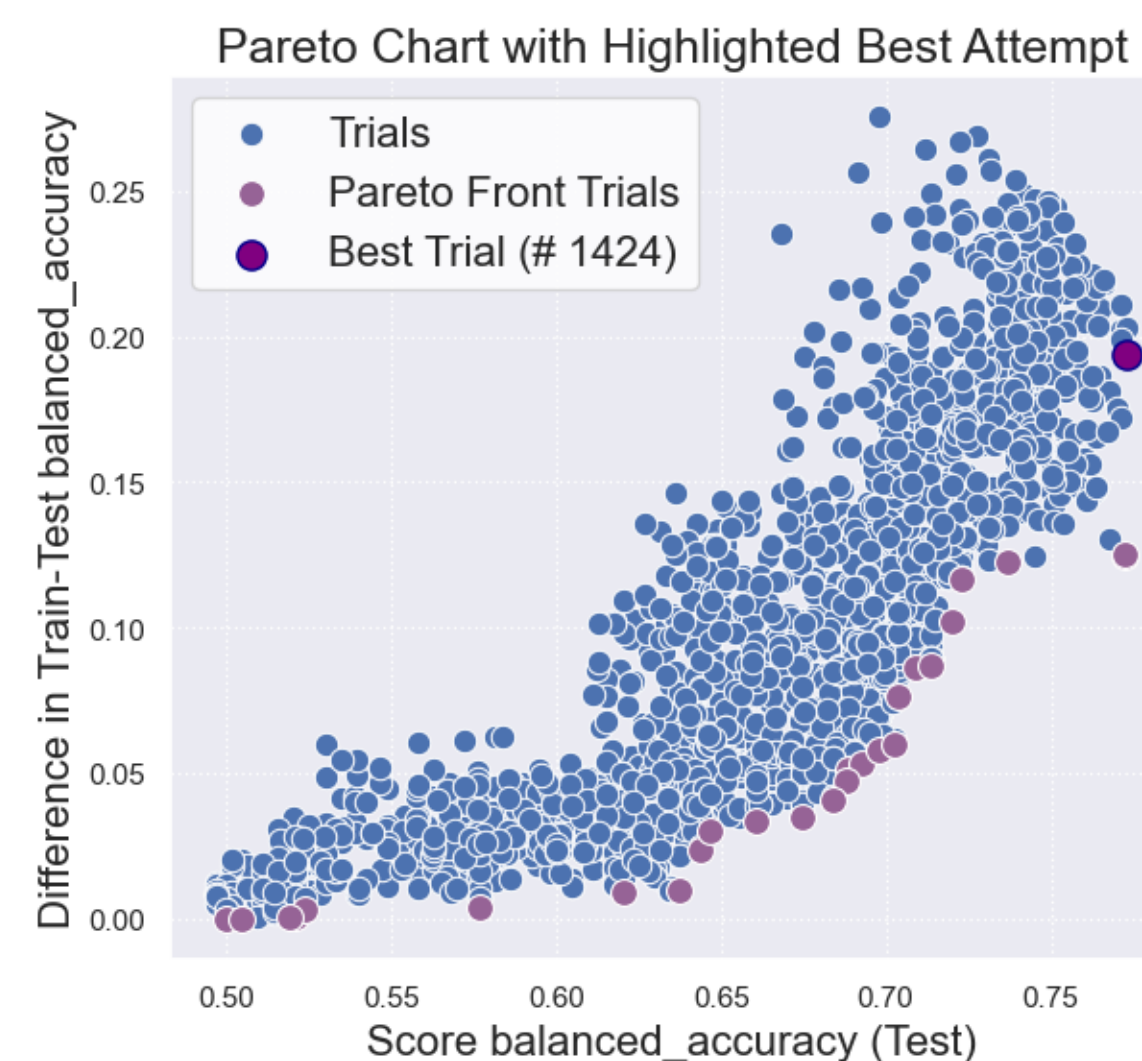
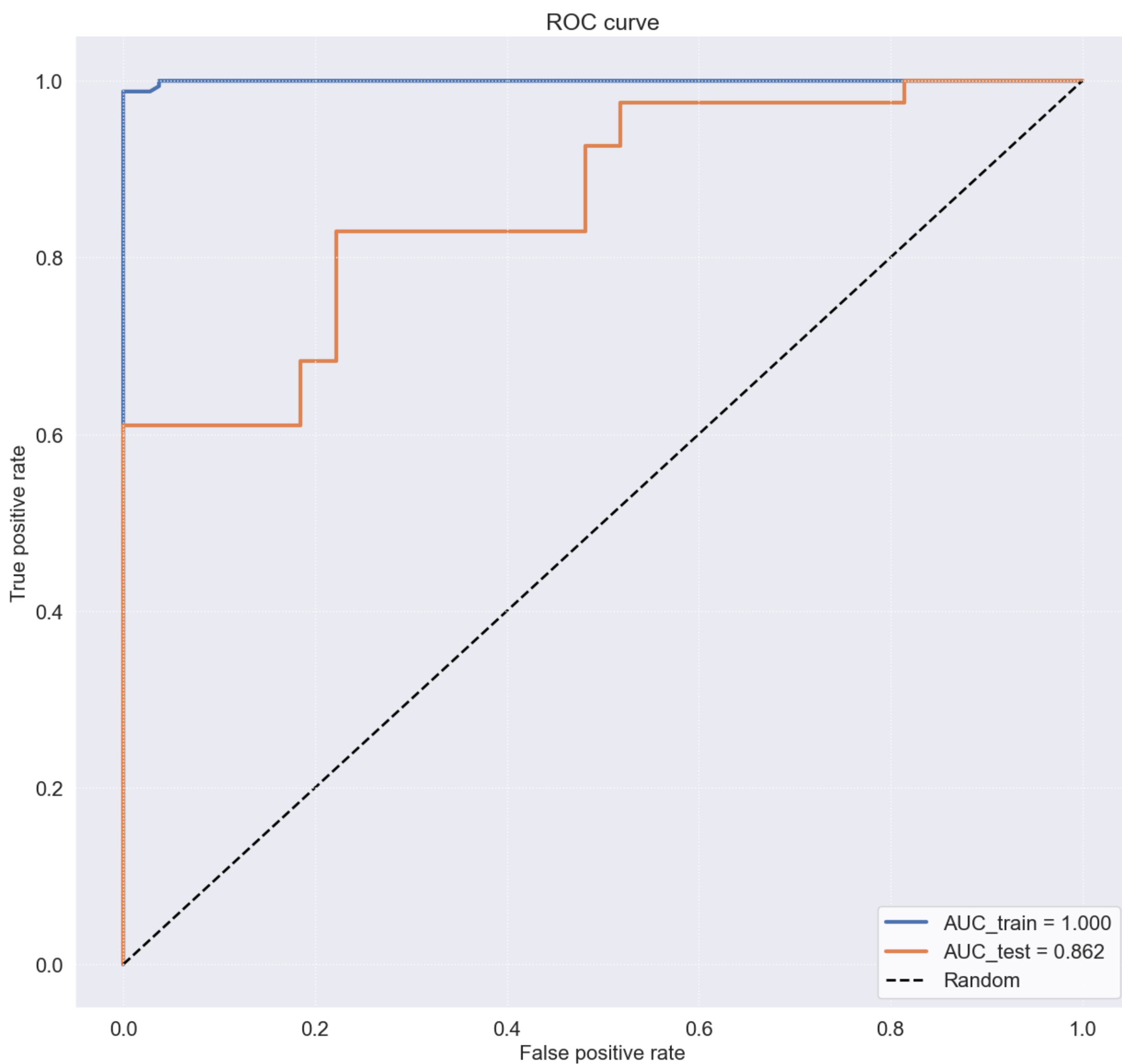
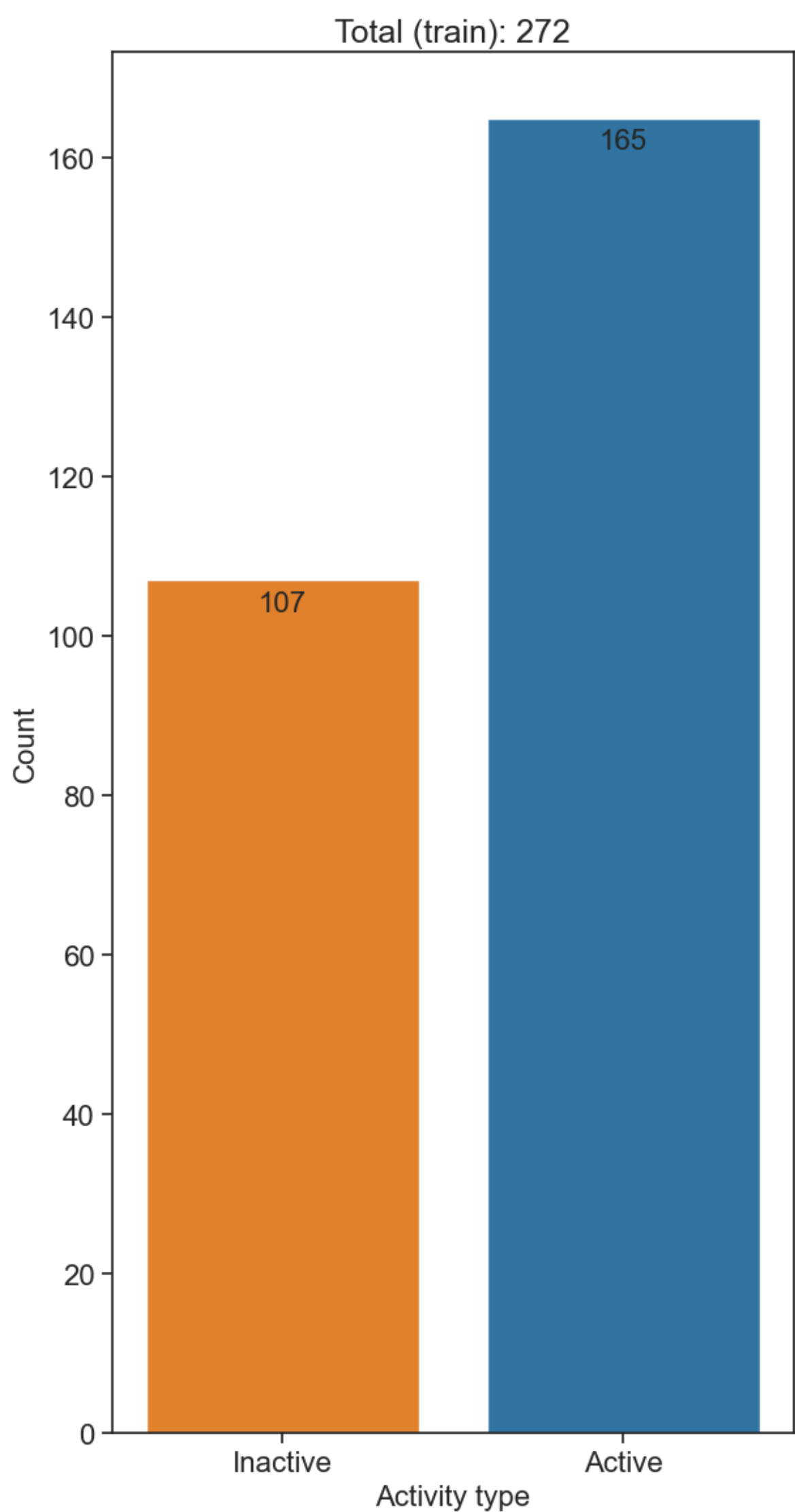
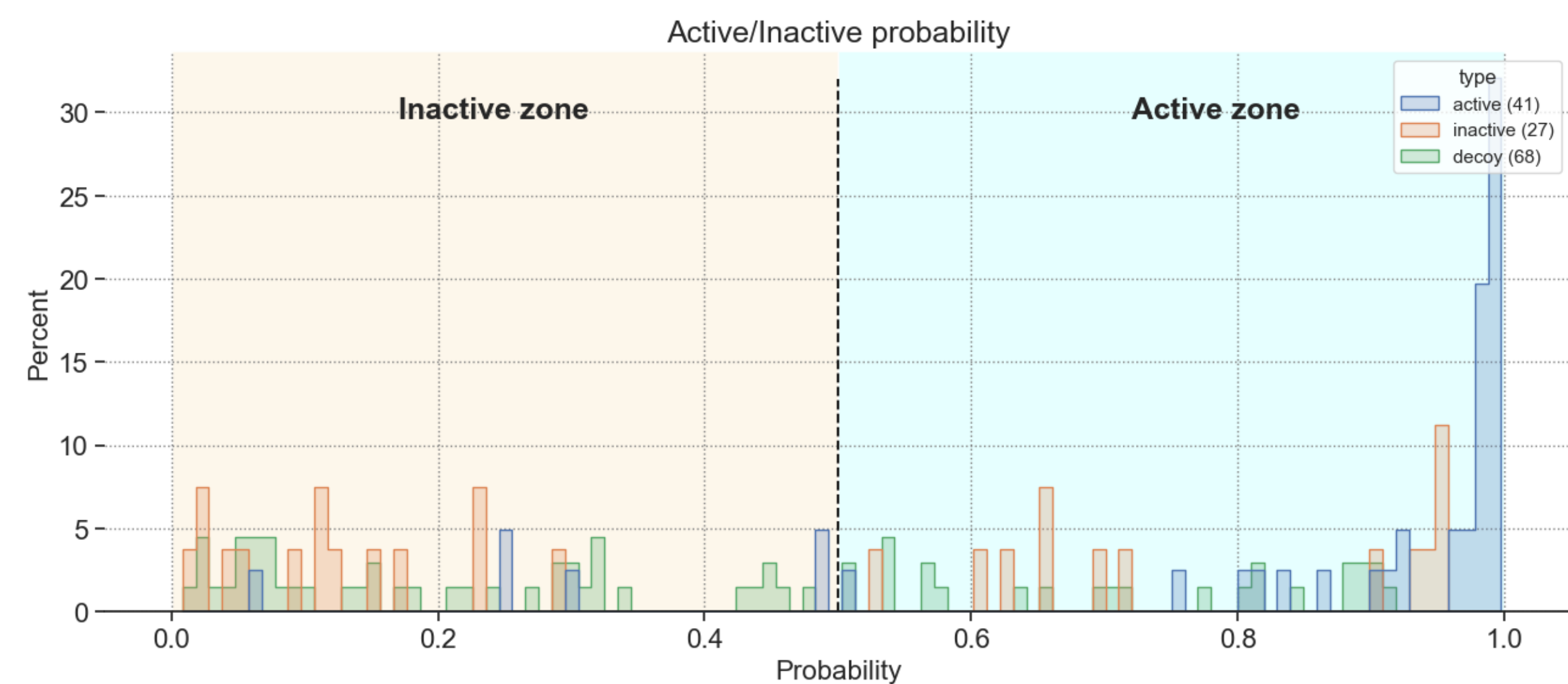
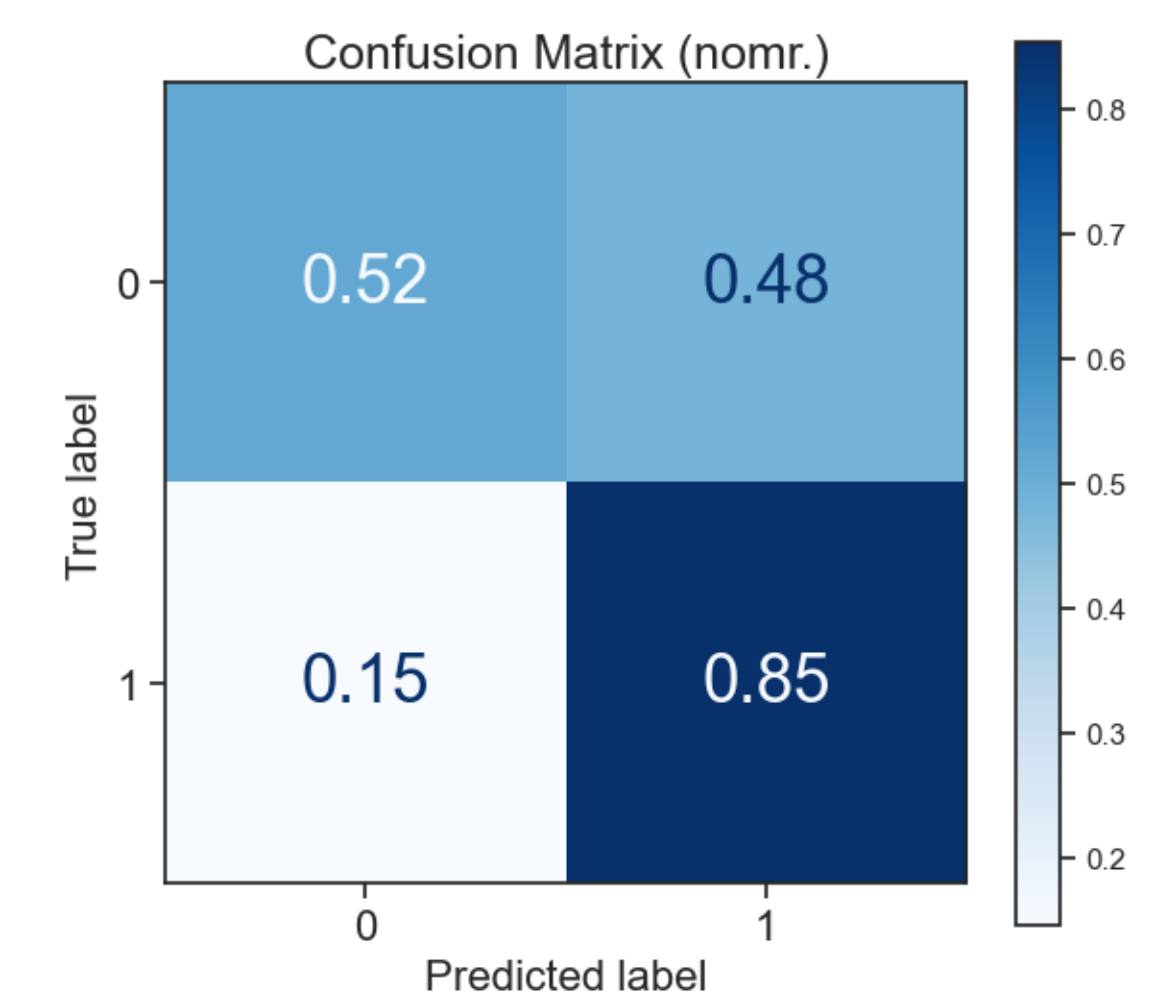
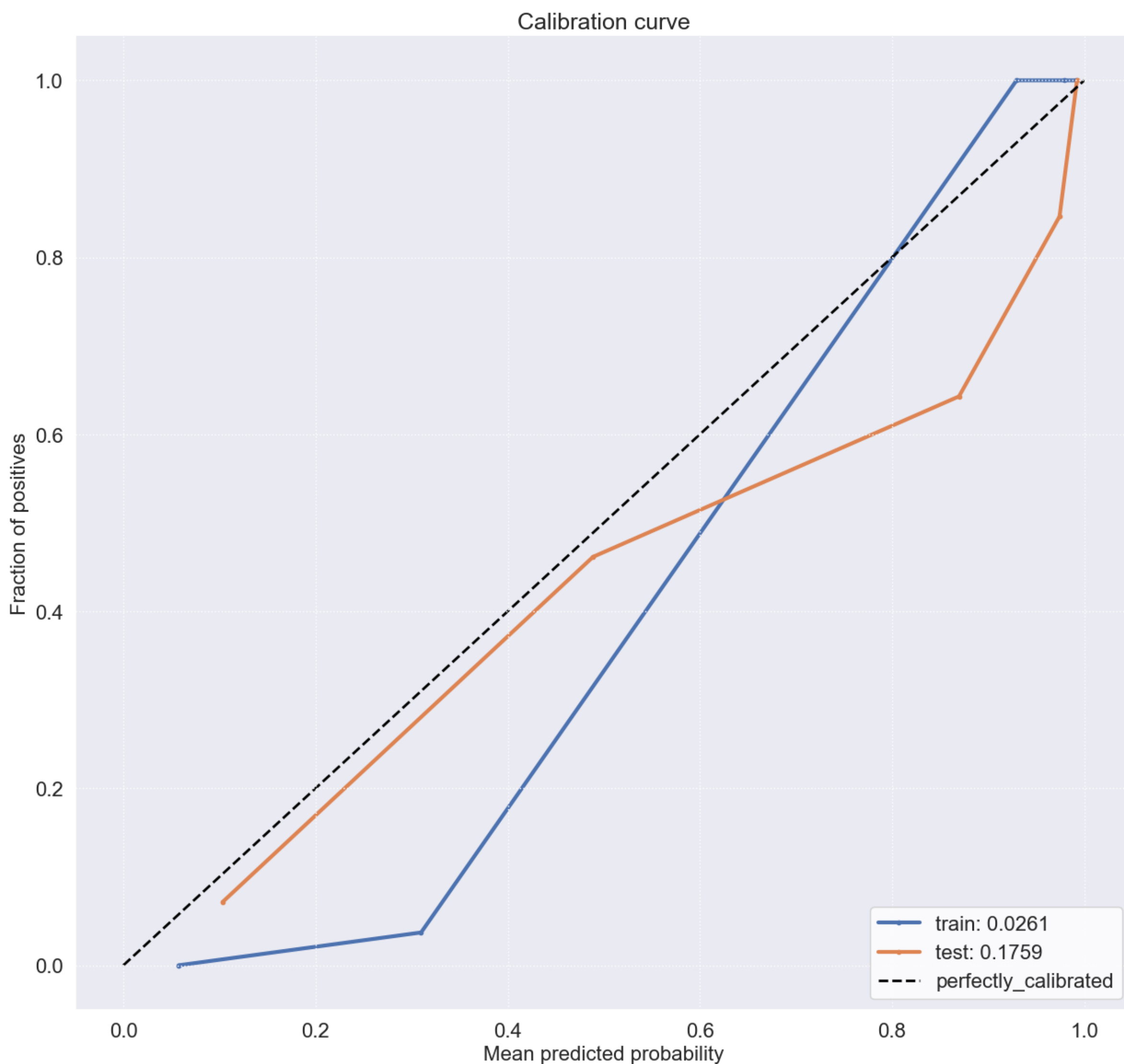
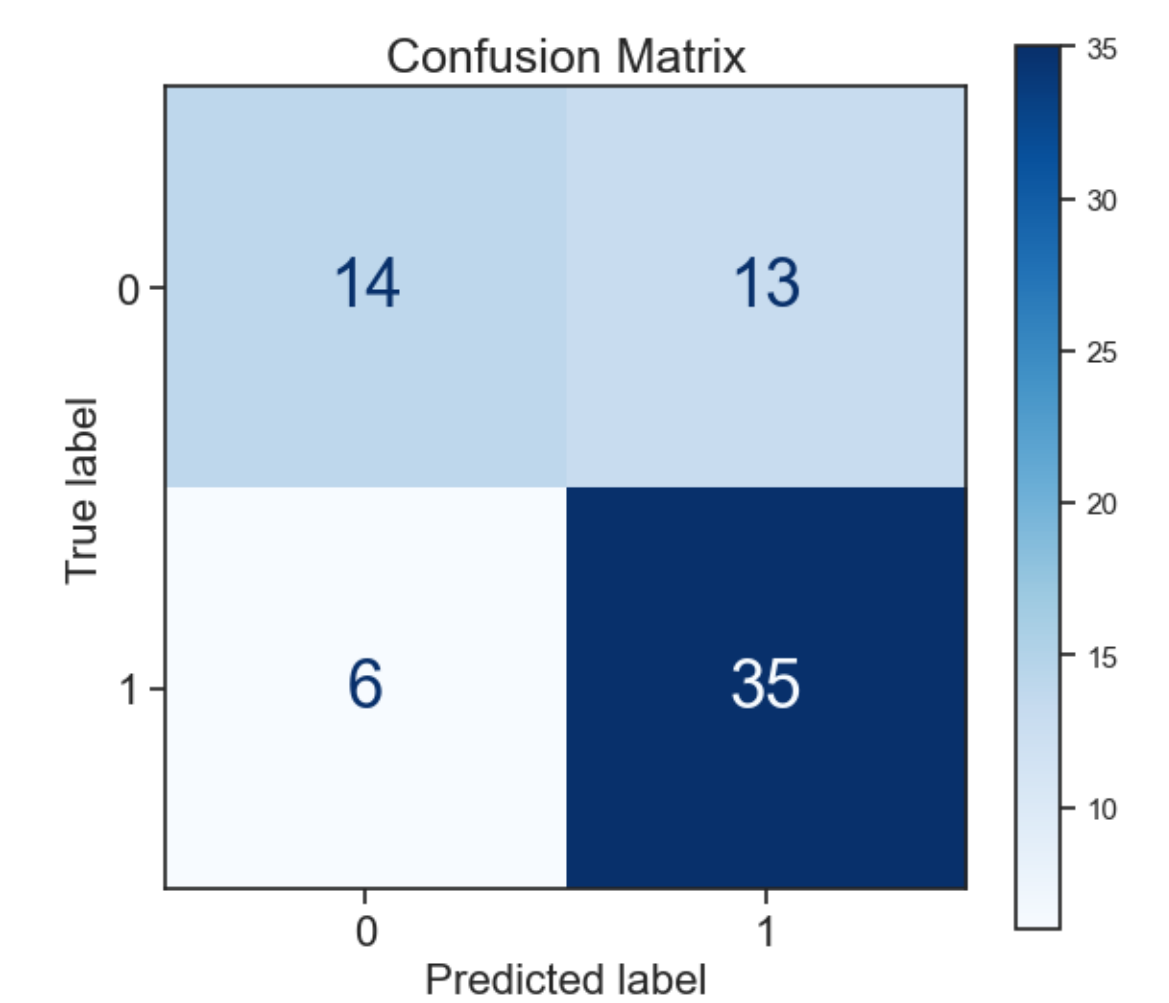


Protein: P06241 - metric: balanced\_accuracy



