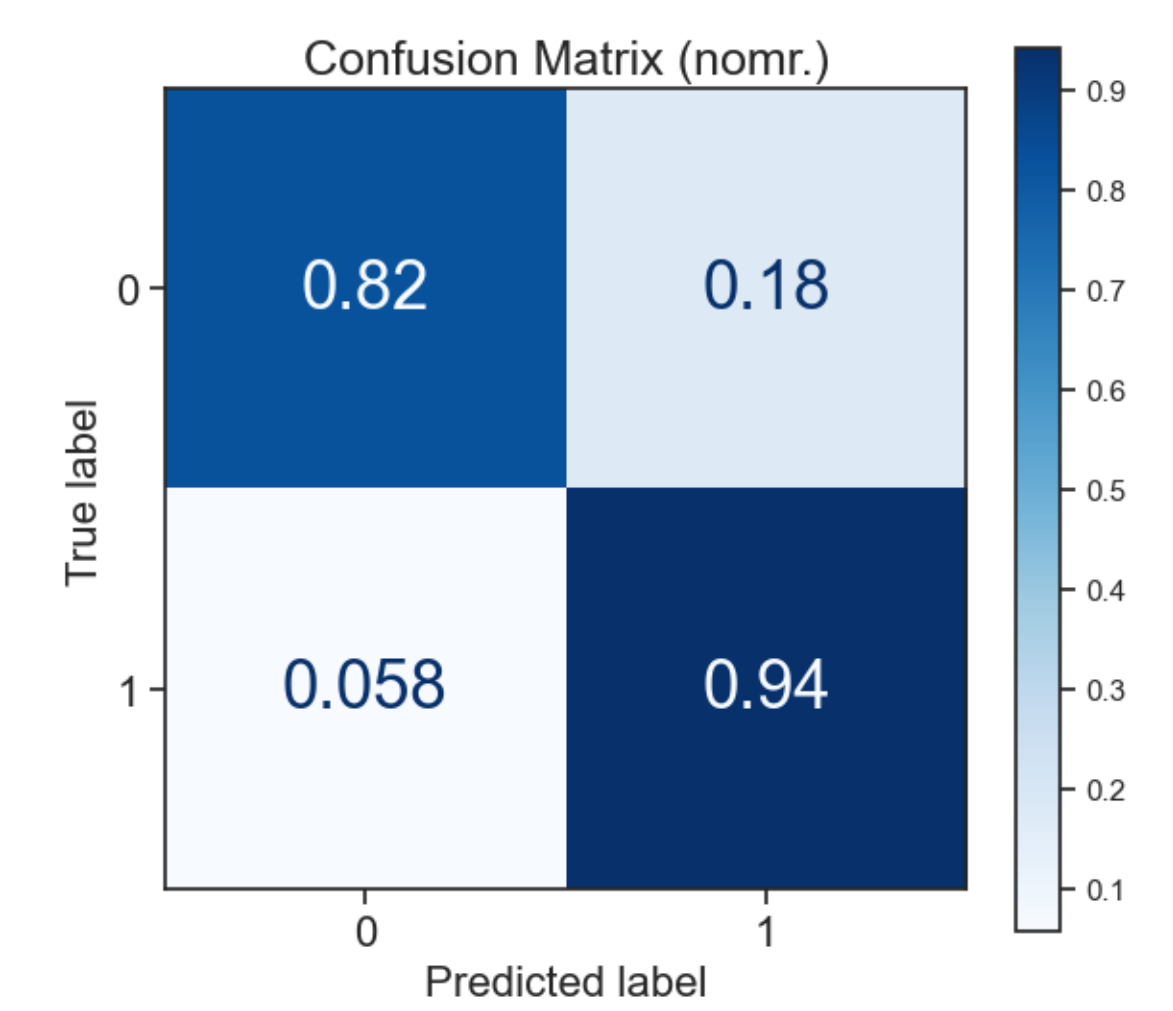
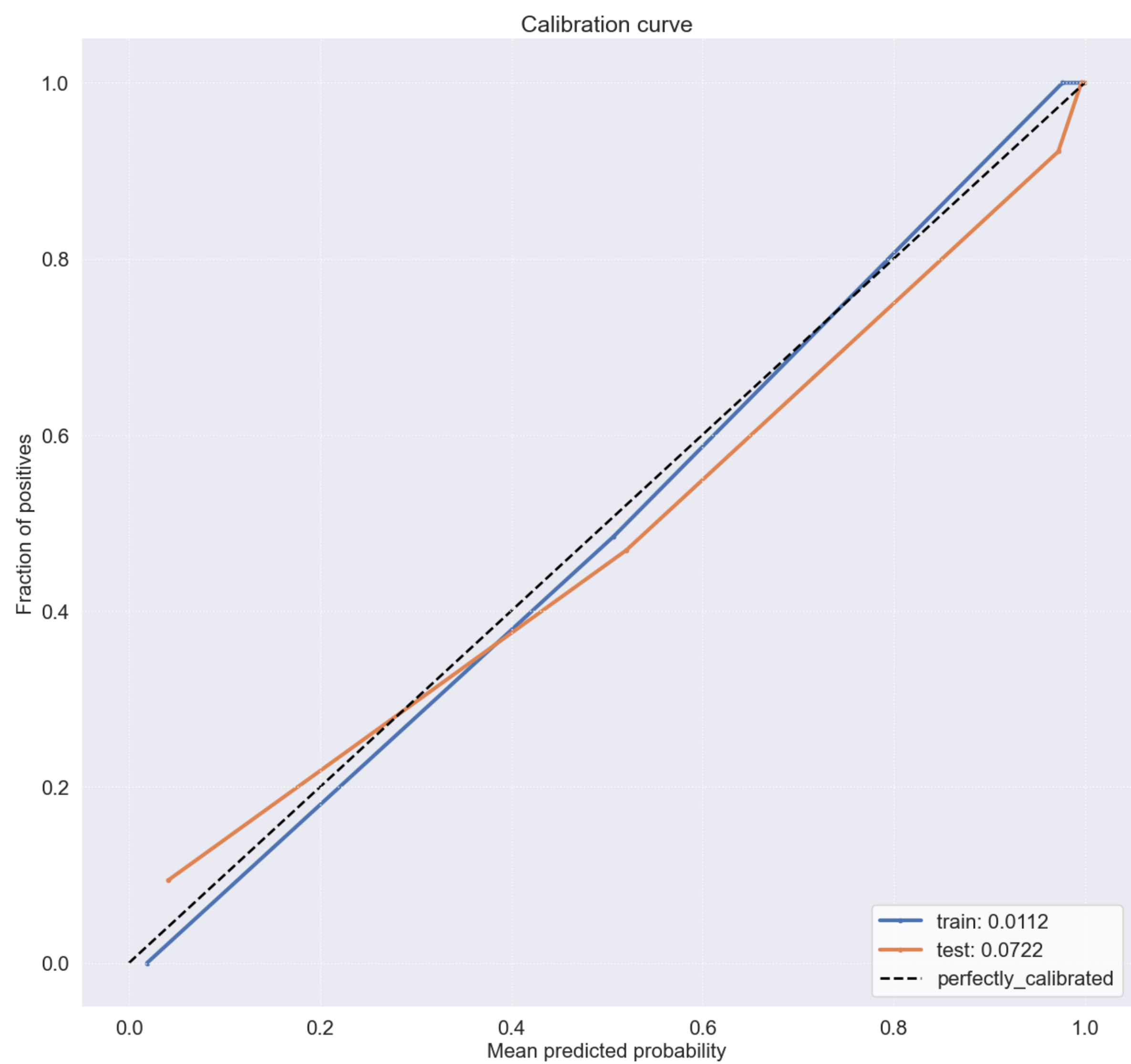
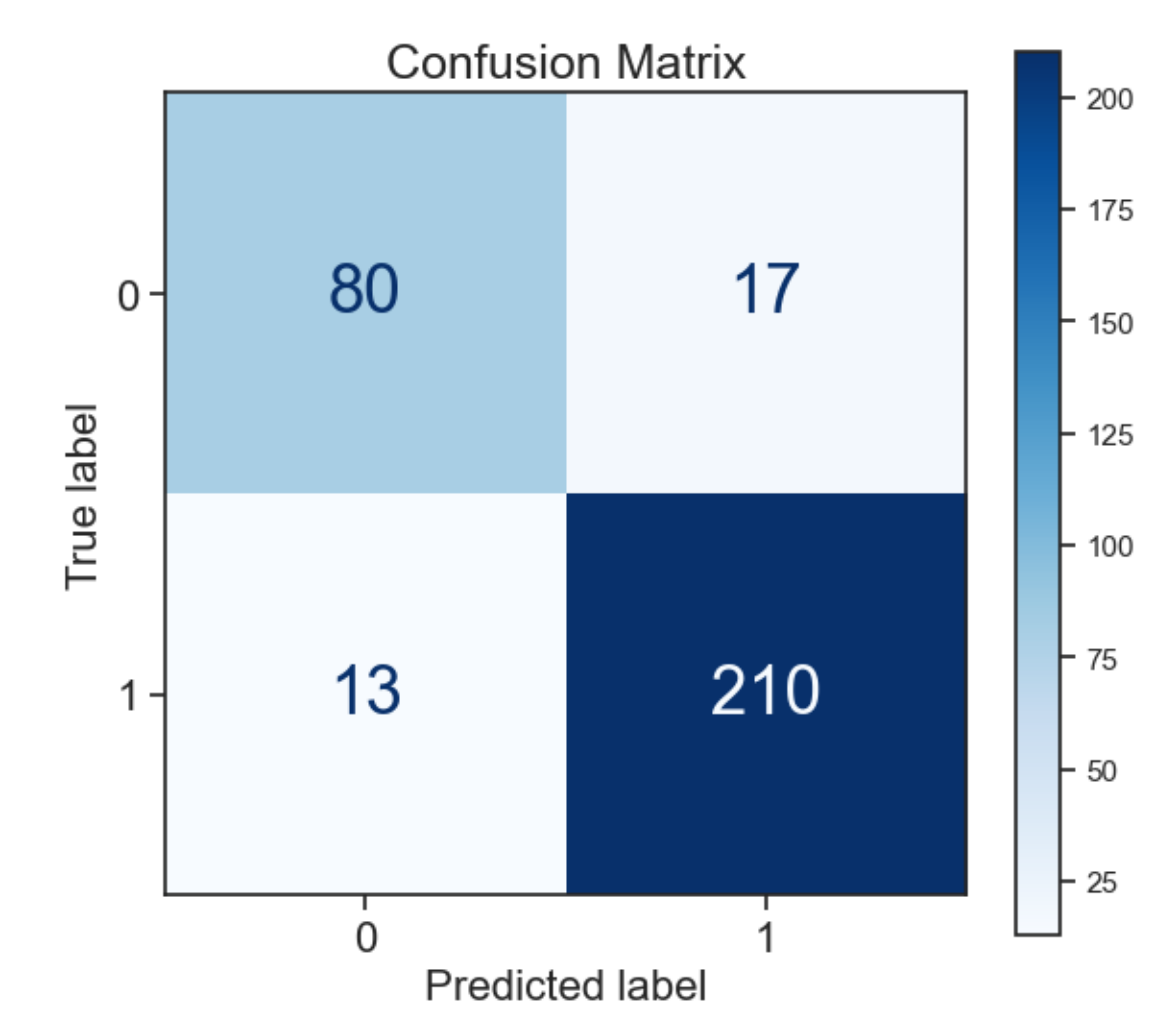
Metric	Train	Test
AUC	0.9978	0.9613
