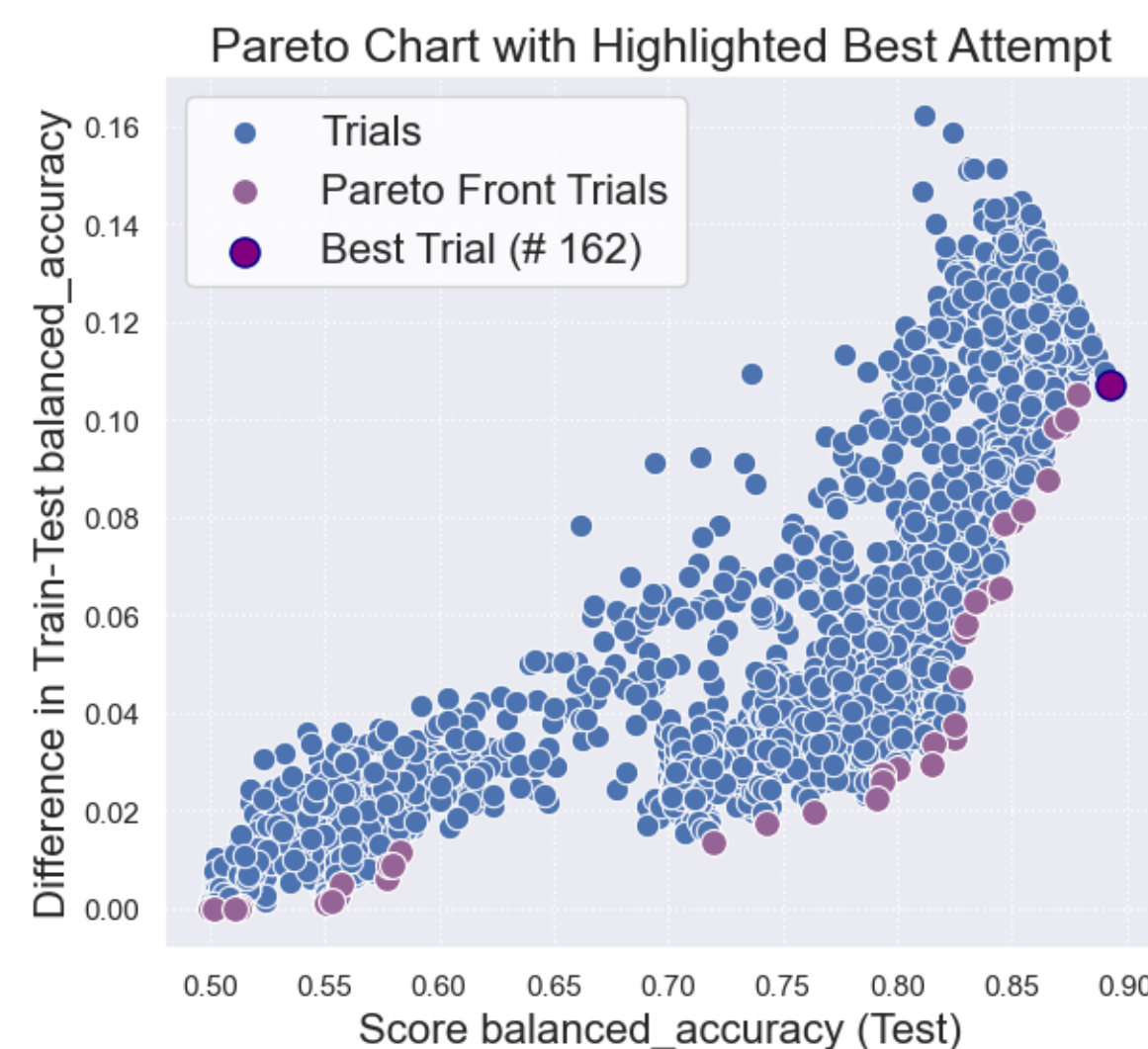
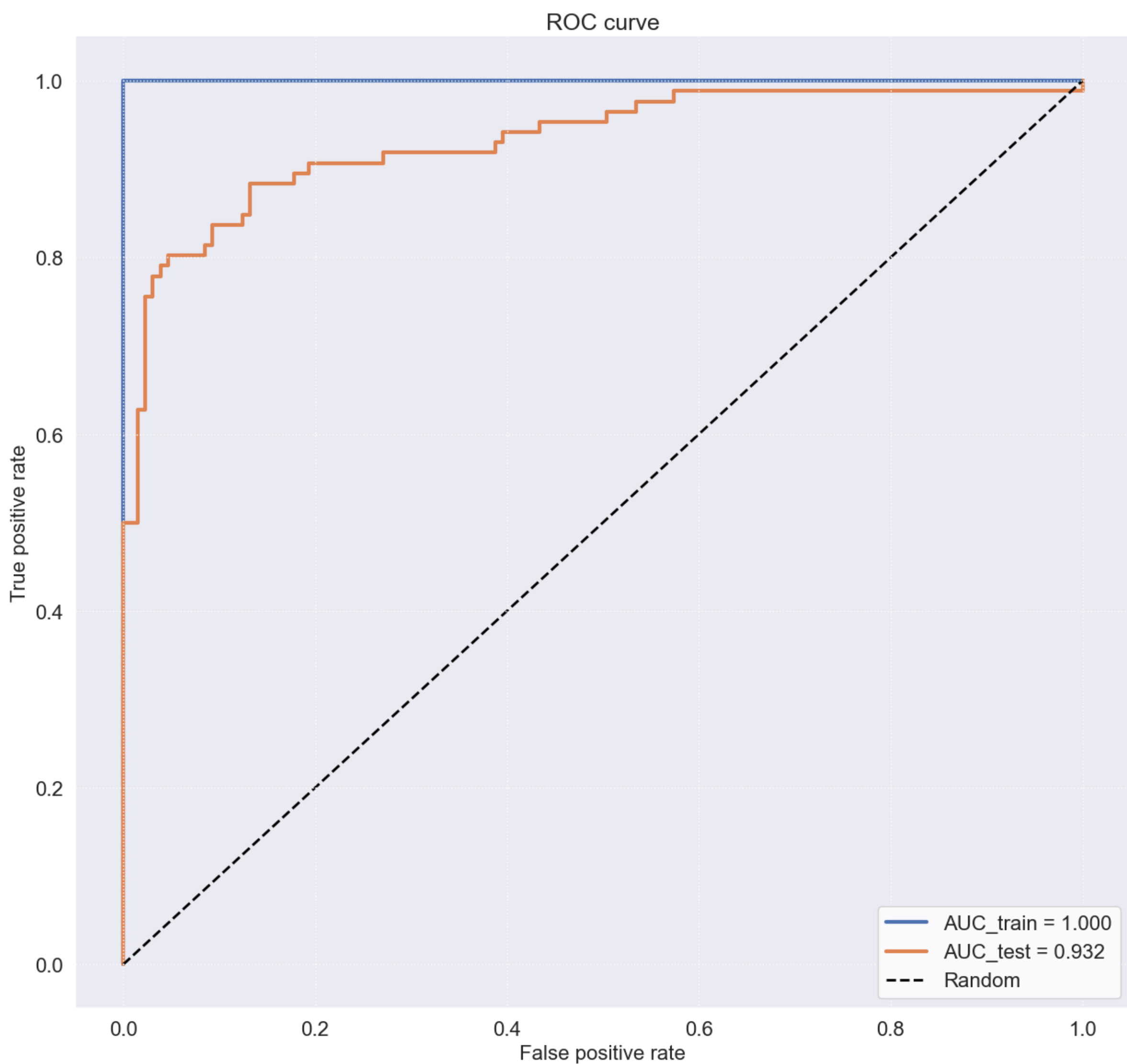
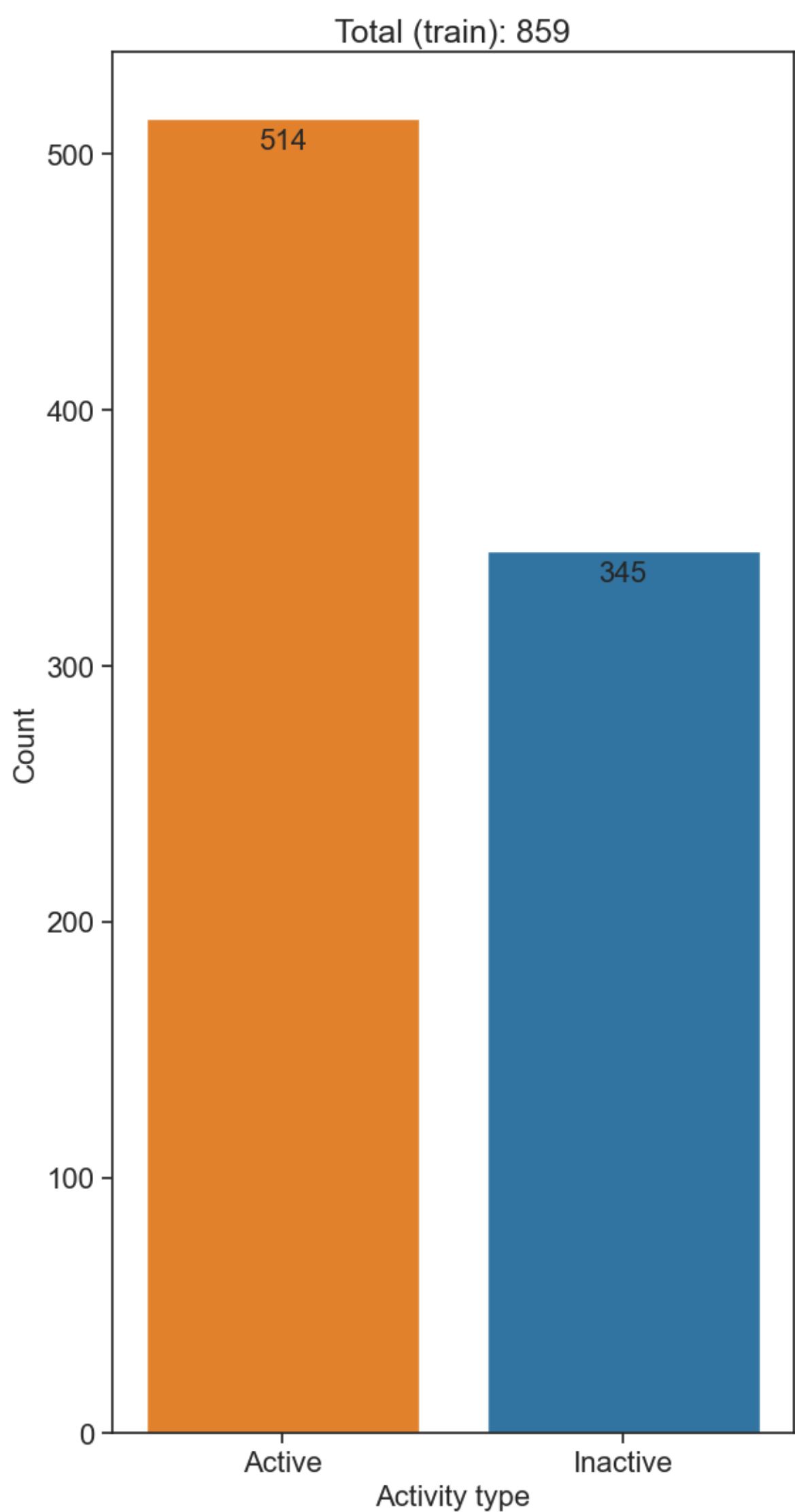
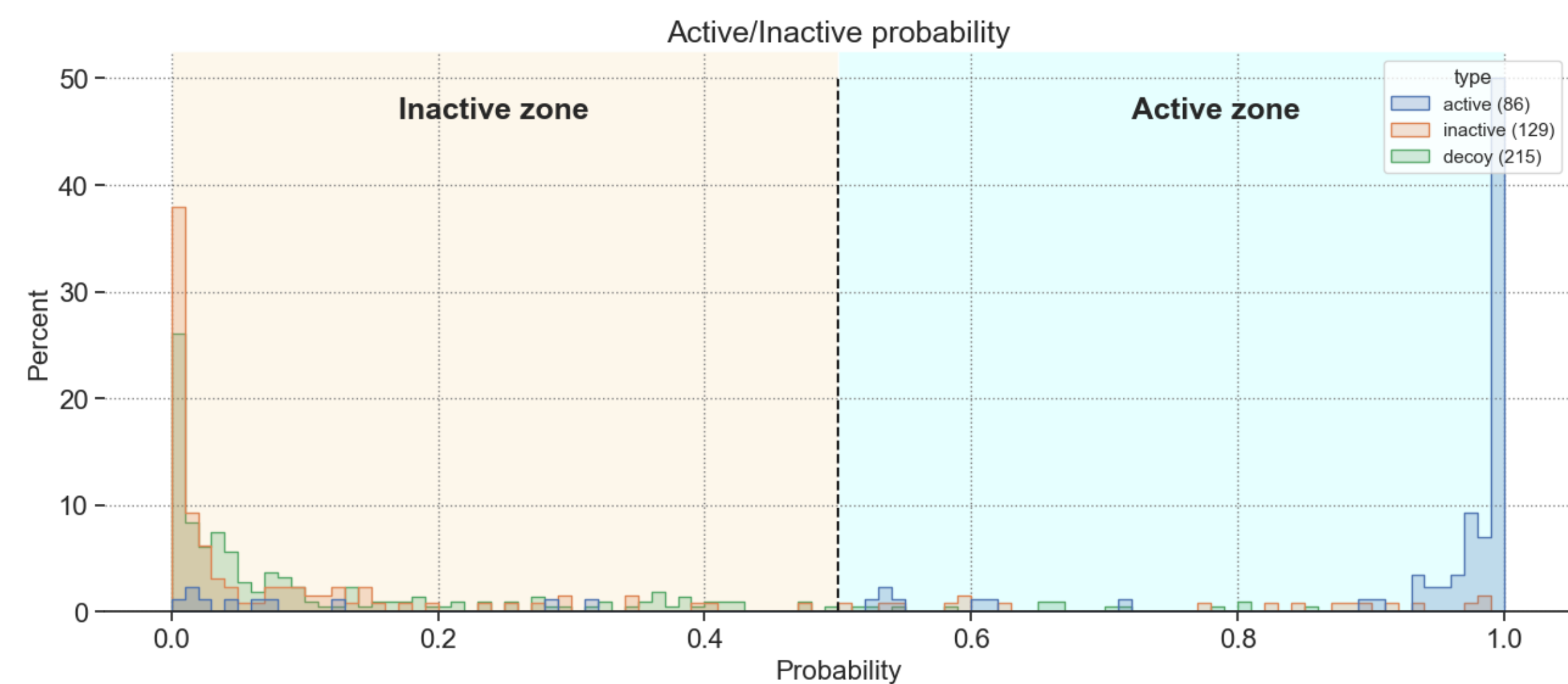
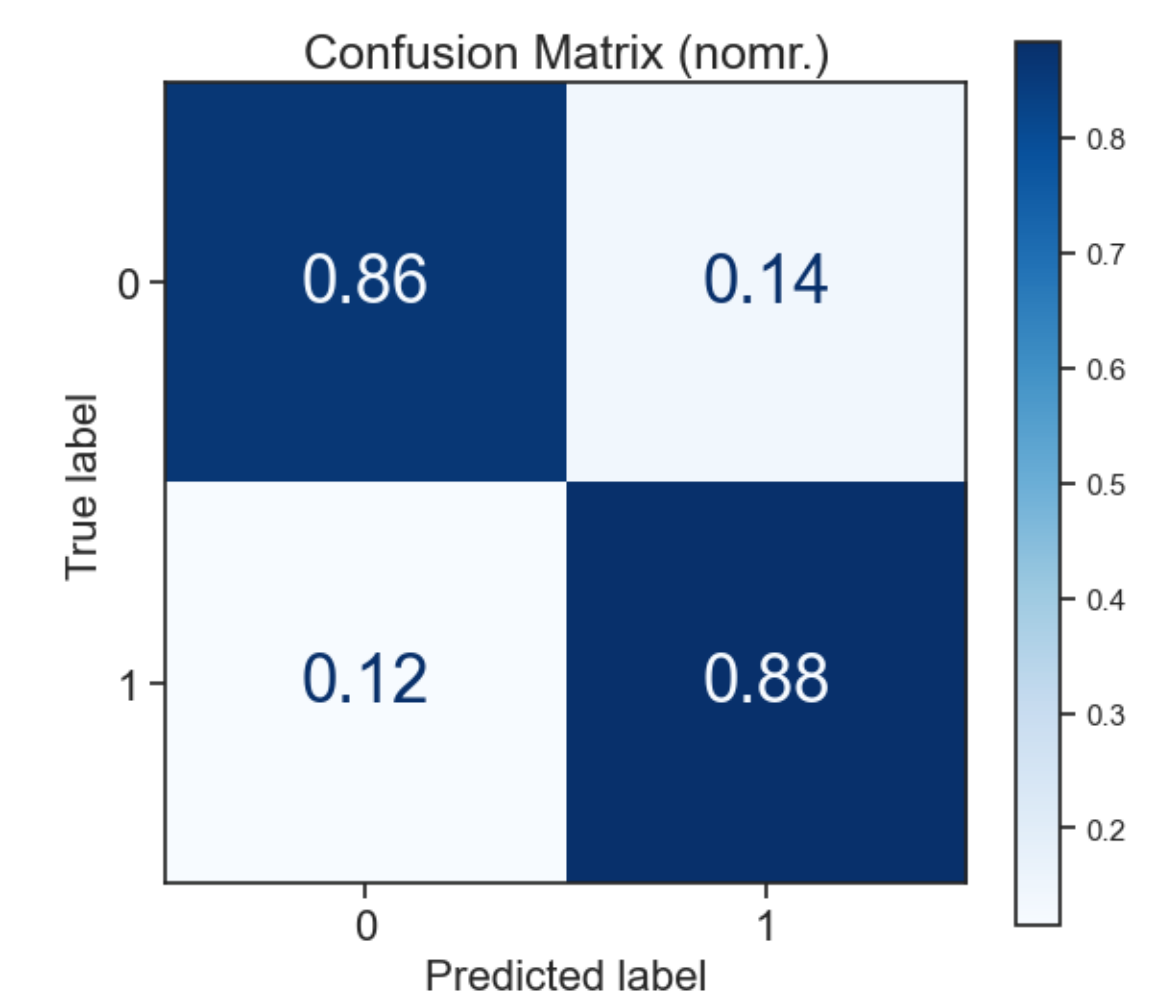
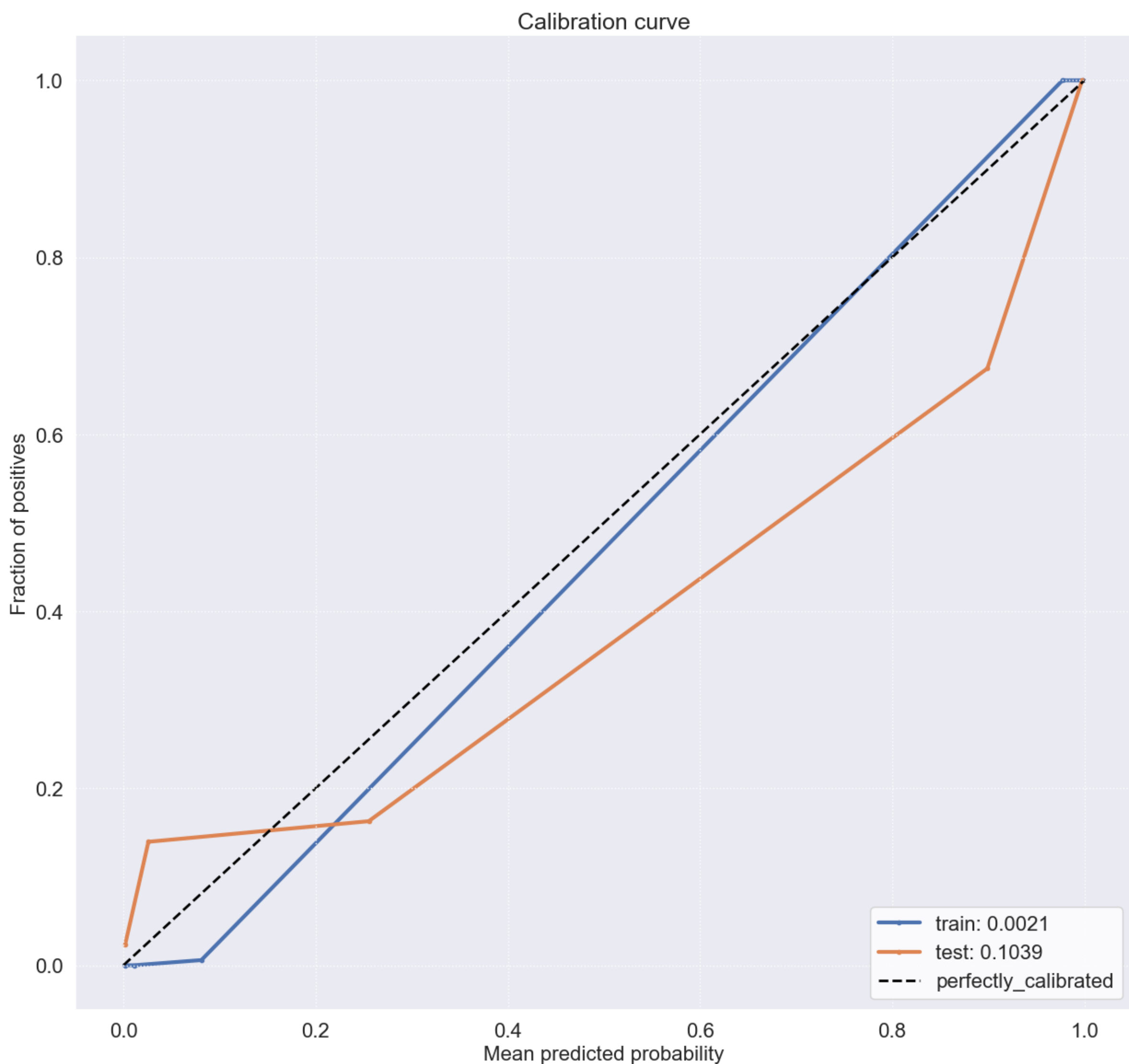