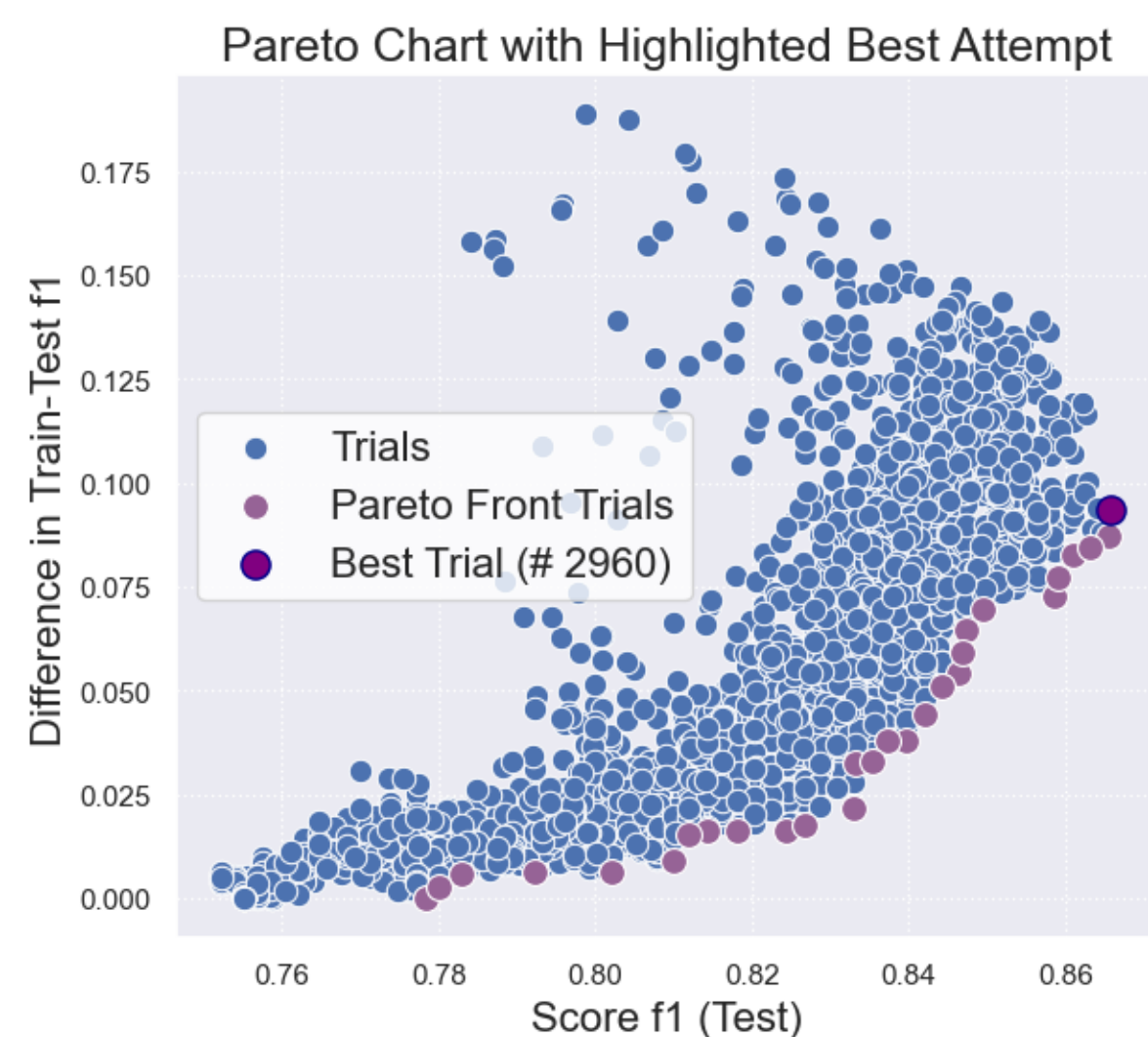
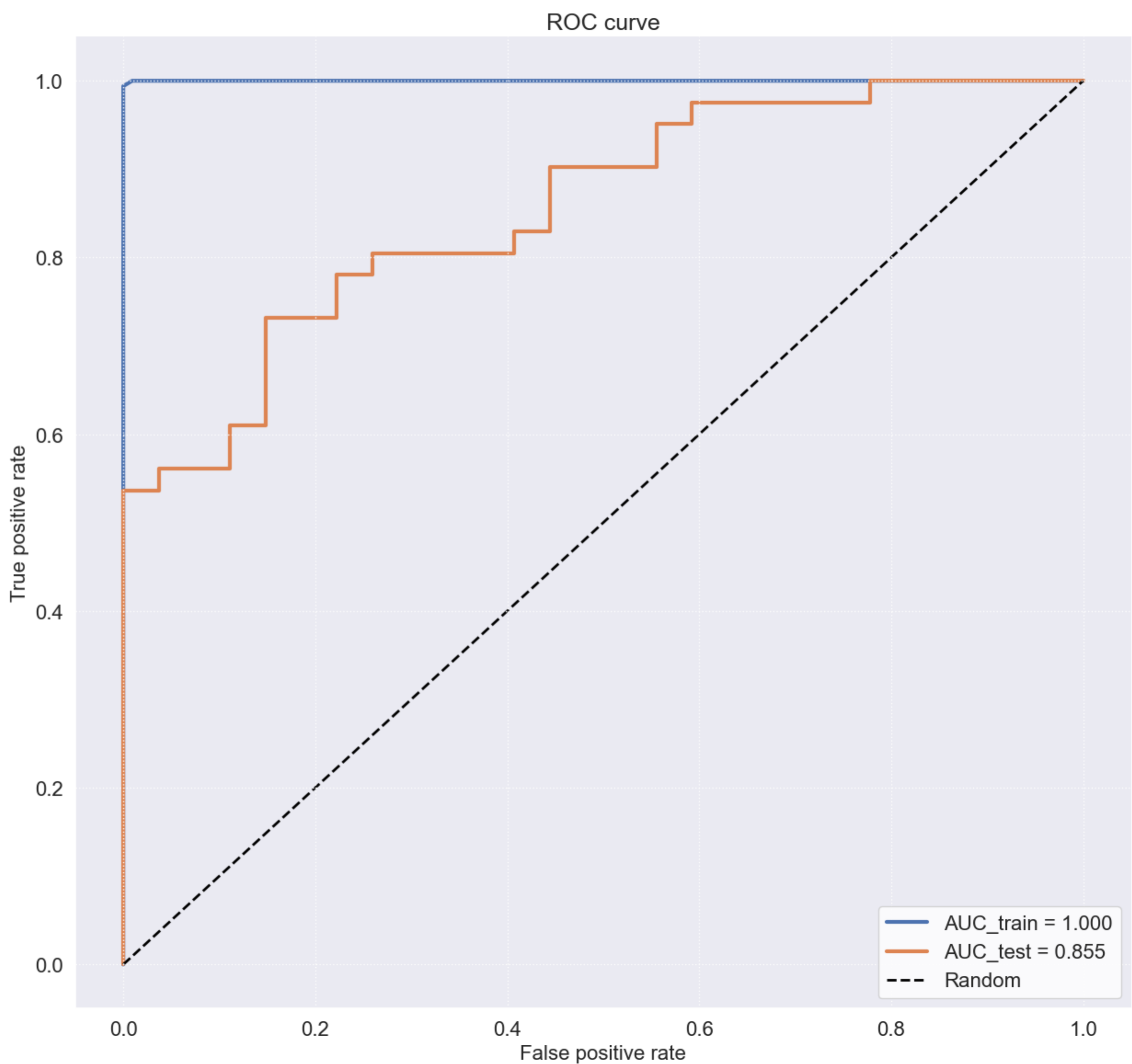
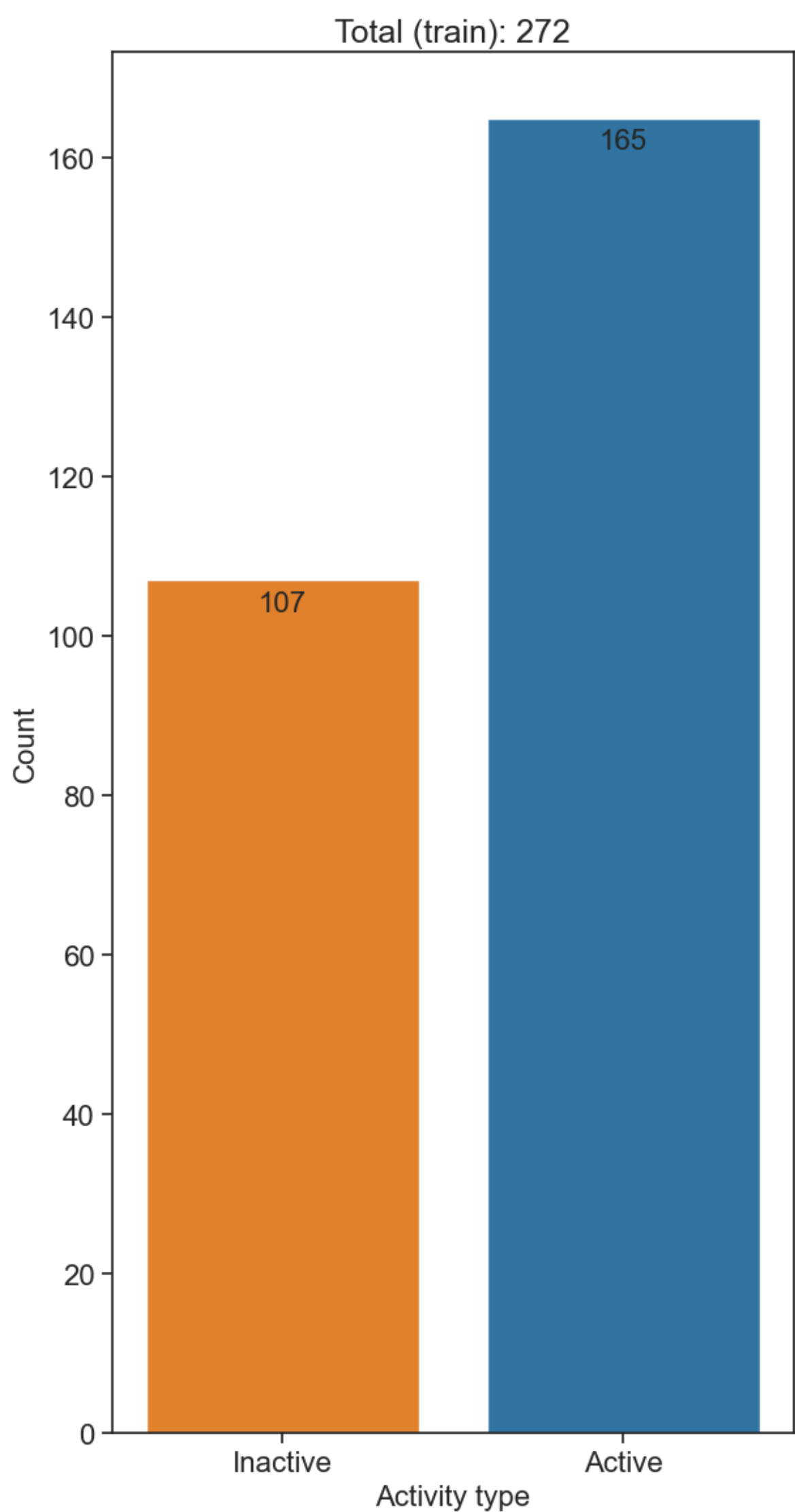
XGBoost Parameters	Value
alpha	2.3463
colsample_bytree	0.8495
gamma	0.6424
lambda	0.4644
learning_rate	0.0277
max_depth	9.0
min_child_weight	1.0
n_estimators	628.0
reg_alpha	0.5145
reg_lambda	0.9611
scale_pos_weight	3.1216
subsample	0.7249