accuracy	0.9875	0.8969
balanced accuracy	0.9808	0.8707
recall_(sens)	0.9978	0.9372
specificity	0.9639	0.8041
precision	0.9845	0.9167
f1_score	0.9874	0.8961



Protein: P07550 - metric: precision



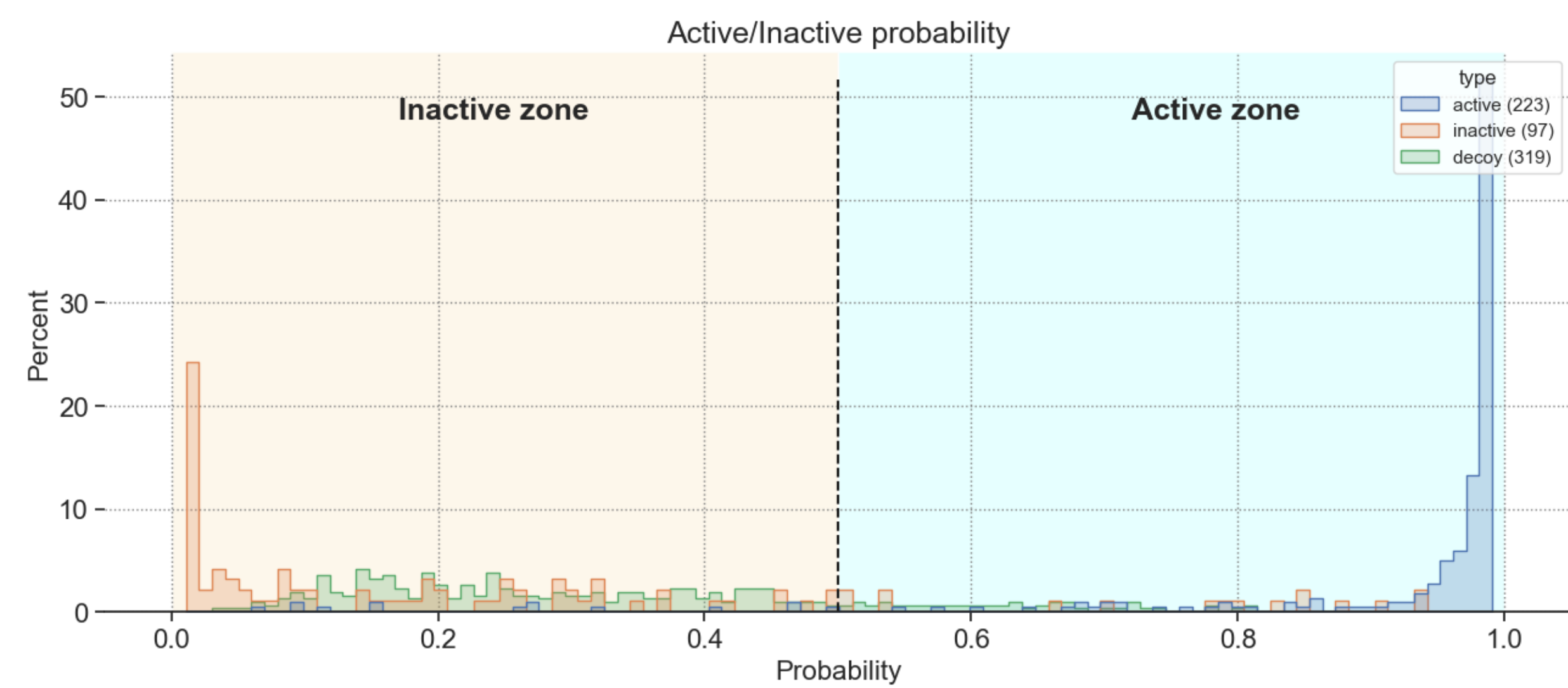
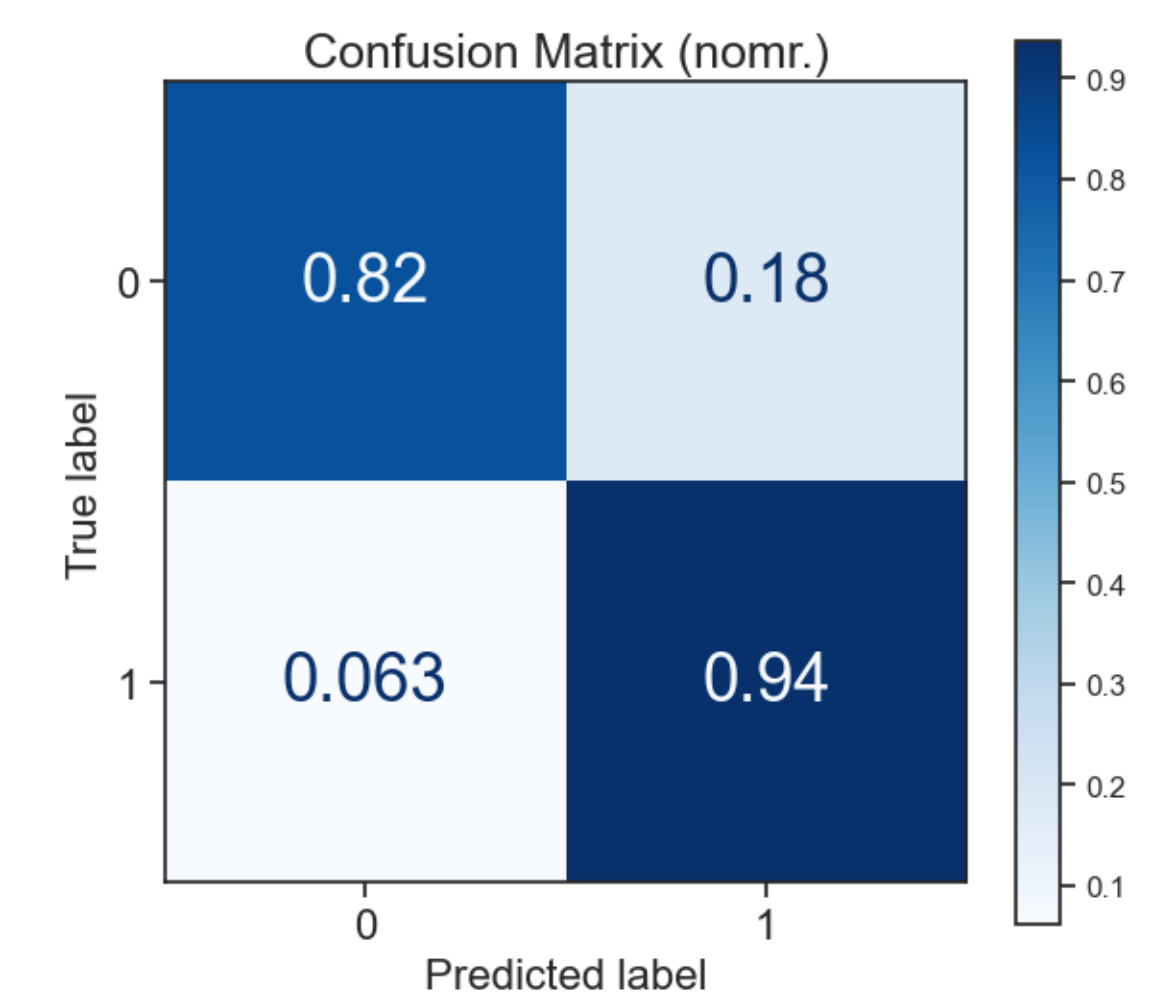
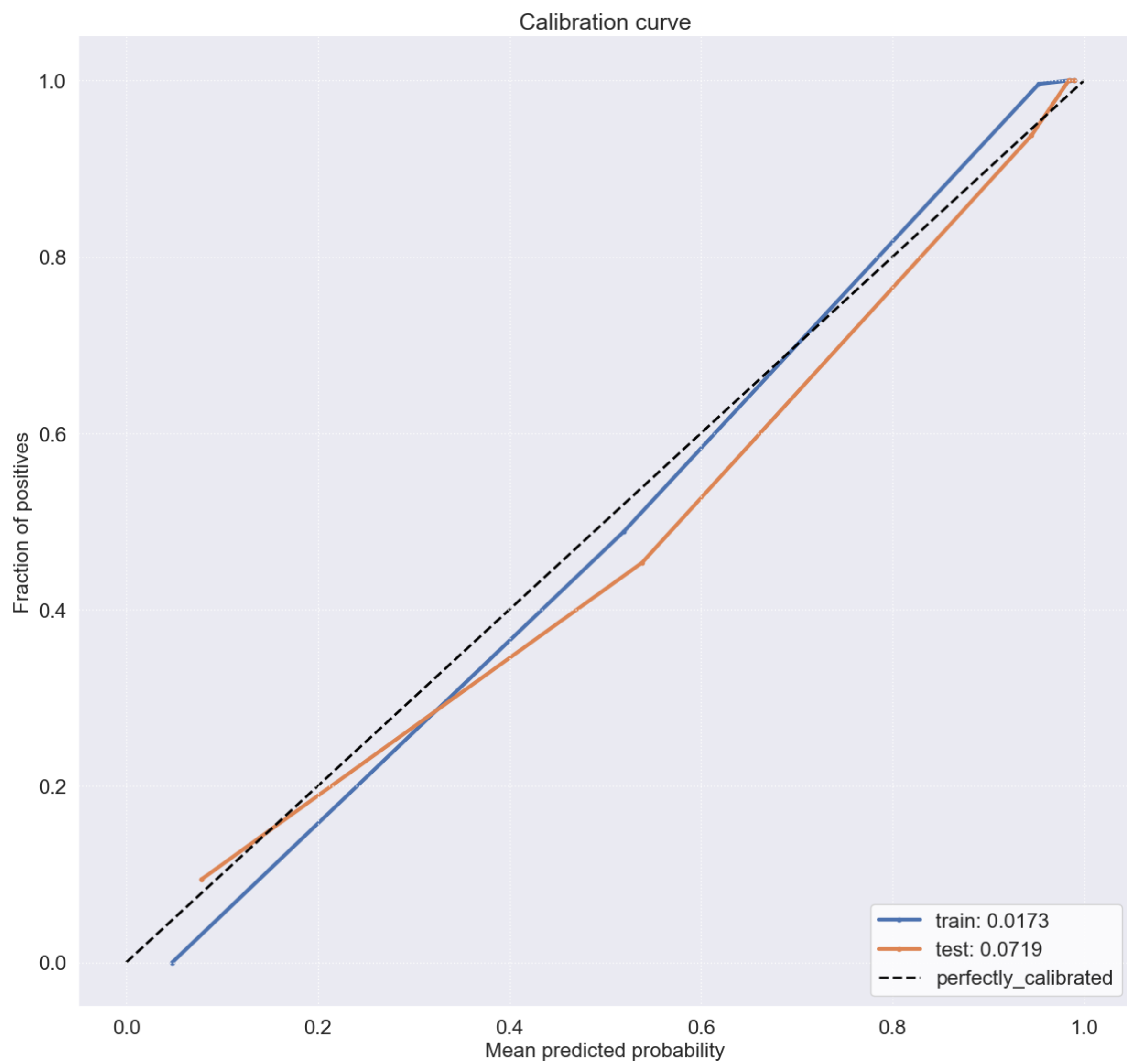