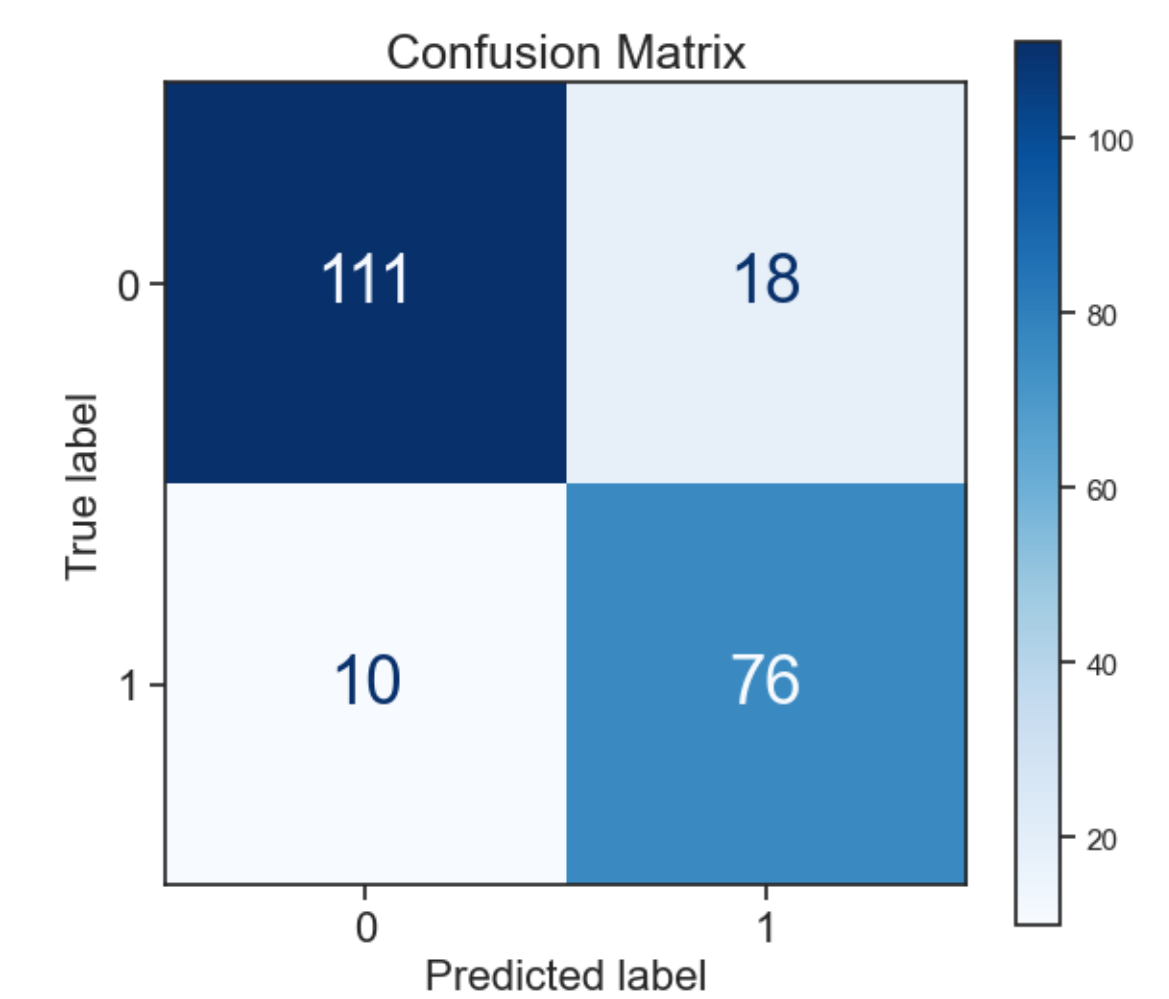


Protein: P09619 - metric: balanced_accuracy

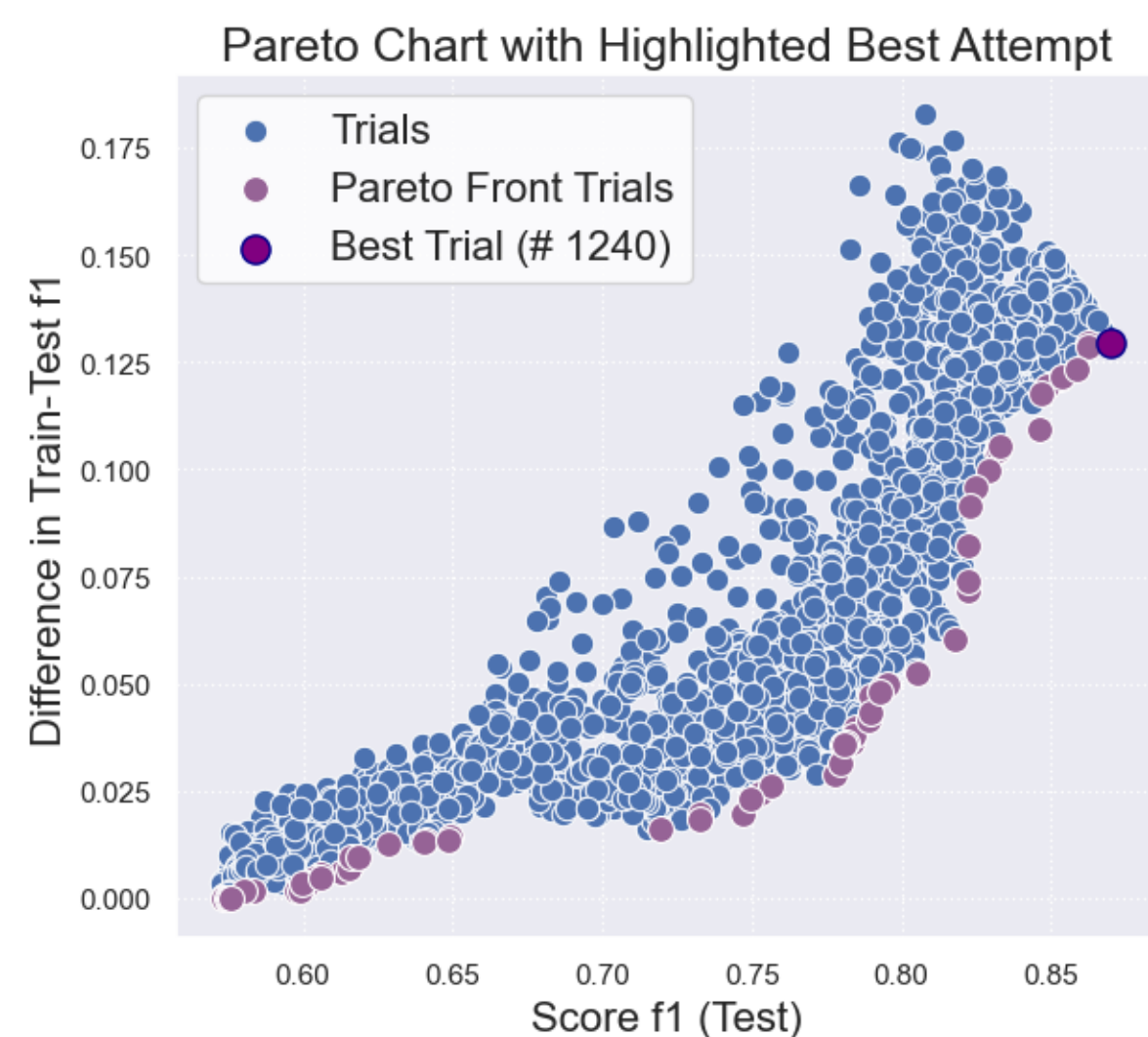
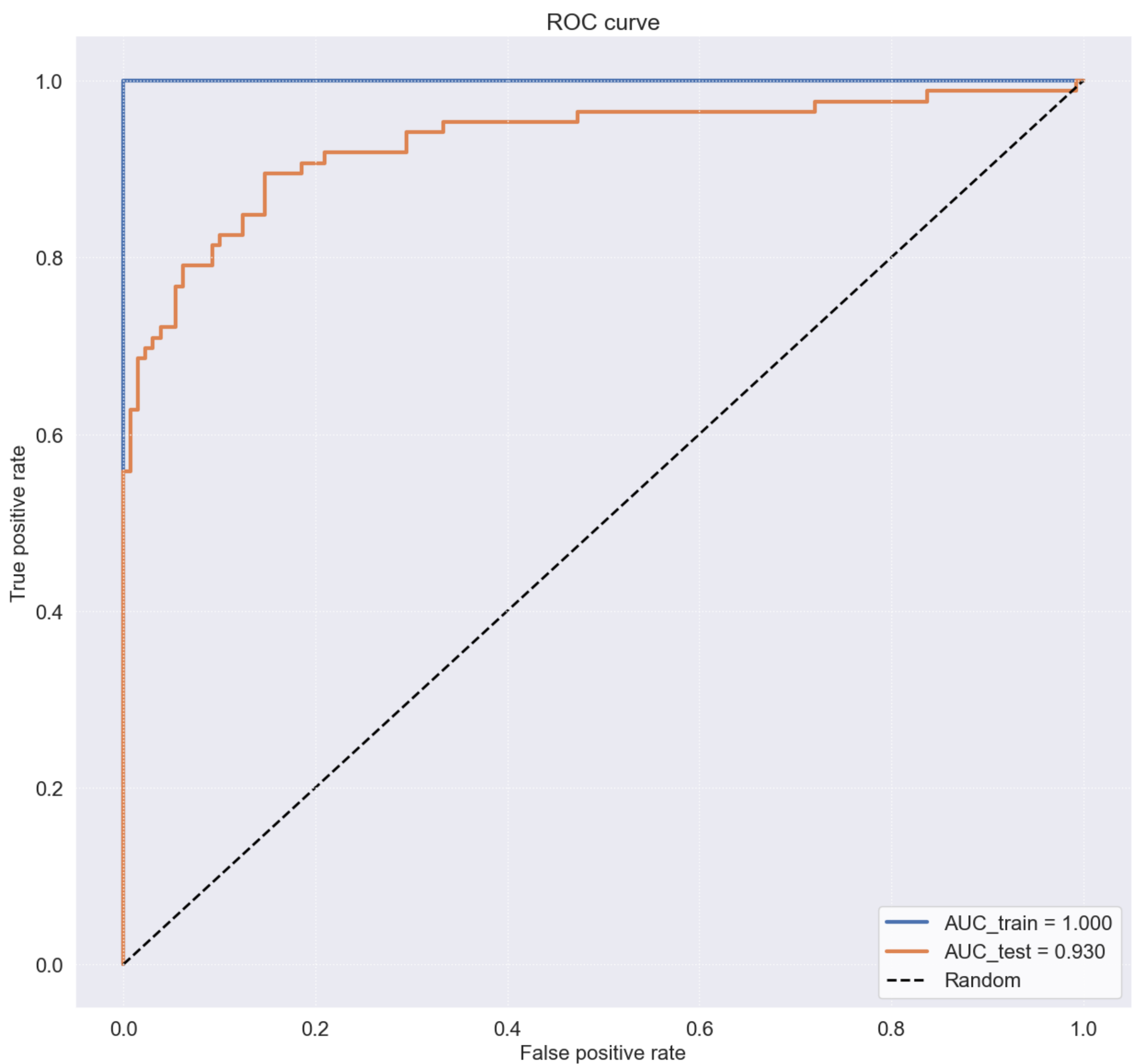
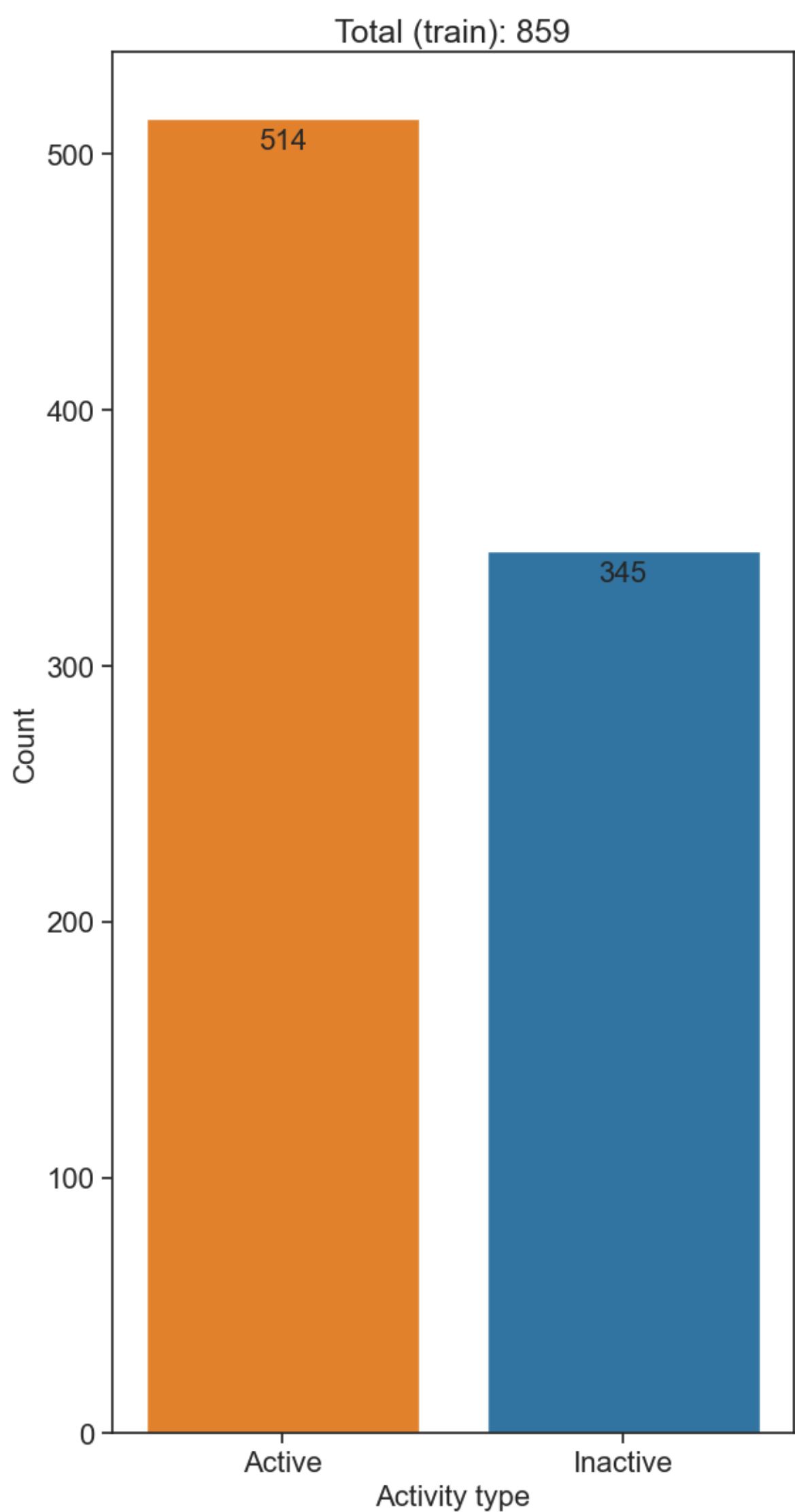