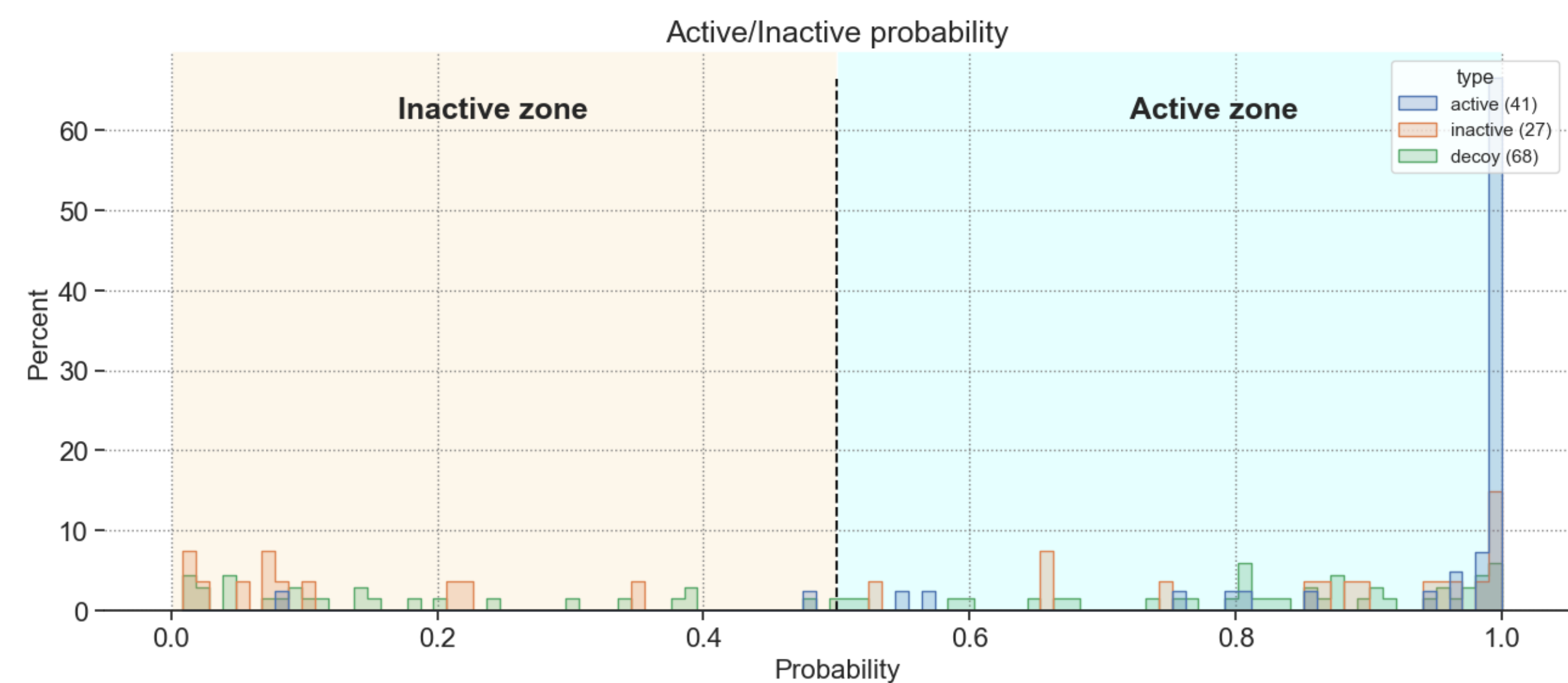
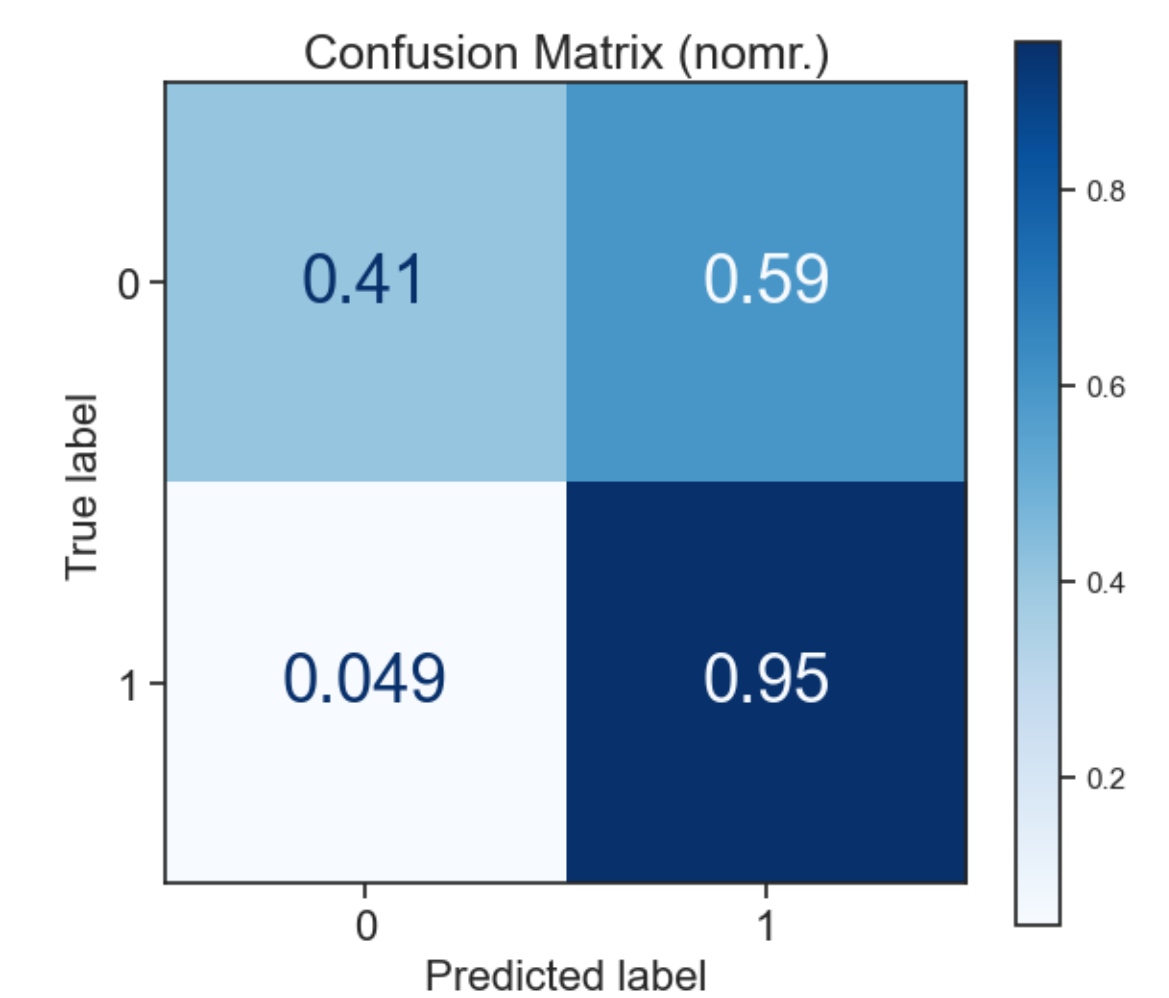
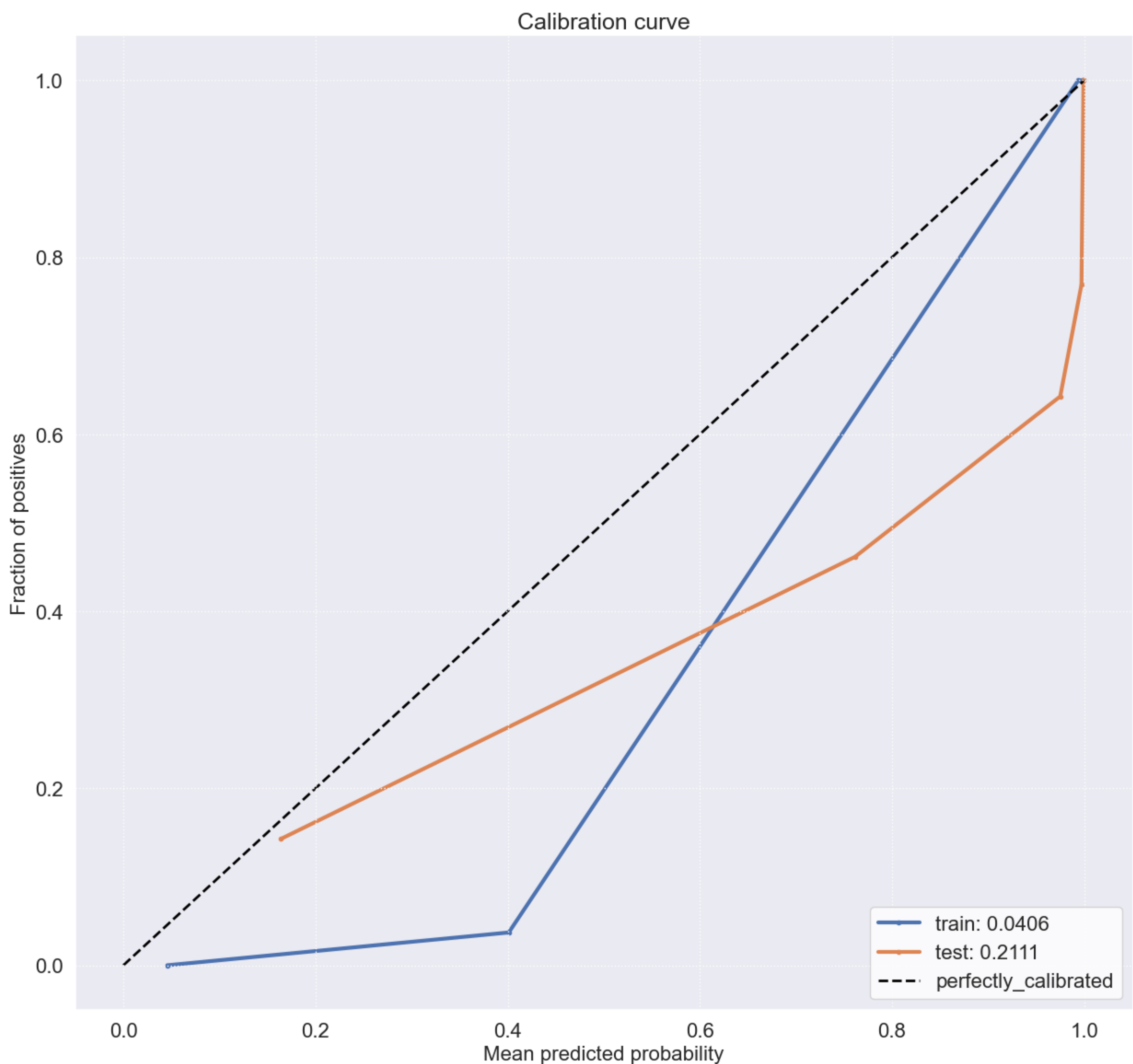
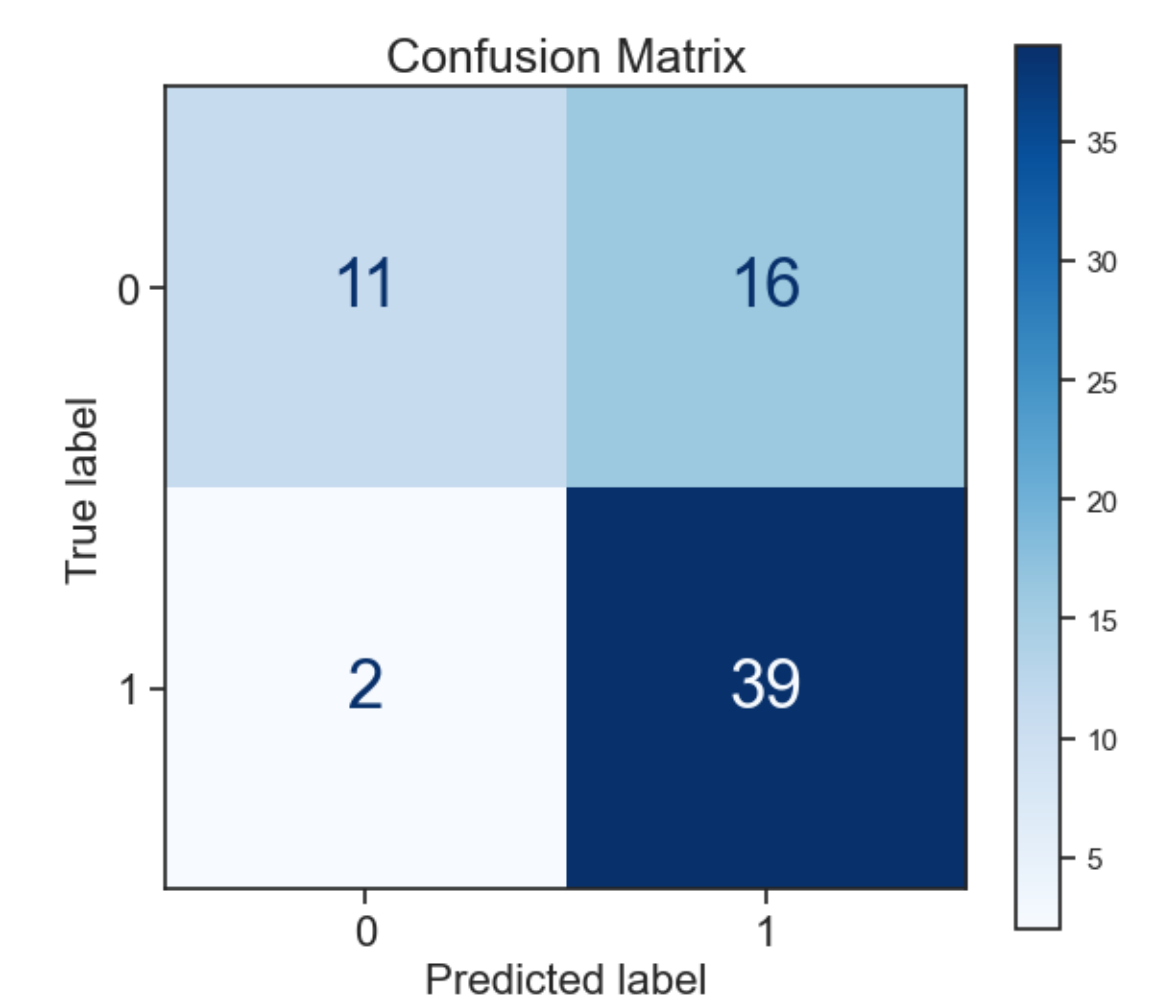
Metric	Train	Test
AUC	0.9996	0.8618
accuracy	0.9779	0.7206
balanced accuracy	0.972	0.6861
recall_(sens)	1.0	0.8537
specificity	0.9439	0.5185
precision	0.9649	0.7292
f1_score	0.9778	0.7108