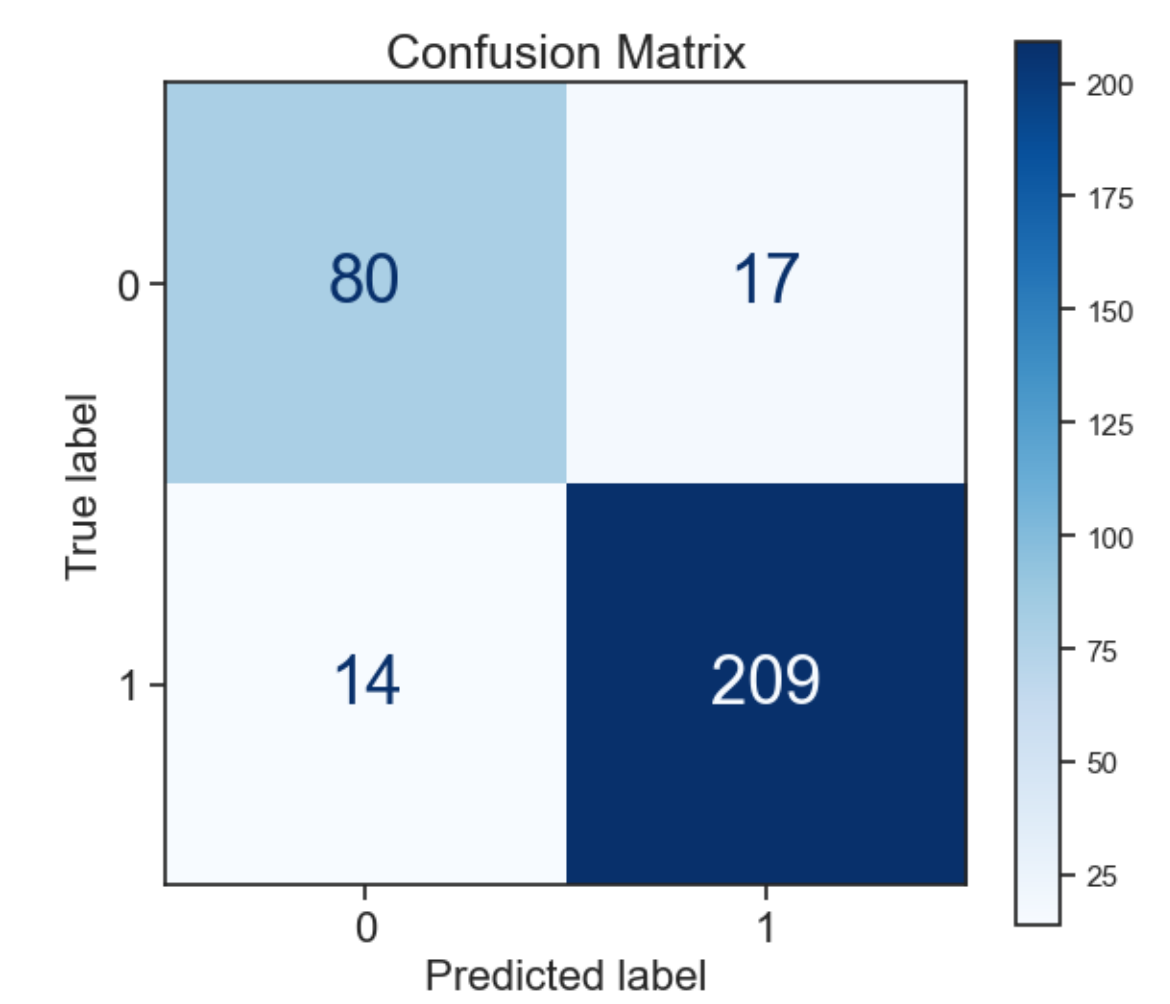
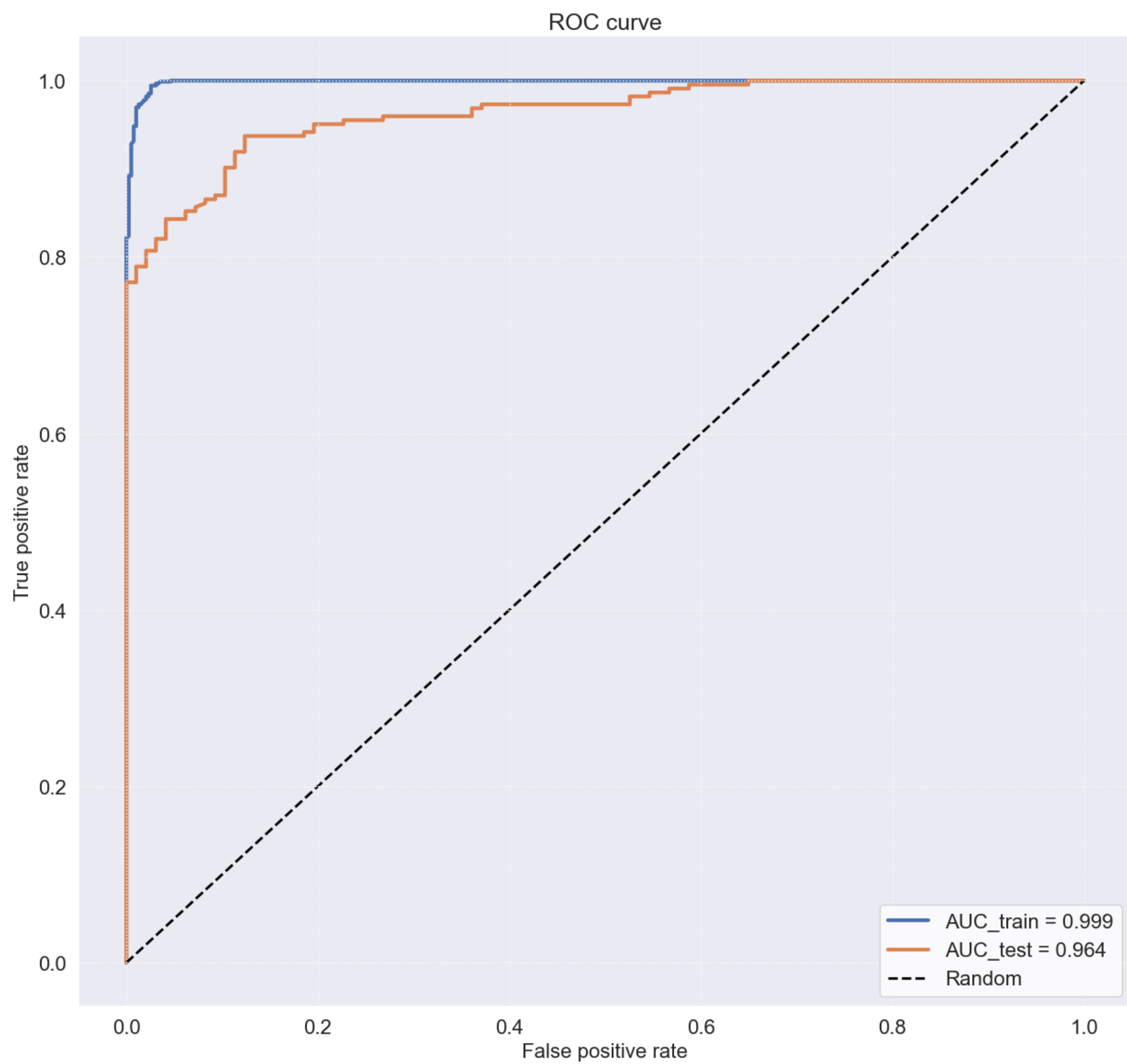
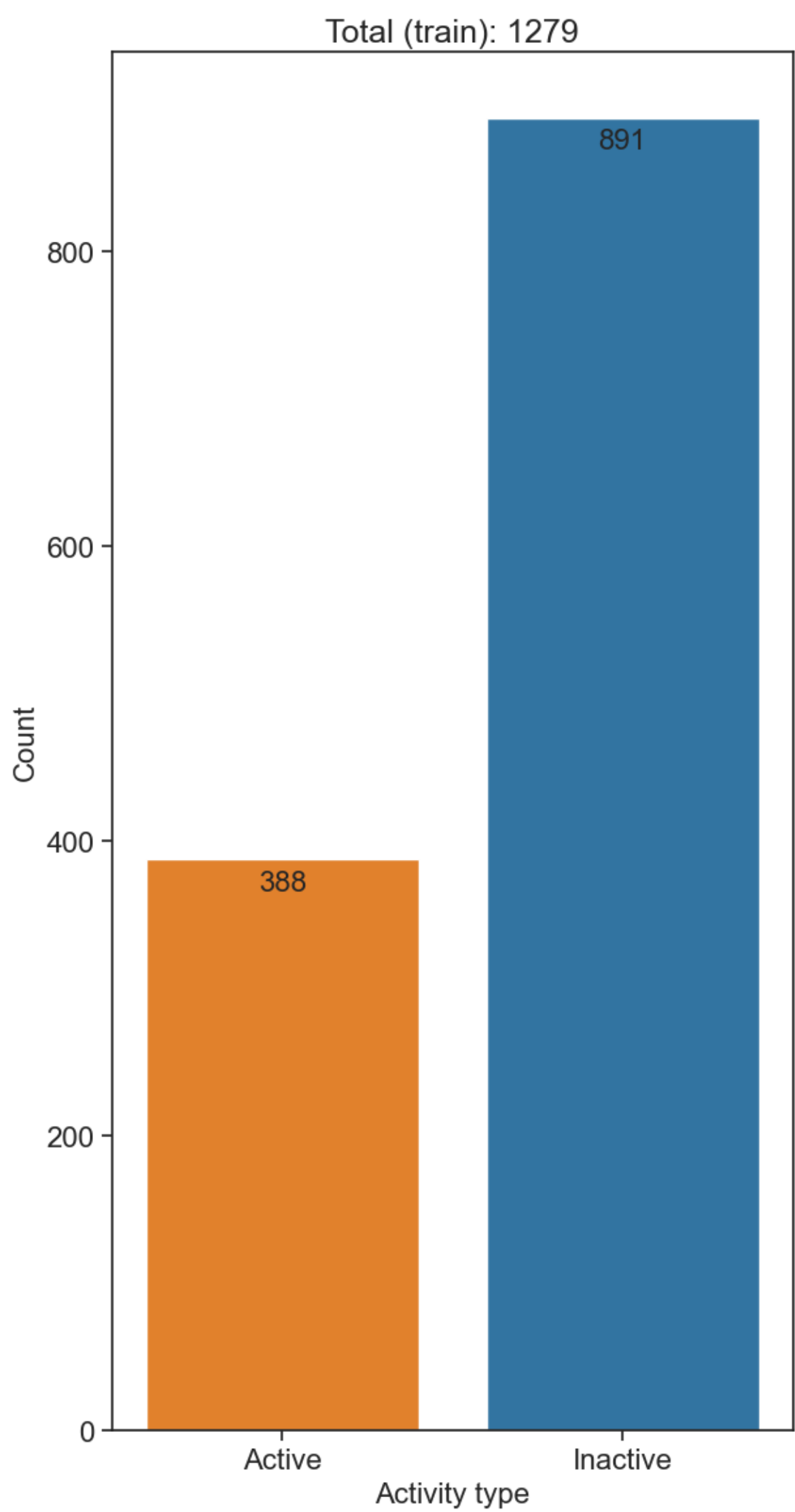
XGBoost Parameters	Value
alpha	0.4467
colsample_bytree	0.6565
gamma	0.4405
lambda	1.823
learning_rate	0.0616
max_depth	8.0
min_child_weight	1.0
n_estimators	624.0
reg_alpha	0.0689
reg_lambda	0.1964
scale_pos_weight	1.1275
subsample	0.9087



Metric	Train	Test
AUC	0.9991	0.9637
accuracy	0.9898	0.9062
balanced accuracy	0.9847	0.8832
recall_(sens)	0.9978	0.9417
specificity	0.9716	0.8247
precision	0.9878	0.9251
f1_score	0.9898	0.9057



Protein: P07550 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9985	0.9636
accuracy	0.9883	0.9031
balanced accuracy	0.9821	0.881
recall_(sens)	0.9978	0.9372
specificity	0.9665	0.8247
precision	0.9856	0.9248
f1_score	0.9882	0.9027