XGBoost Parameters	Value
alpha	1.5916
colsample_bytree	0.526
gamma	0.2089
lambda	4.628
learning_rate	0.2471
max_depth	6.0
min_child_weight	1.0
n_estimators	631.0
reg_alpha	0.2192
reg_lambda	0.9673
scale_pos_weight	3.4603
subsample	0.5835

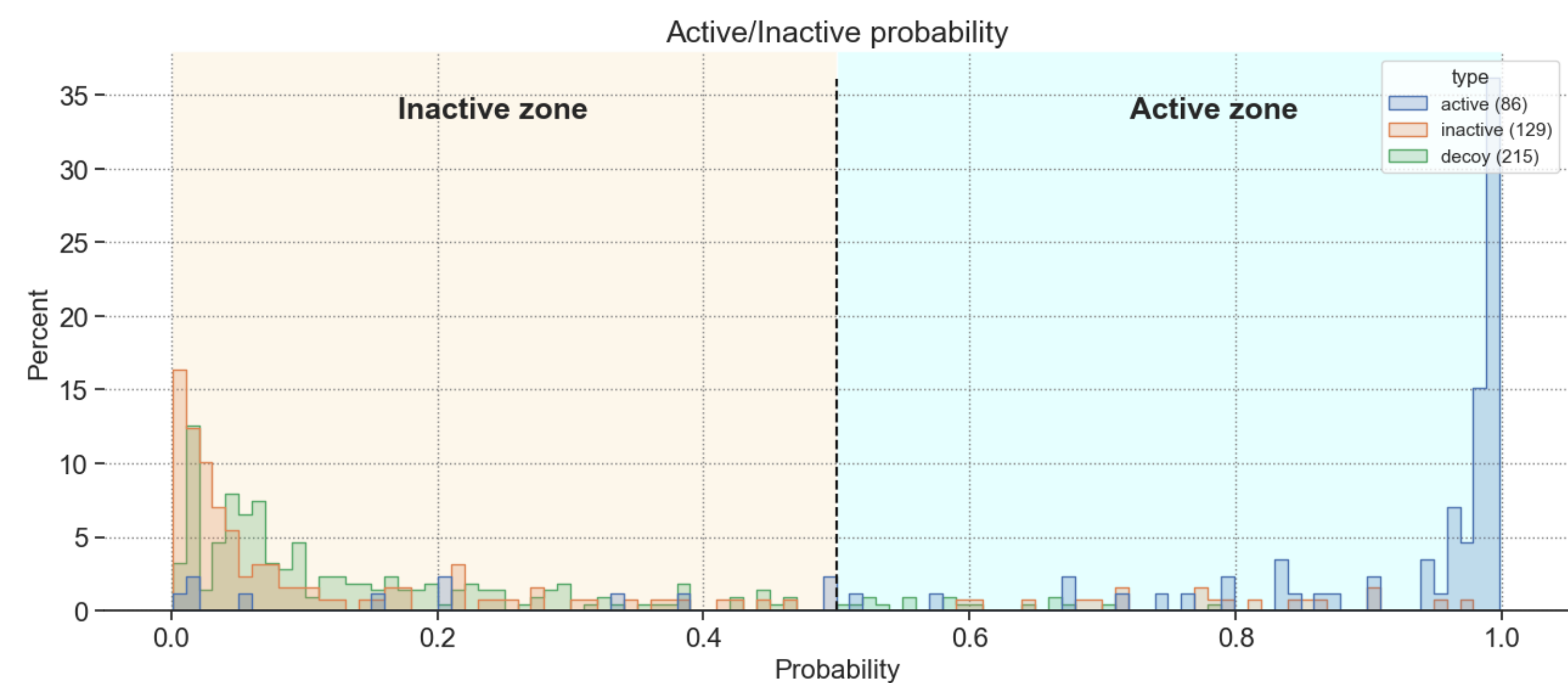
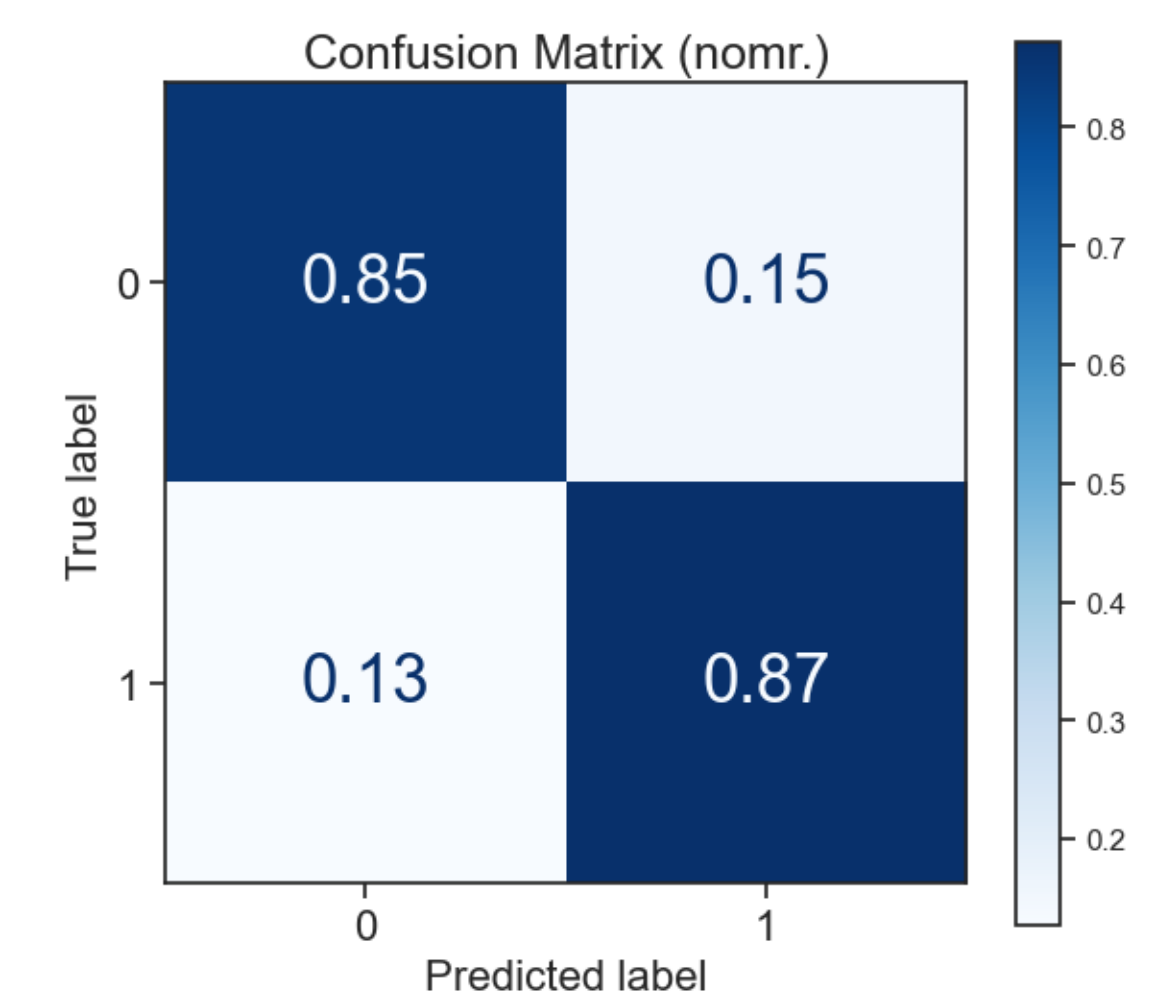
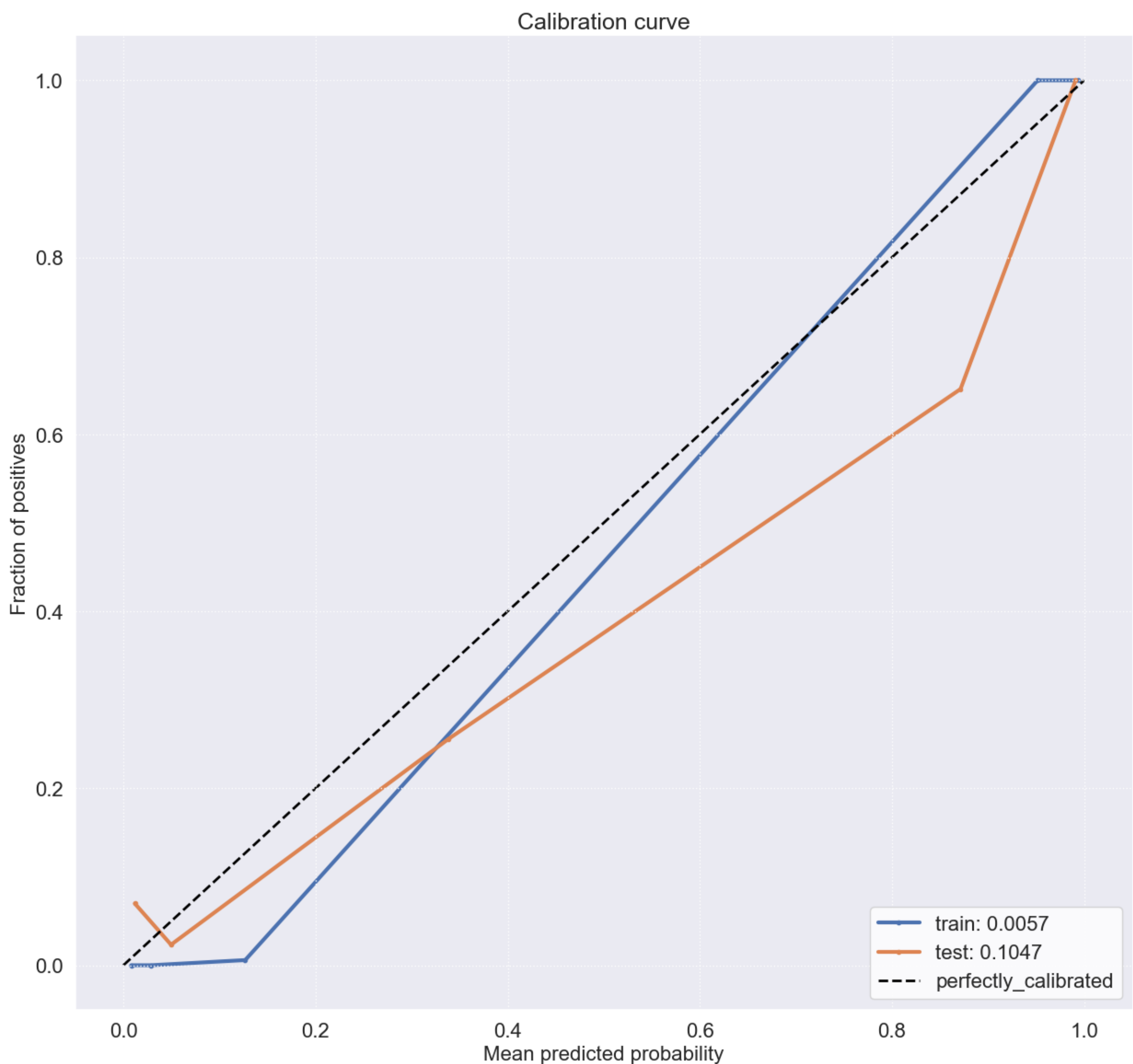
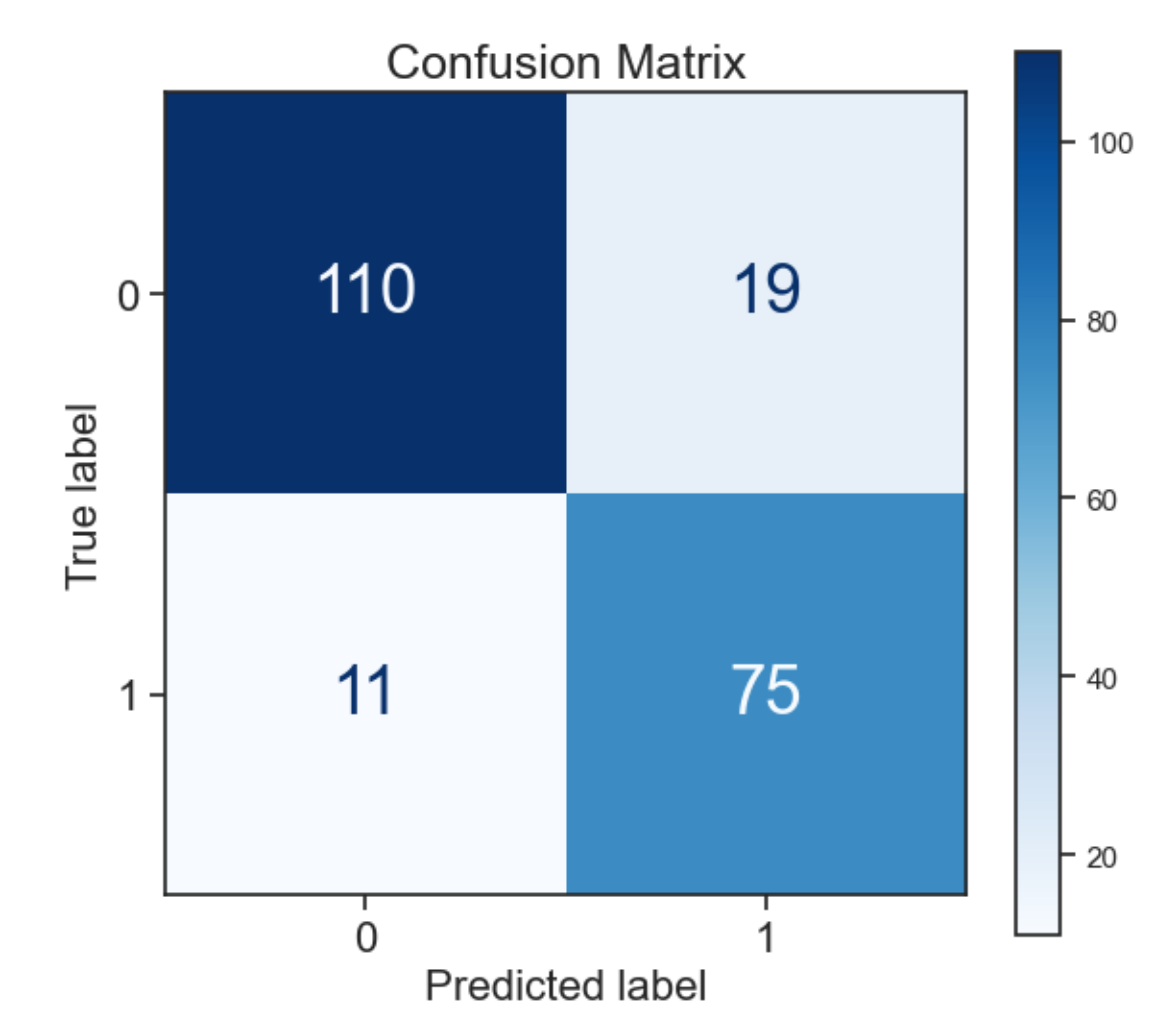


Metric	Train	Test
AUC	1.0	0.9321
accuracy	1.0	0.8698