Protein: P06241 - metric: f1



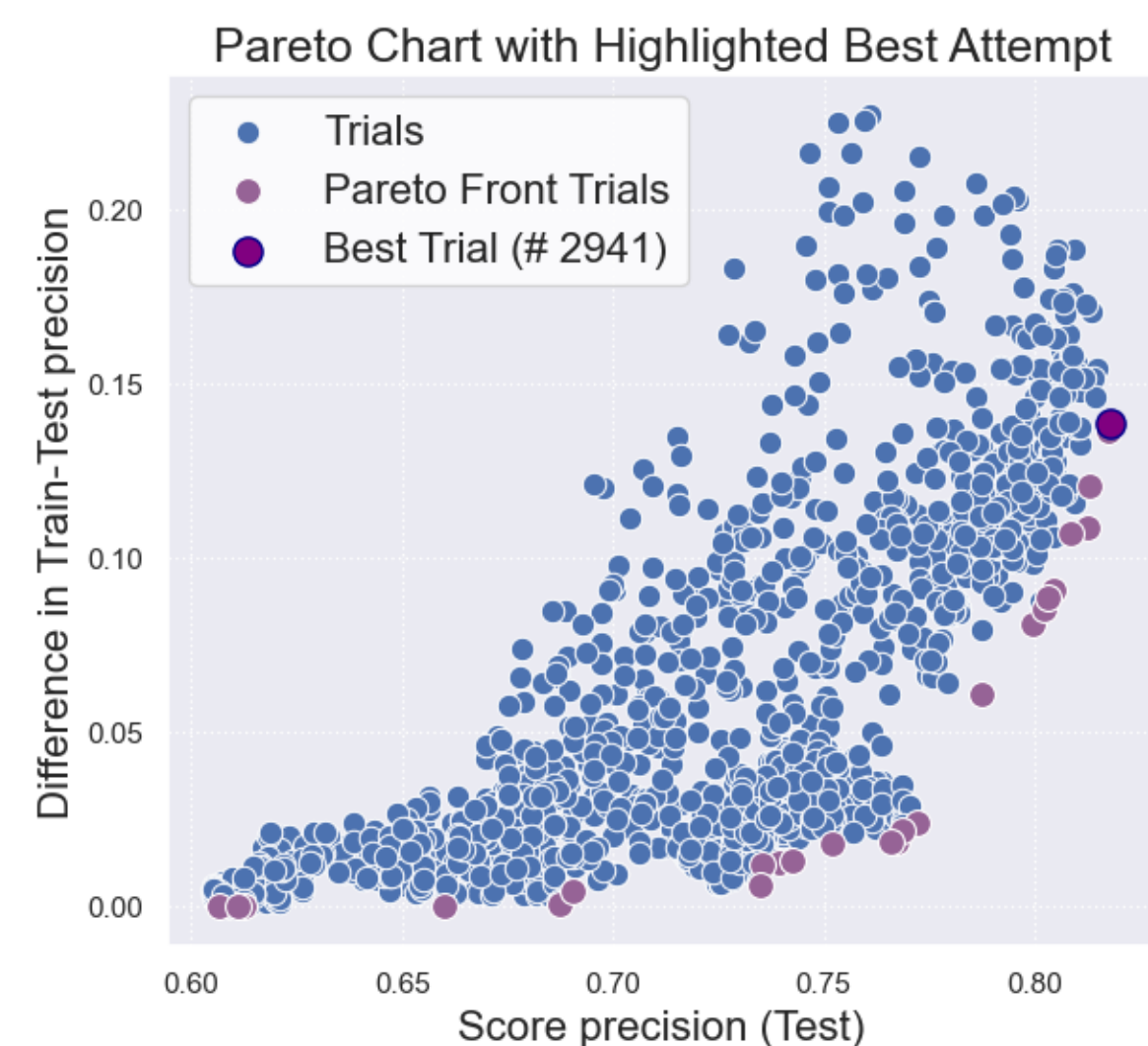
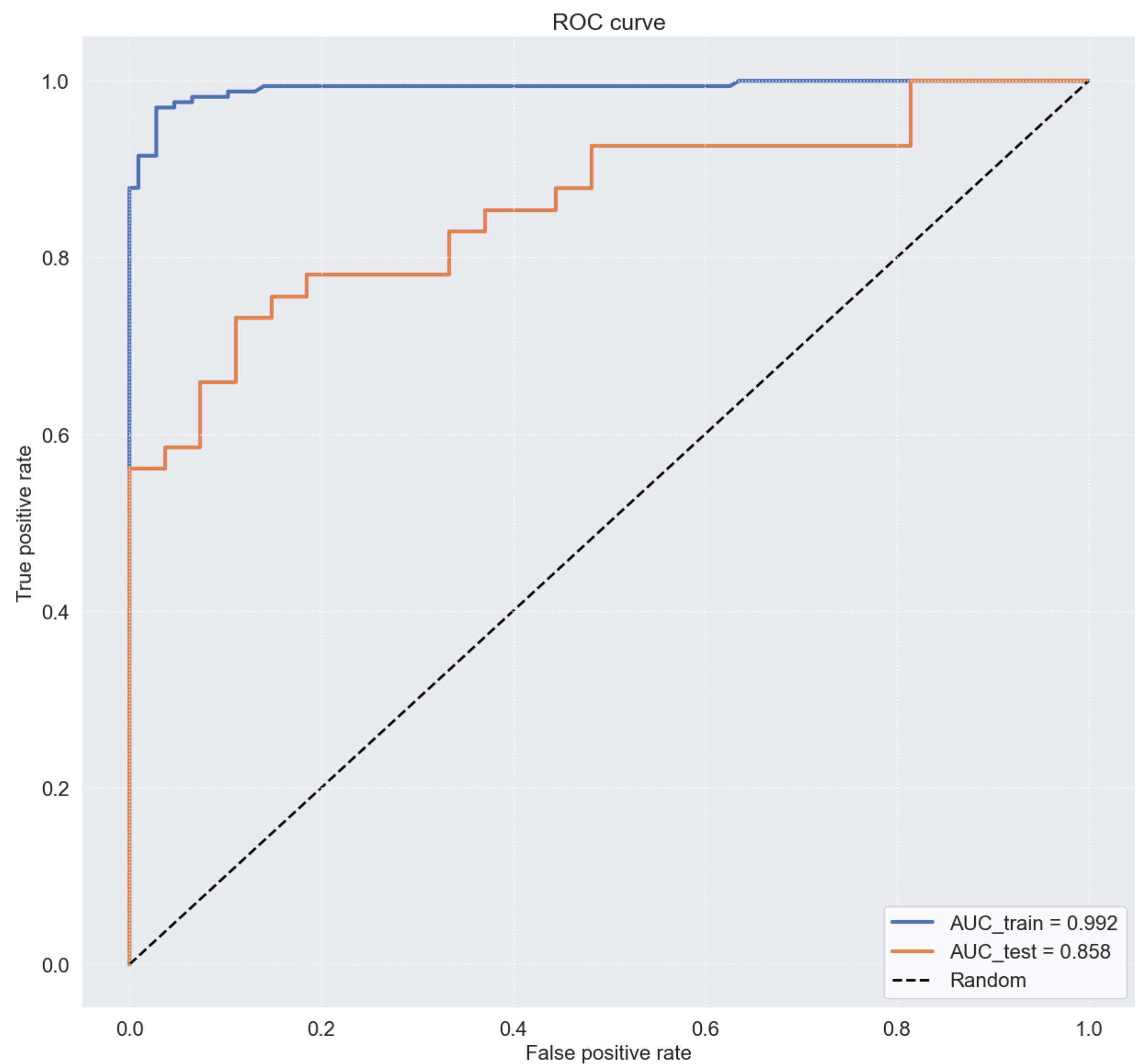
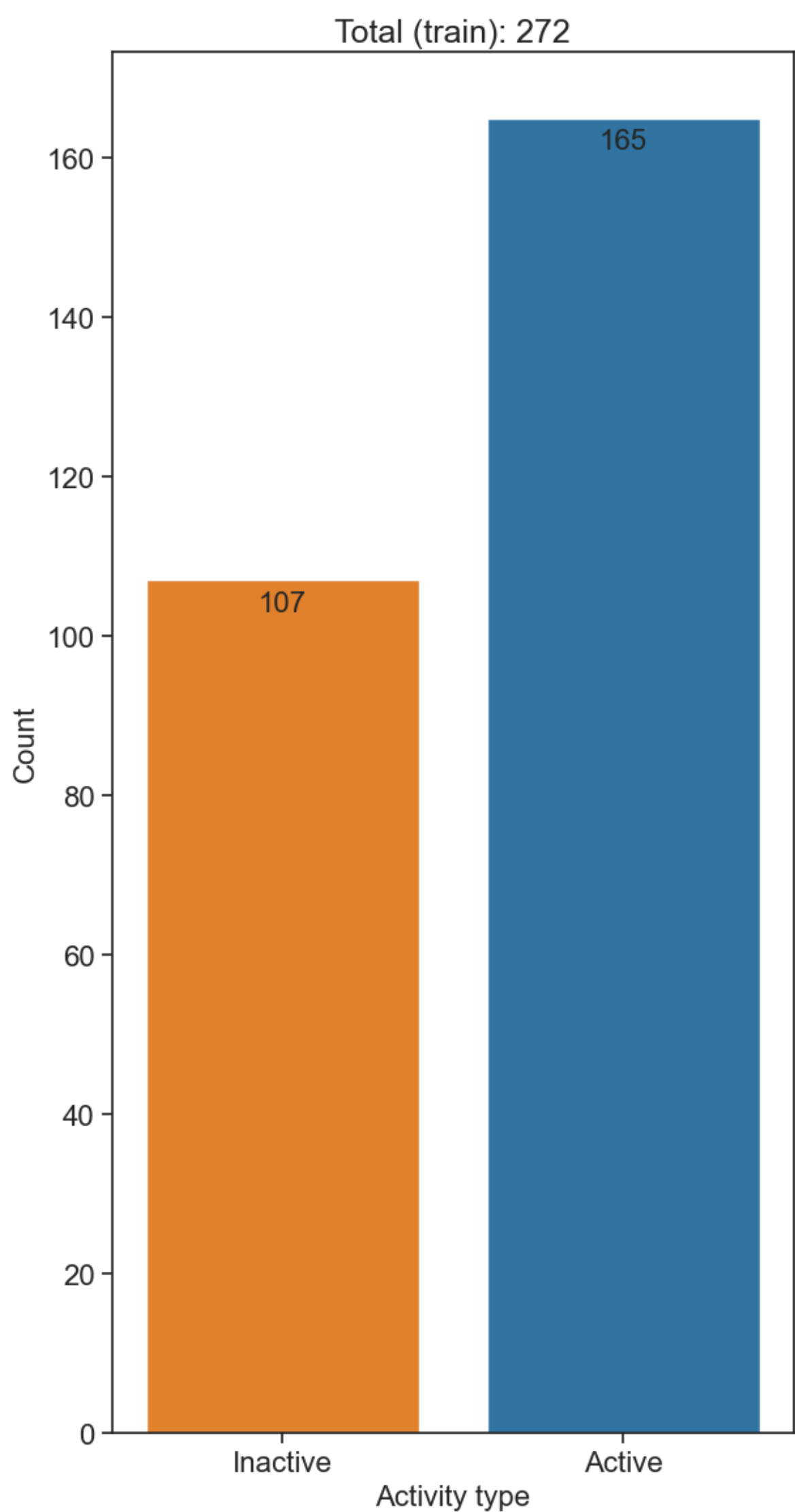
XGBoost Parameters	Value
alpha	3.8311
colsample_bytree	0.5306
gamma	0.1097
lambda	4.8321
learning_rate	0.0327
max_depth	9.0
min_child_weight	1.0
n_estimators	291.0
reg_alpha	0.5021