balanced accuracy	1.0	0.8721
recall_(sens)	1.0	0.8837
specificity	1.0	0.8605
precision	1.0	0.8085
f1_score	1.0	0.8706

Protein: P09619 - metric: f1

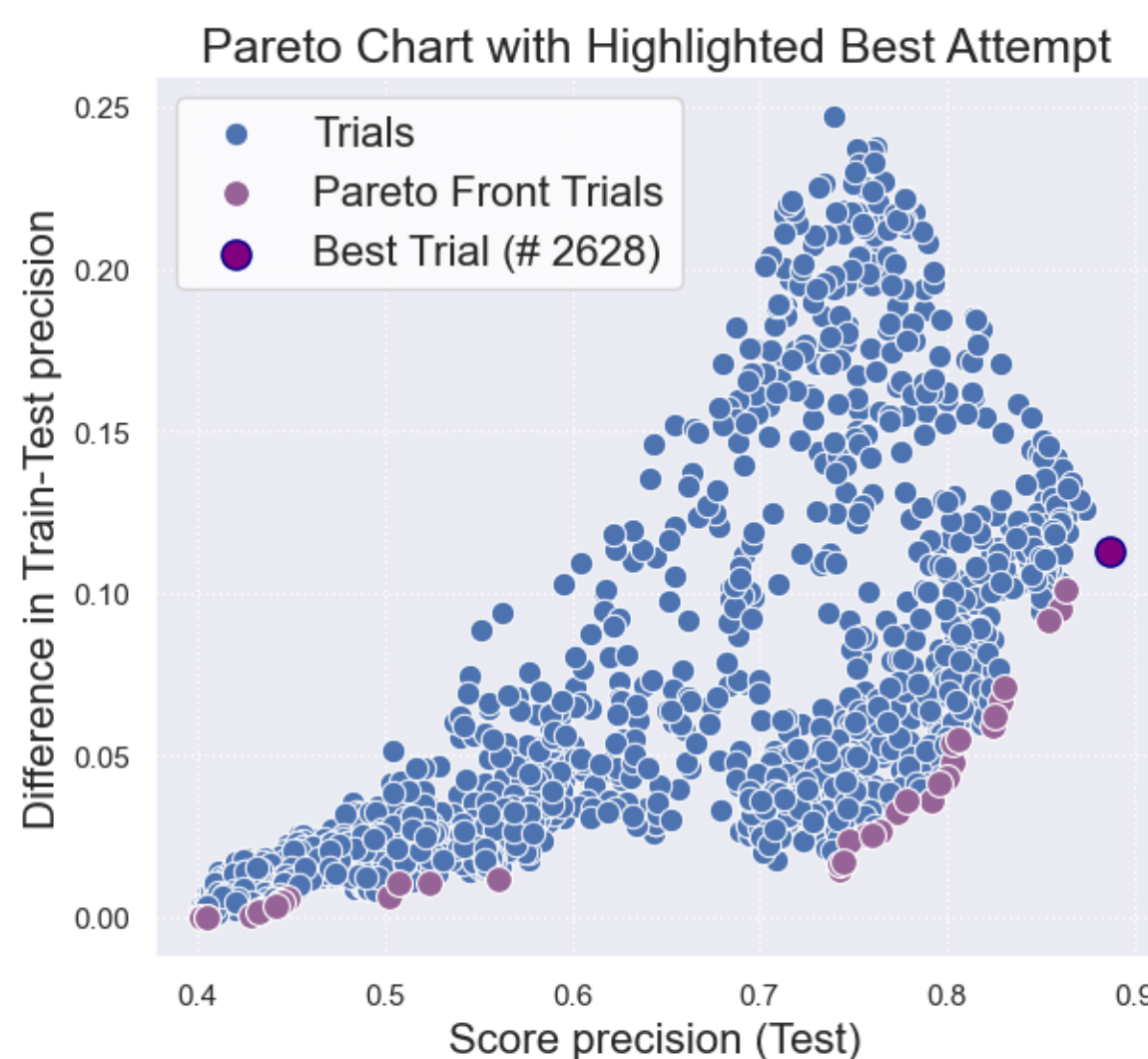
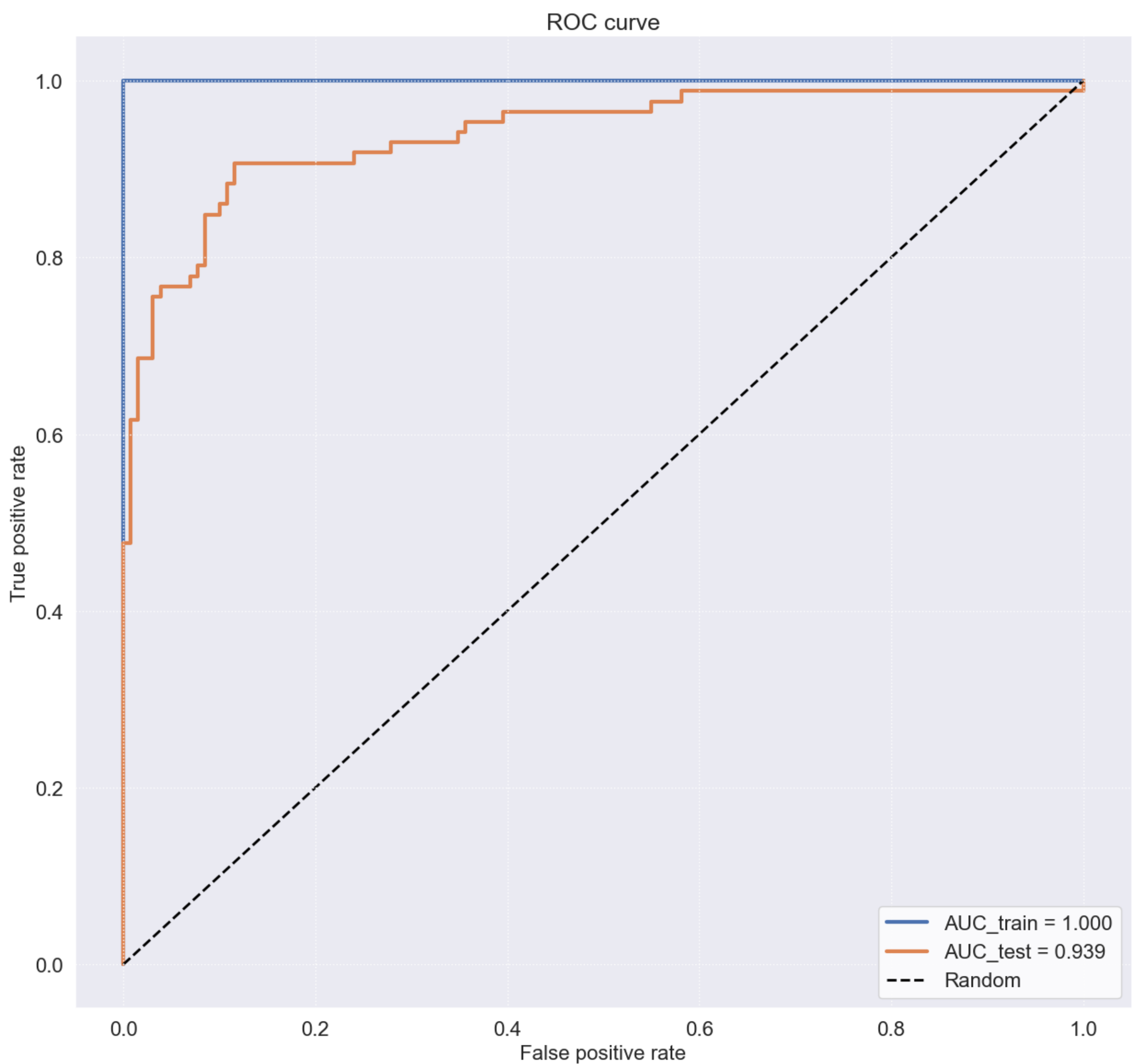
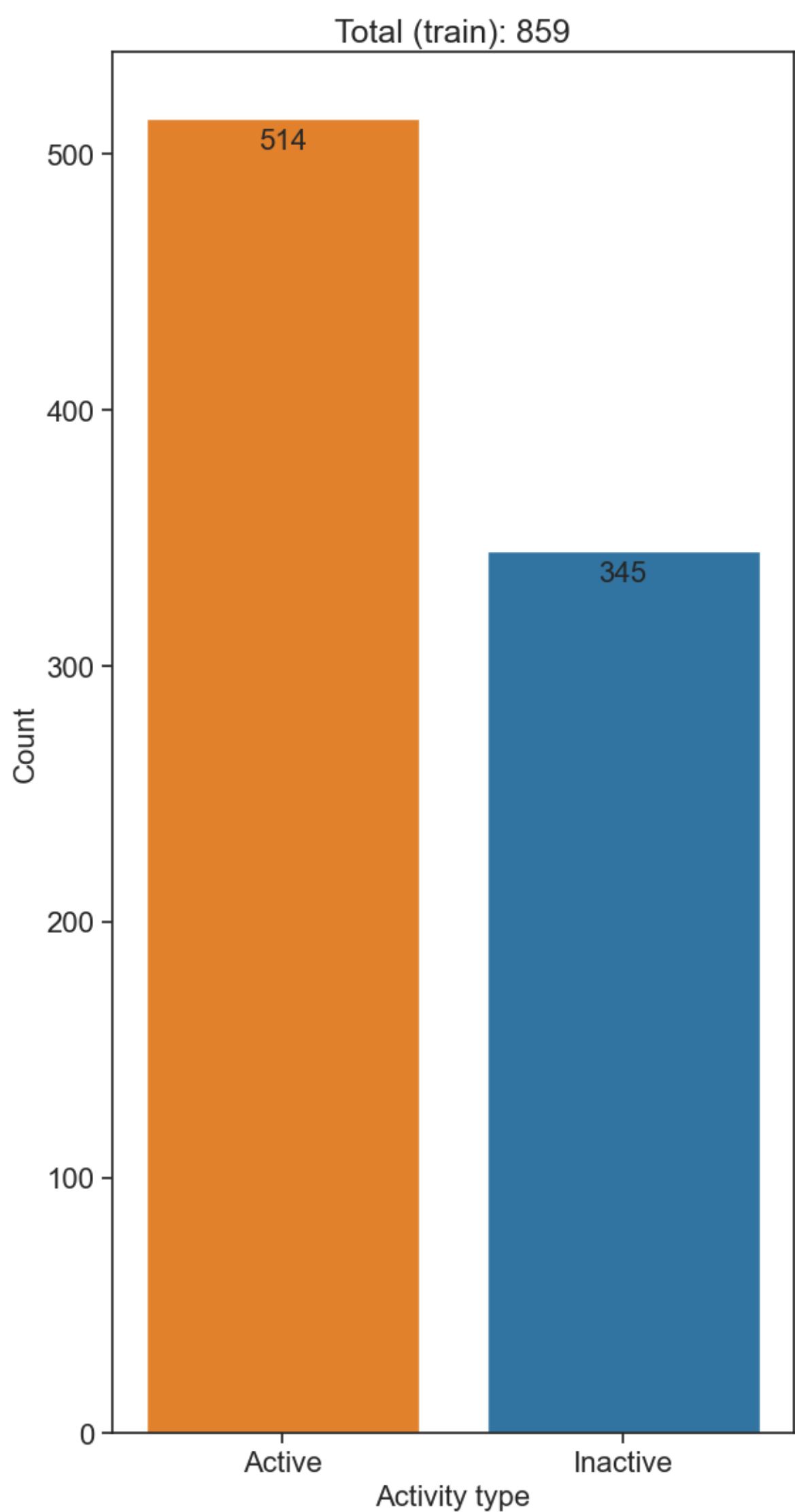


XGBoost Parameters	Value
alpha	1.9227
colsample_bytree	0.7857
gamma	0.2252
lambda	2.0426
learning_rate	0.0312
max_depth	9.0
min_child_weight	1.0
n_estimators	660.0
reg_alpha	0.395
reg_lambda	0.6874