reg_lambda	0.6337
scale_pos_weight	48.923
subsample	0.7515



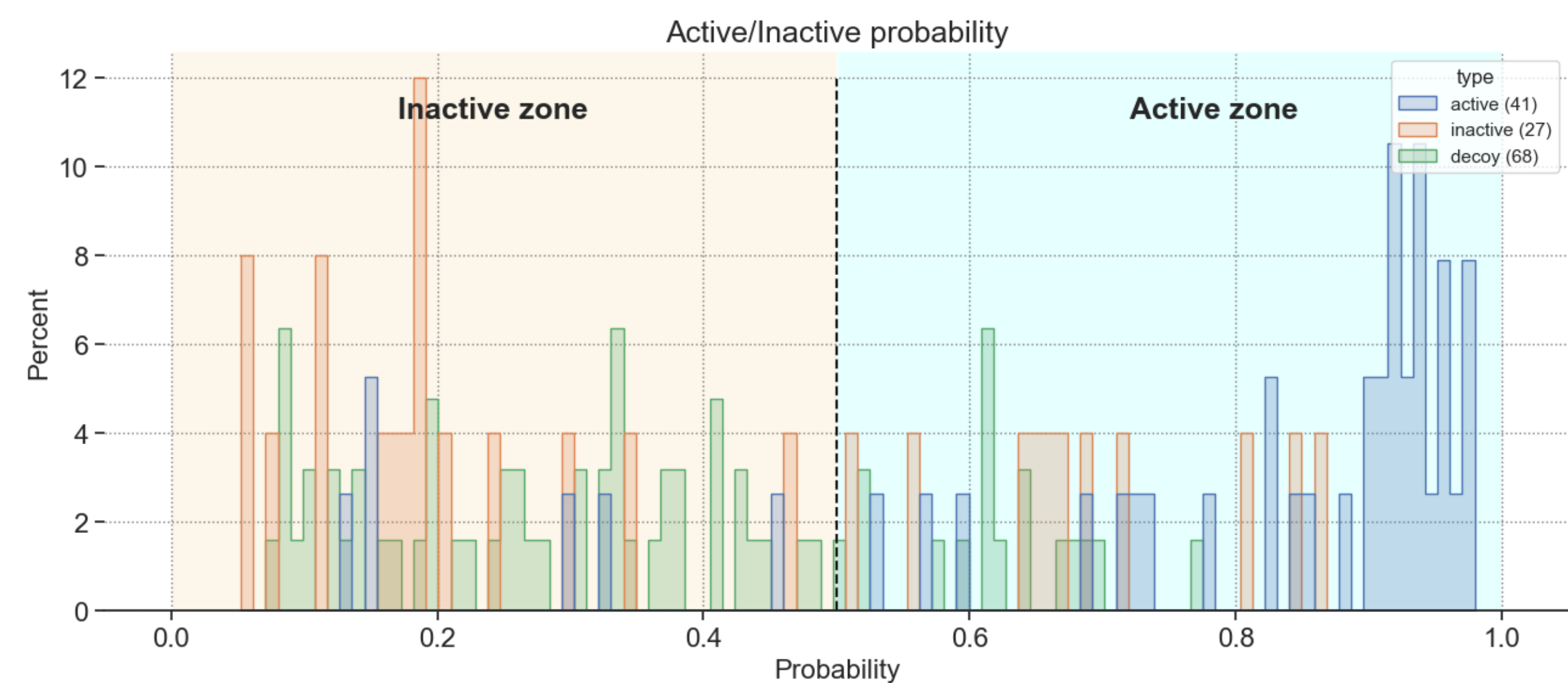
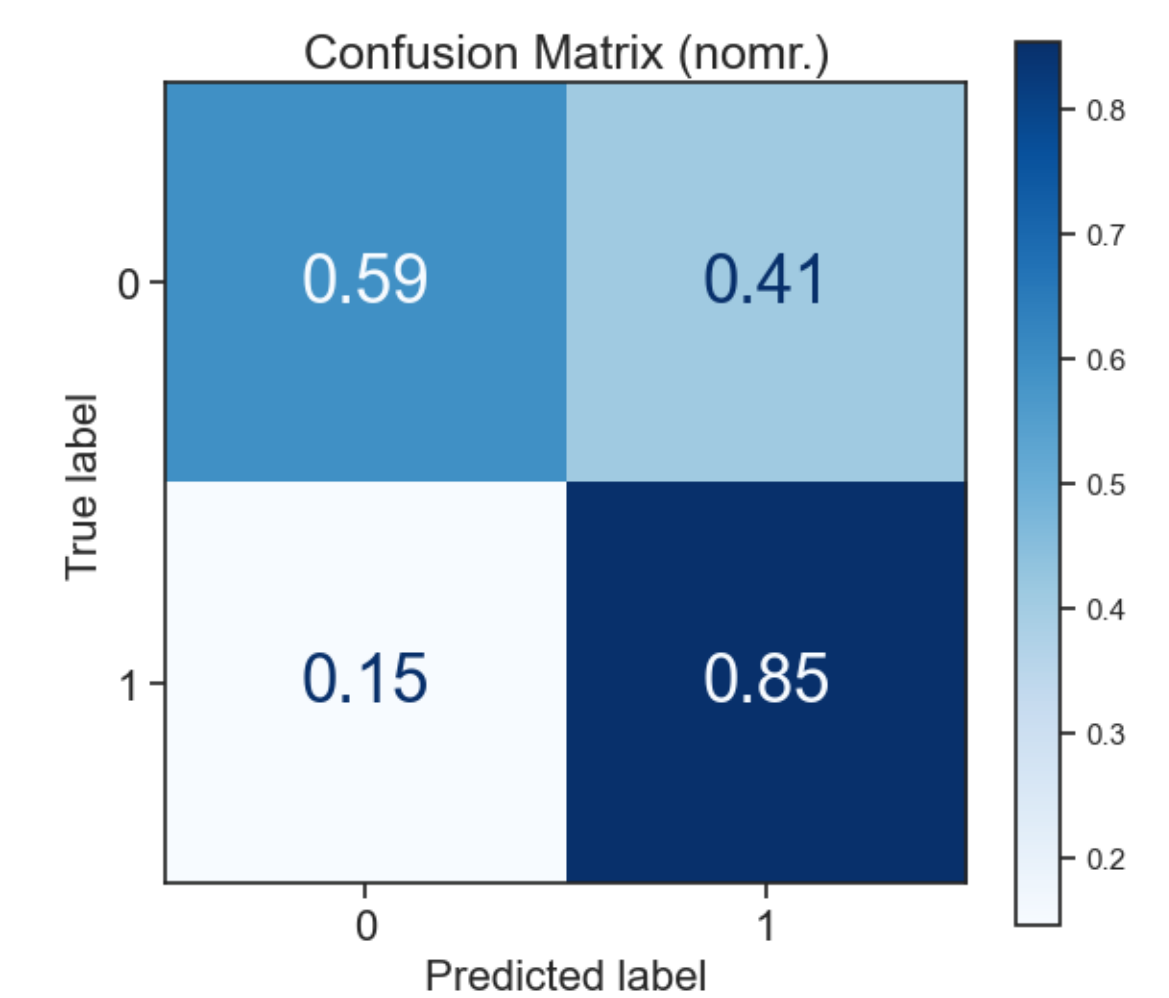
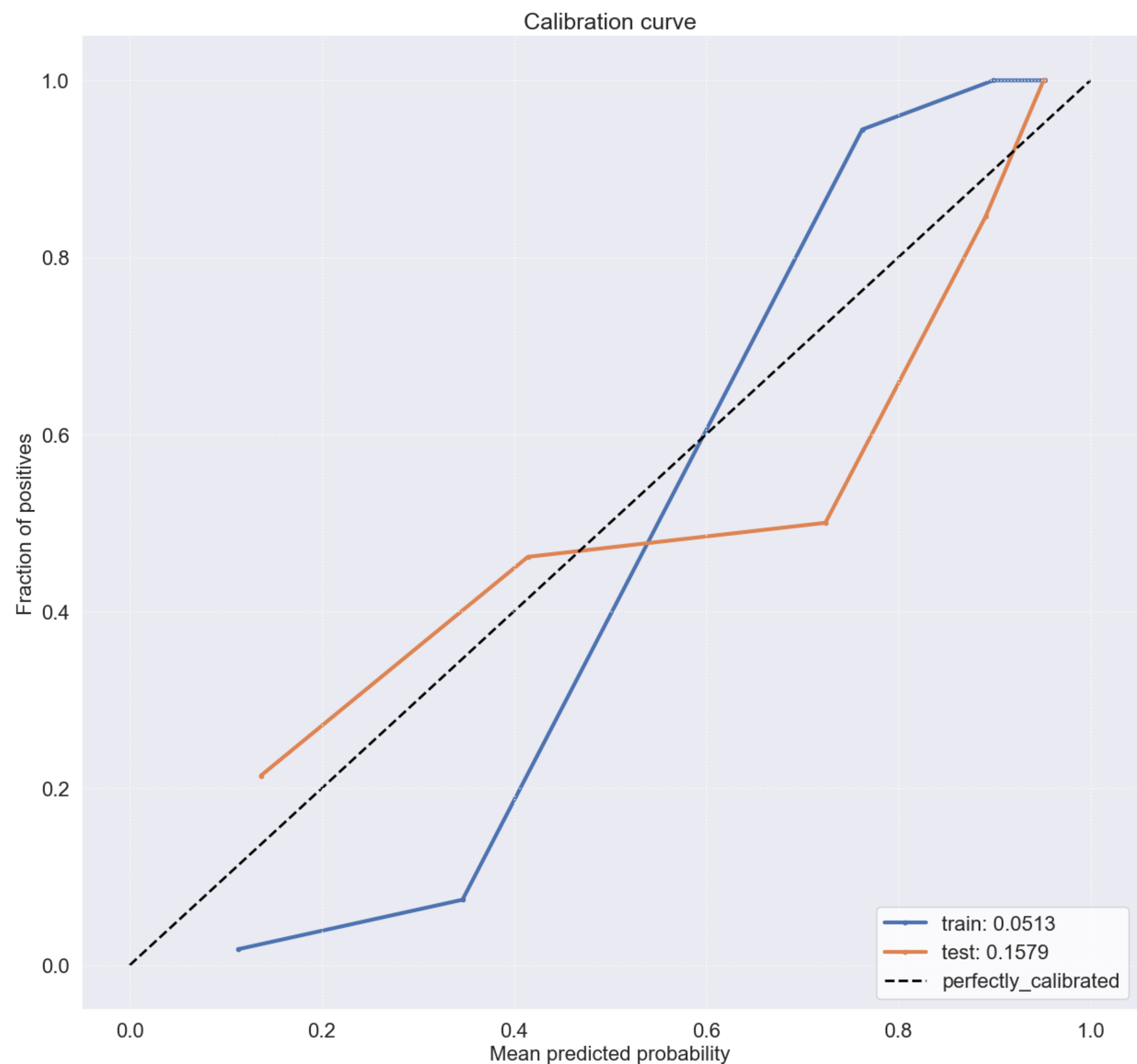
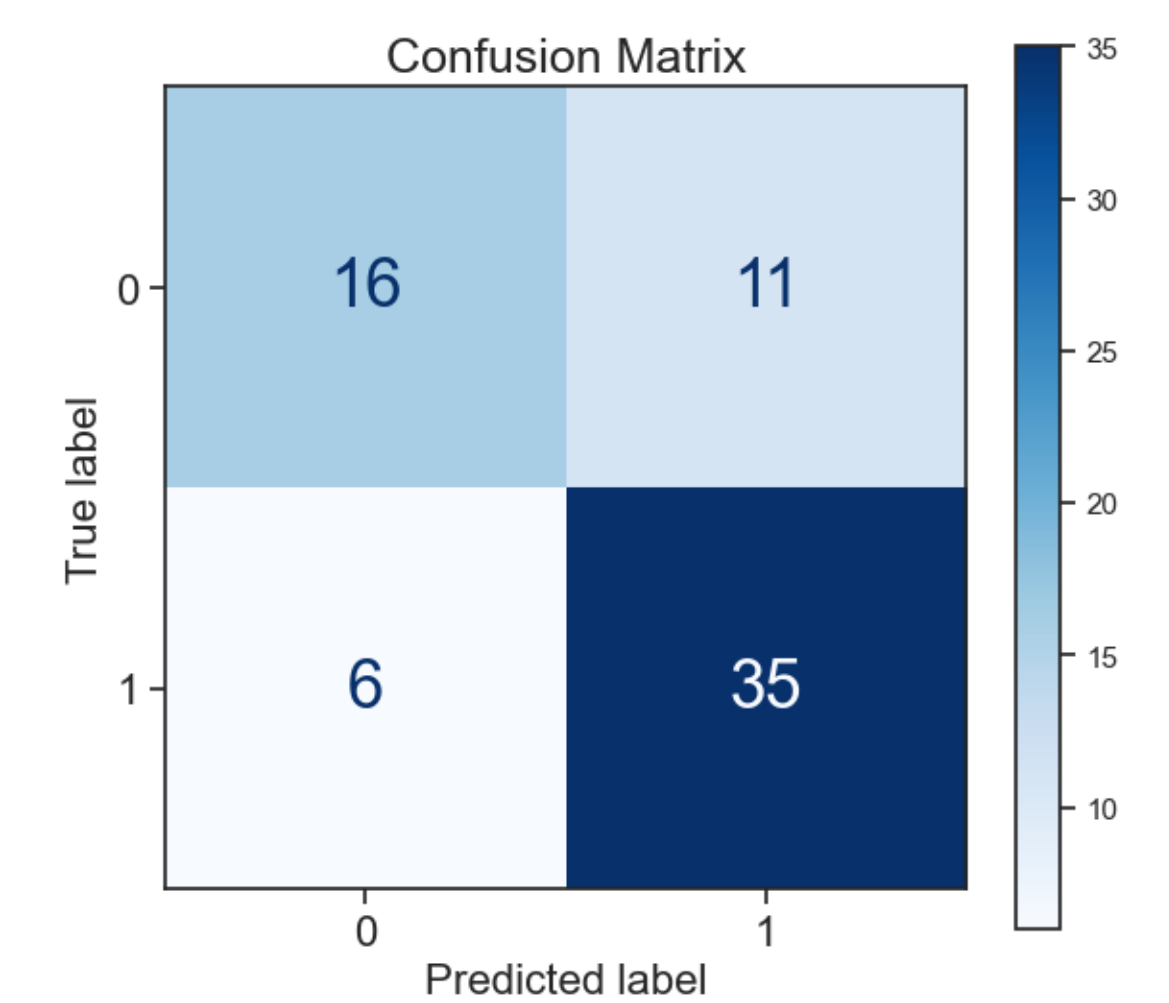
Metric	Train	Test
AUC	1.0	0.8555
accuracy	0.9485	0.7353
balanced accuracy	0.9346	0.6793
recall_(sens)	1.0	0.9512
specificity	0.8692	0.4074