scale_pos_weight	2.843
subsample	0.8562

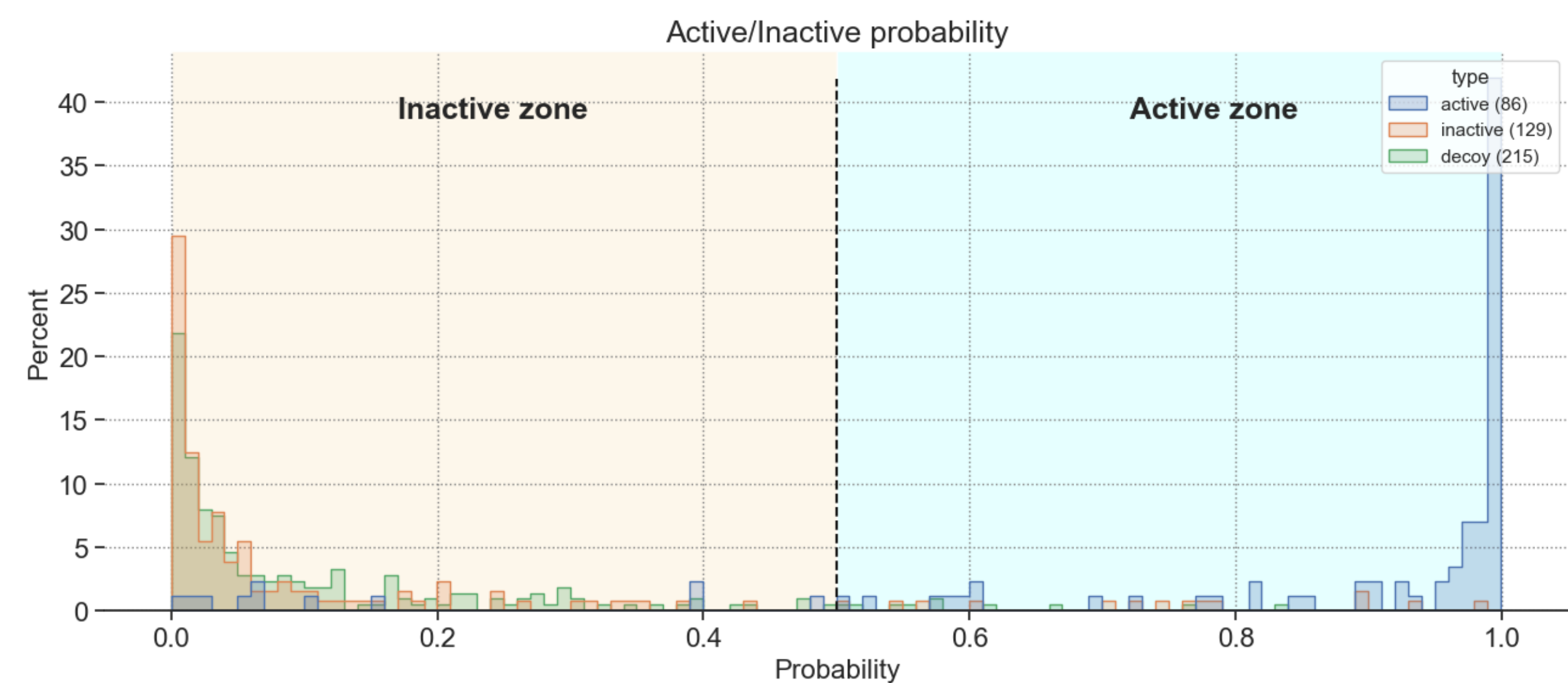
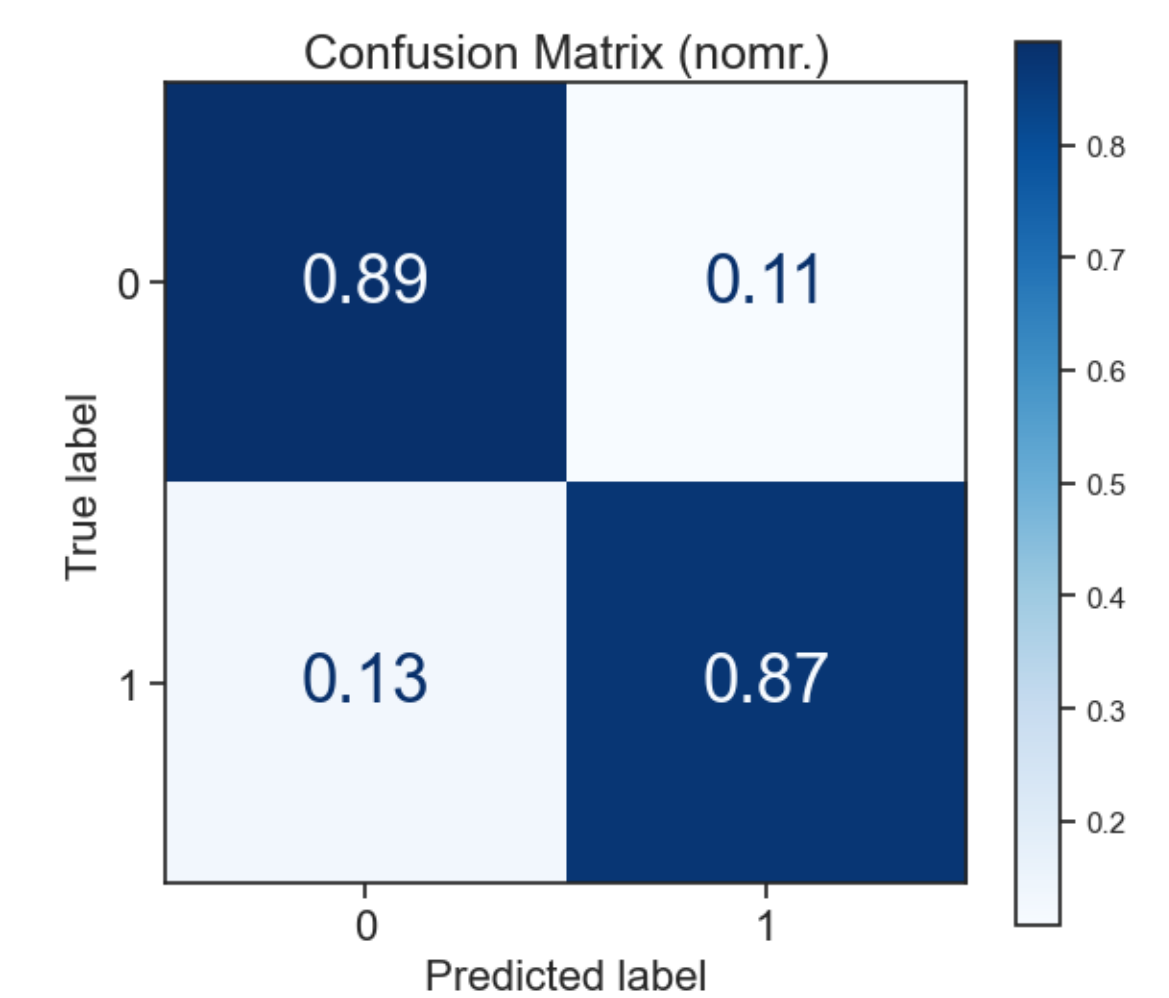
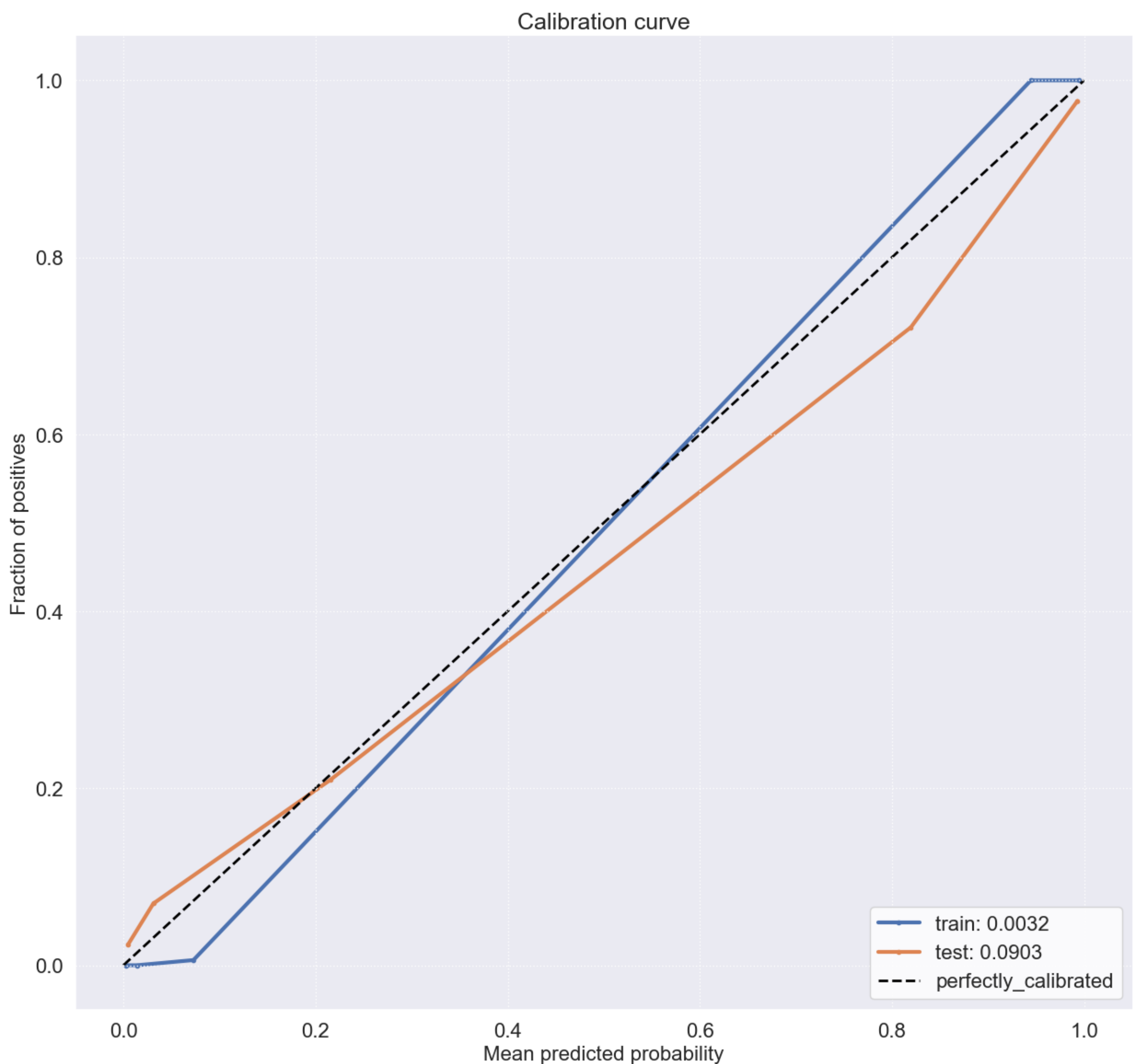
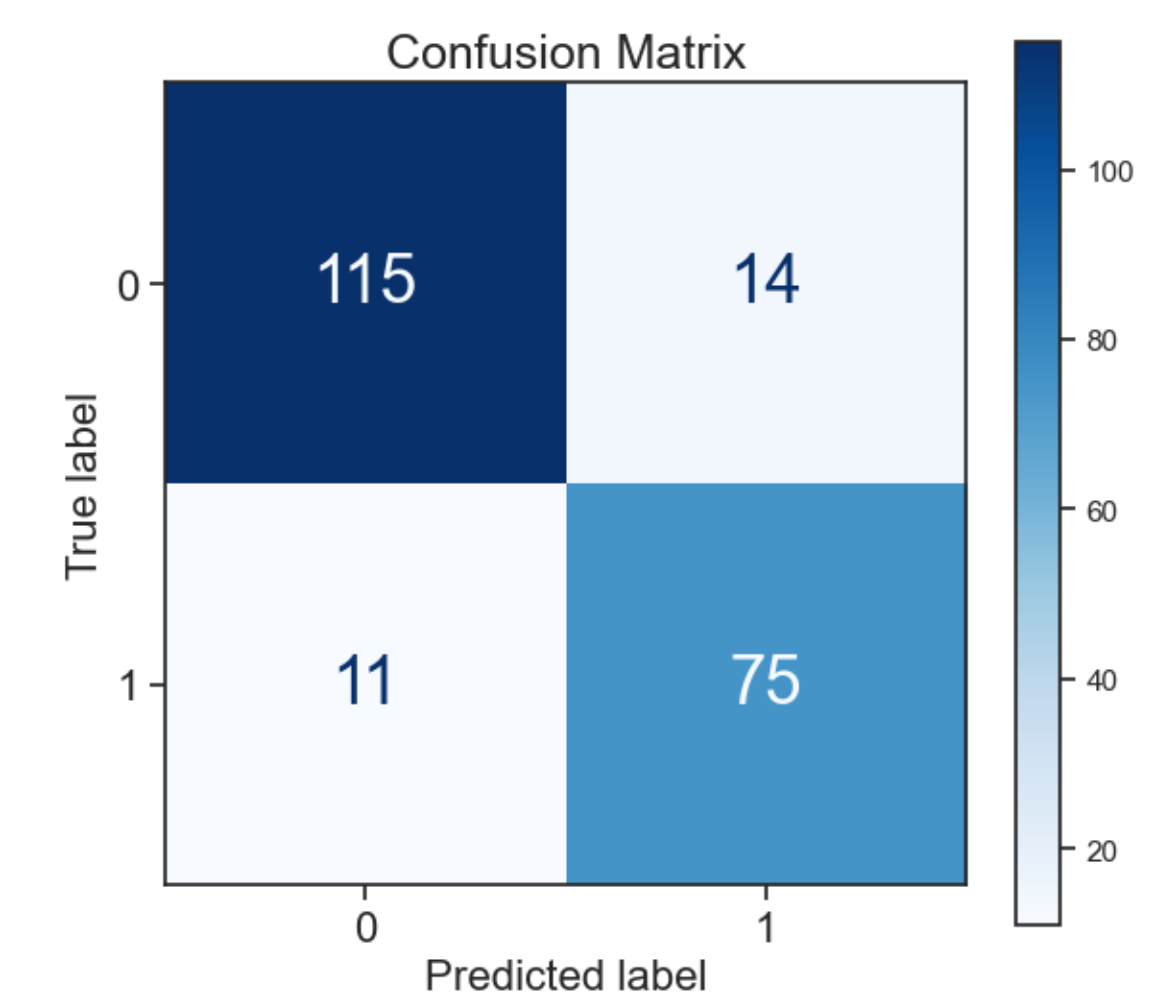


Metric	Train	Test