precision	0.9218	0.7091
f1_score	0.9478	0.7083



Protein: P06241 - metric: precision



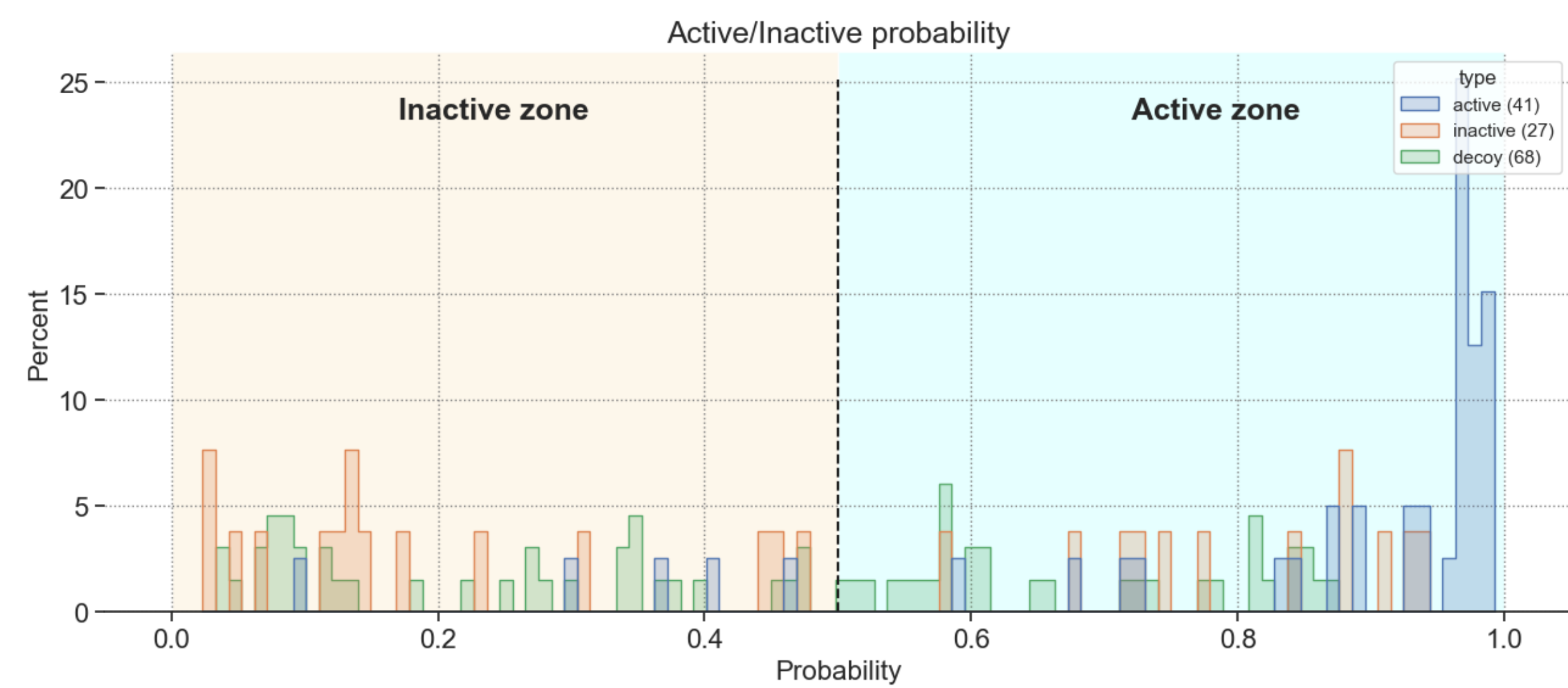
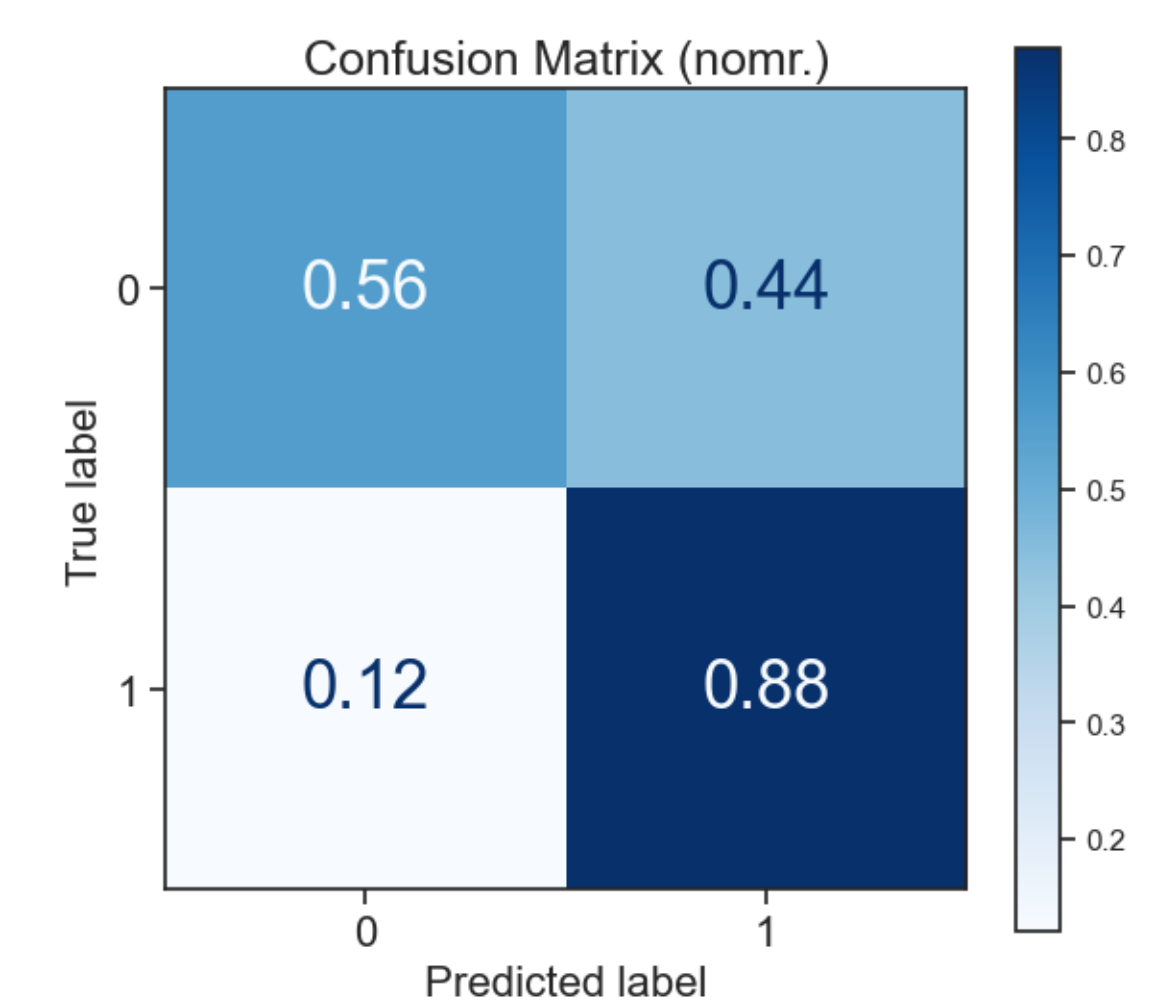
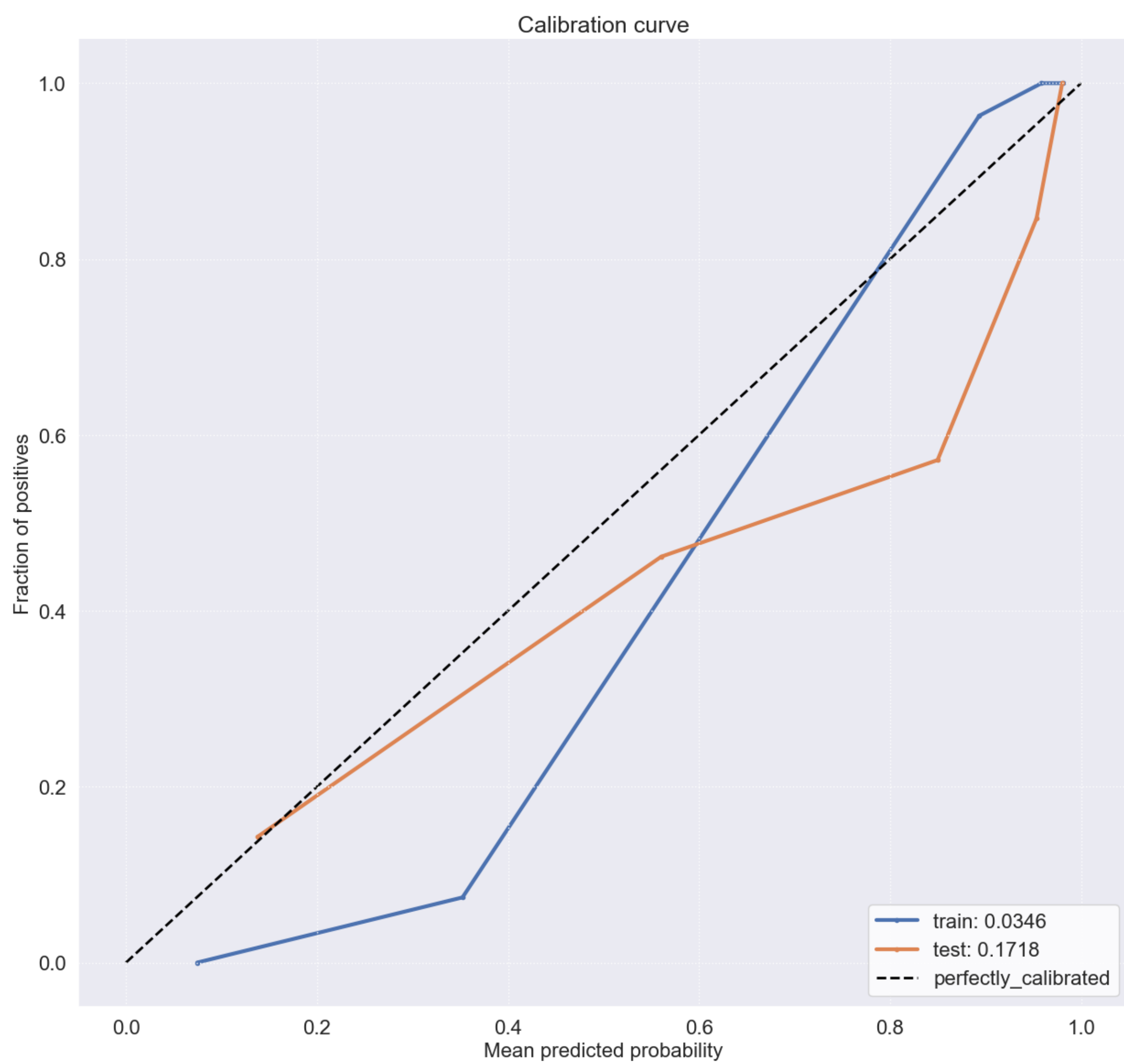
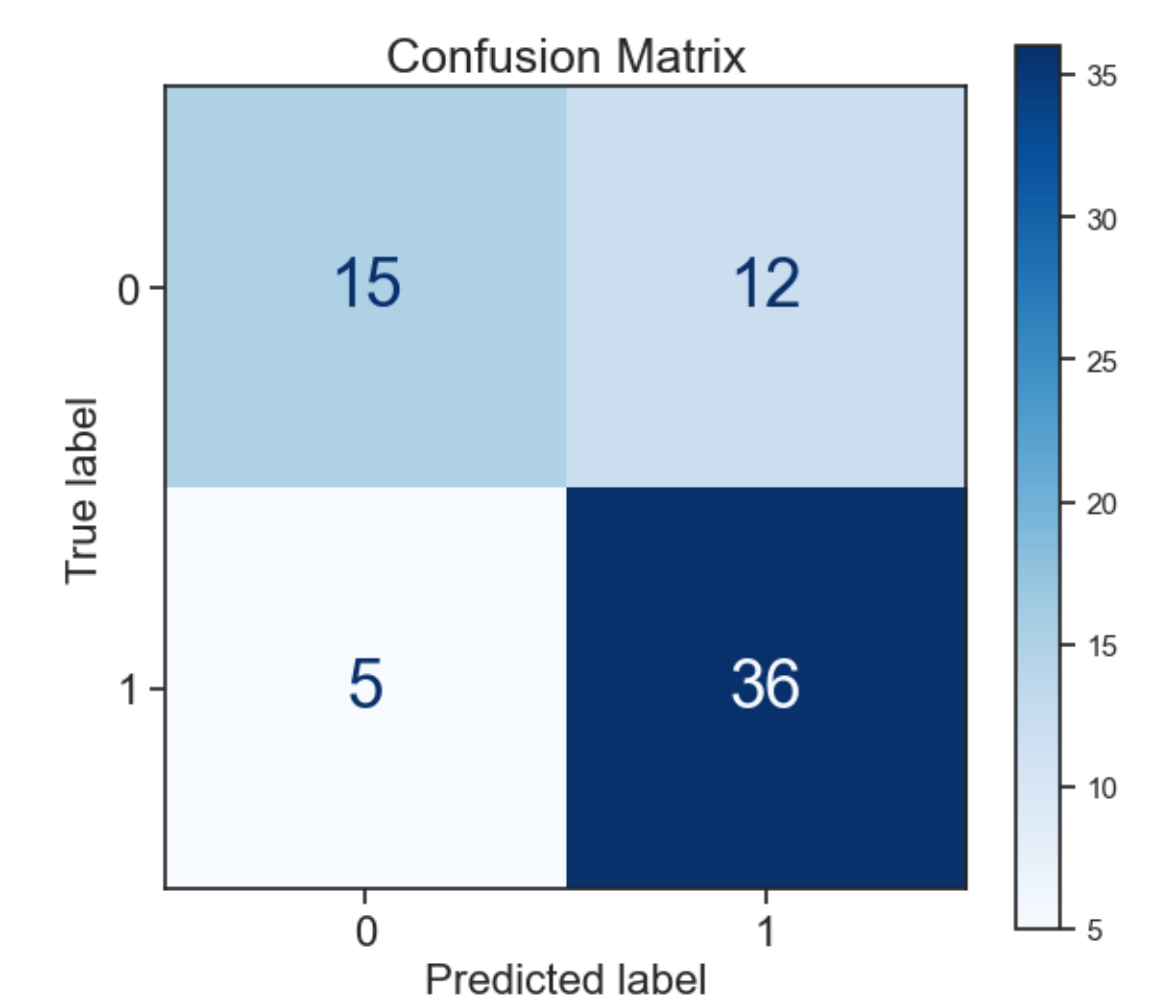
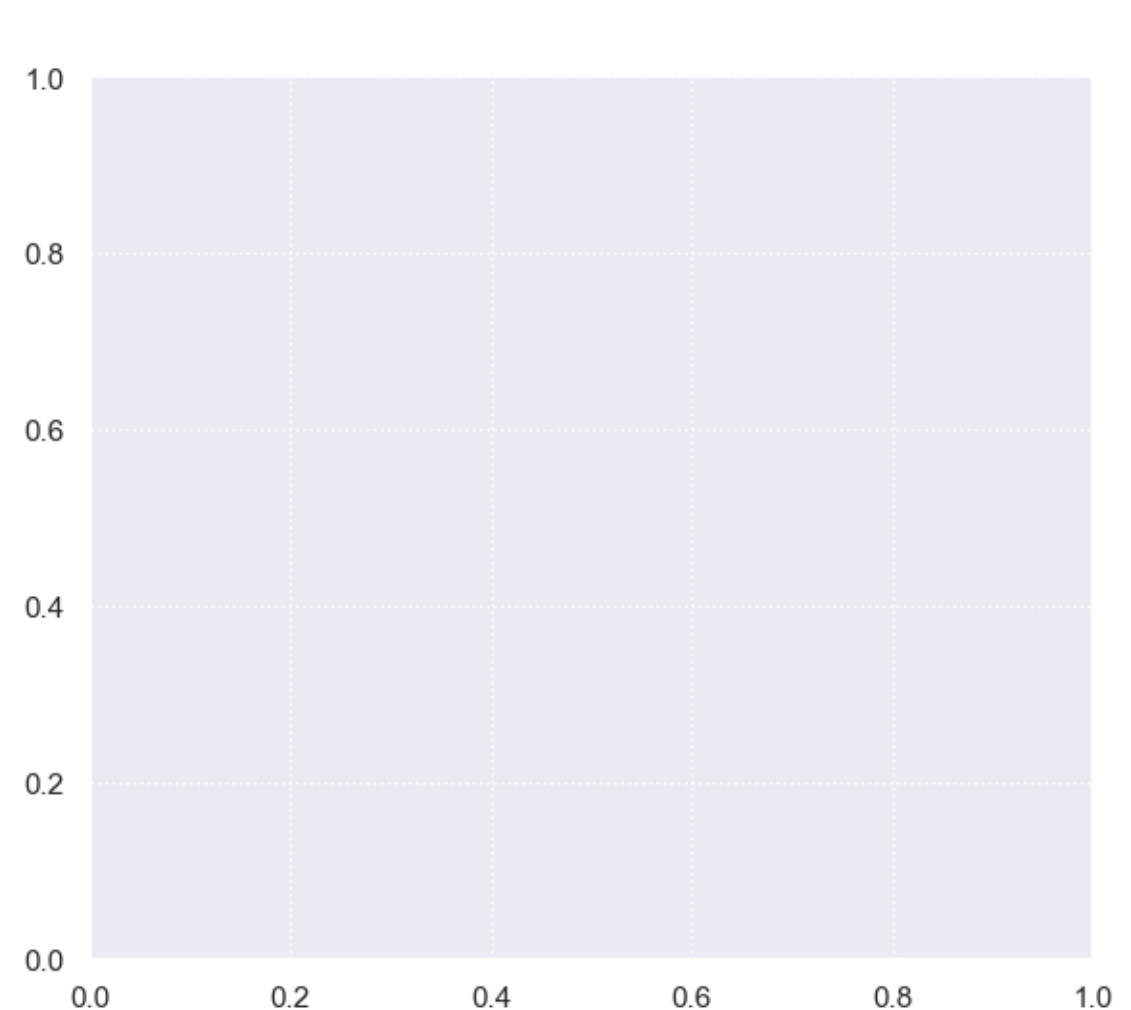
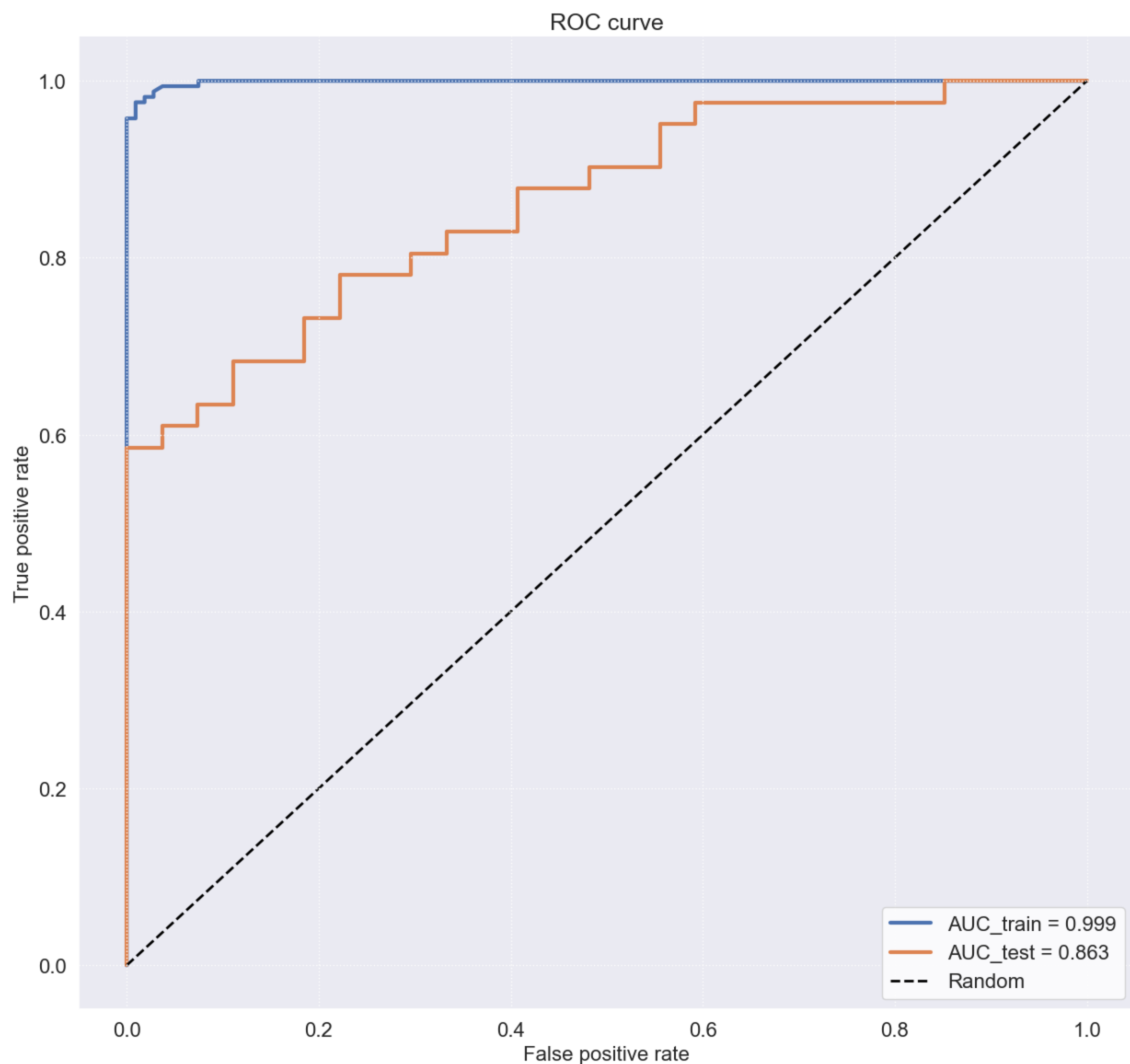
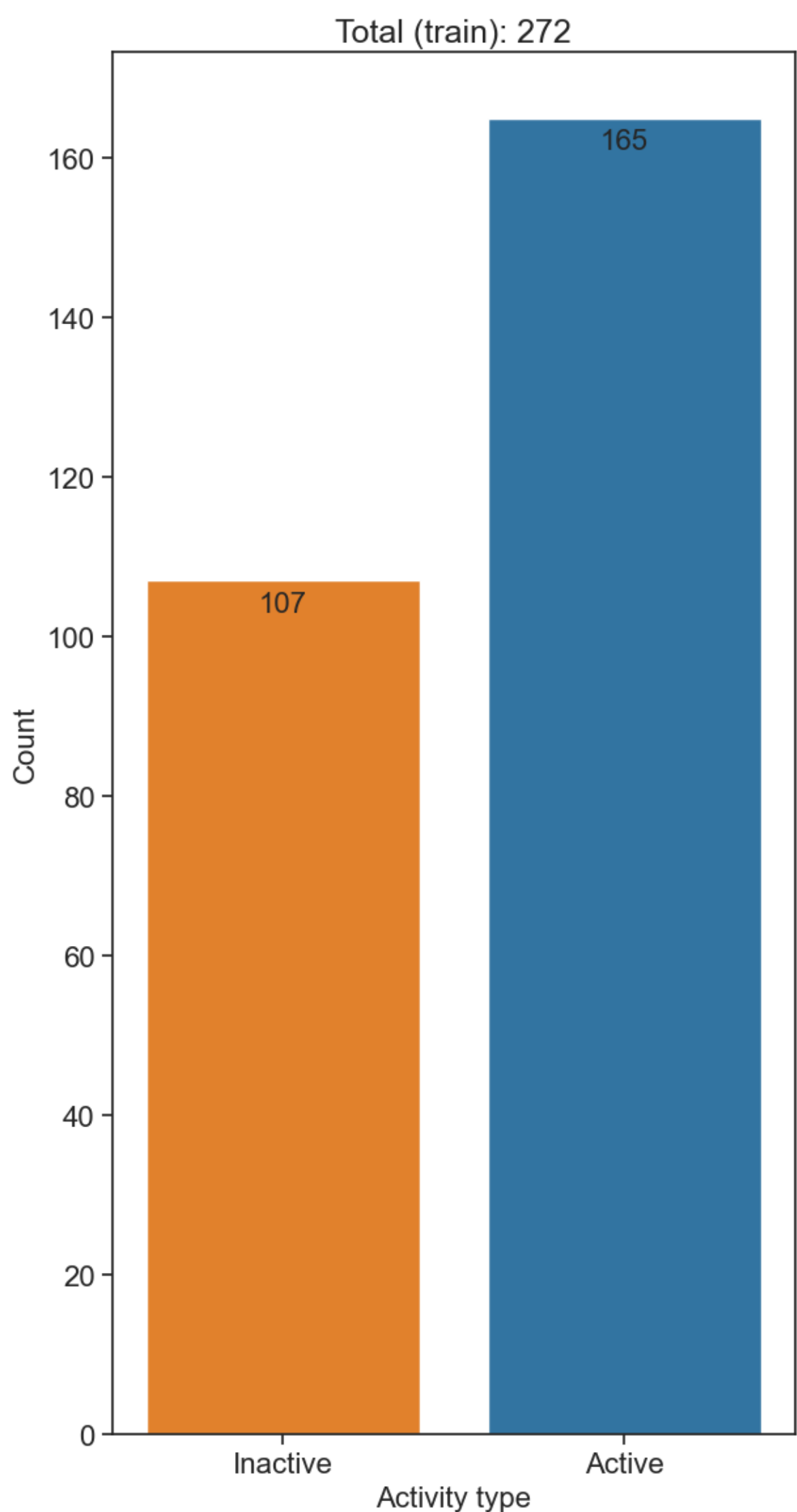
XGBoost Parameters	Value
alpha	0.8228
colsample_bytree	0.613
gamma	0.069
lambda	2.1164
learning_rate	0.0095
max_depth	6.0
min_child_weight	1.0
n_estimators	449.0
reg_alpha	0.0566
reg_lambda	0.9046
scale_pos_weight	1.1071
subsample	0.6712



Metric	Train	Test
AUC	0.9922	0.8582
accuracy	0.9559	0.75
balanced accuracy	0.9489	0.7231
recall_(sens)	0.9818	0.8537
specificity	0.9159	0.5926
precision	0.9474	0.7609
f1_score	0.9556	0.7444



Protein: P06241 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9989	0.8627
accuracy	0.9559	0.75
balanced accuracy	0.9439	0.7168
recall_(sens)	1.0	0.878
specificity	0.8879	0.5556
precision	0.9322	0.75
f1_score	0.9553	0.7412