AUC	1.0	0.93
accuracy	1.0	0.8605
balanced accuracy	1.0	0.8624
recall_(sens)	1.0	0.8721
specificity	1.0	0.8527
precision	1.0	0.7979
f1_score	1.0	0.8613

Protein: P09619 - metric: precision

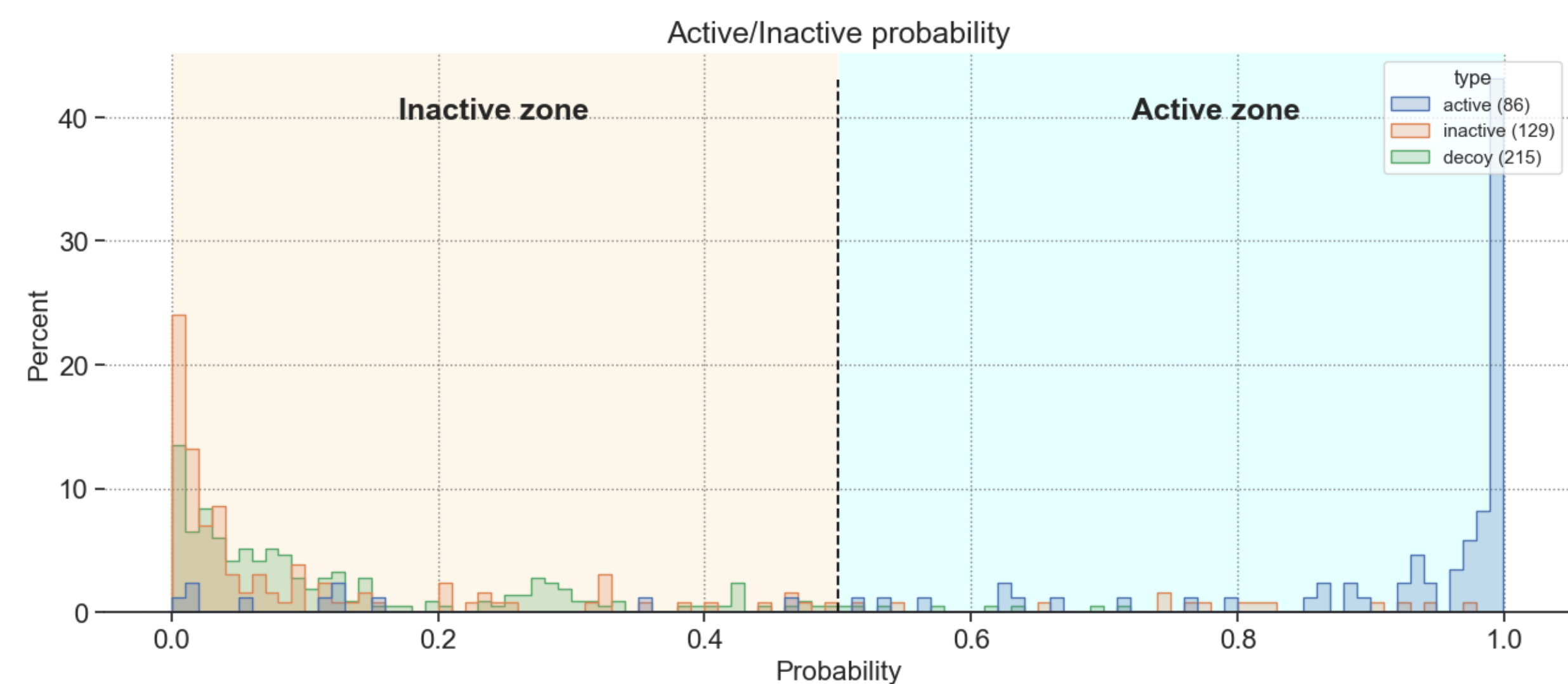
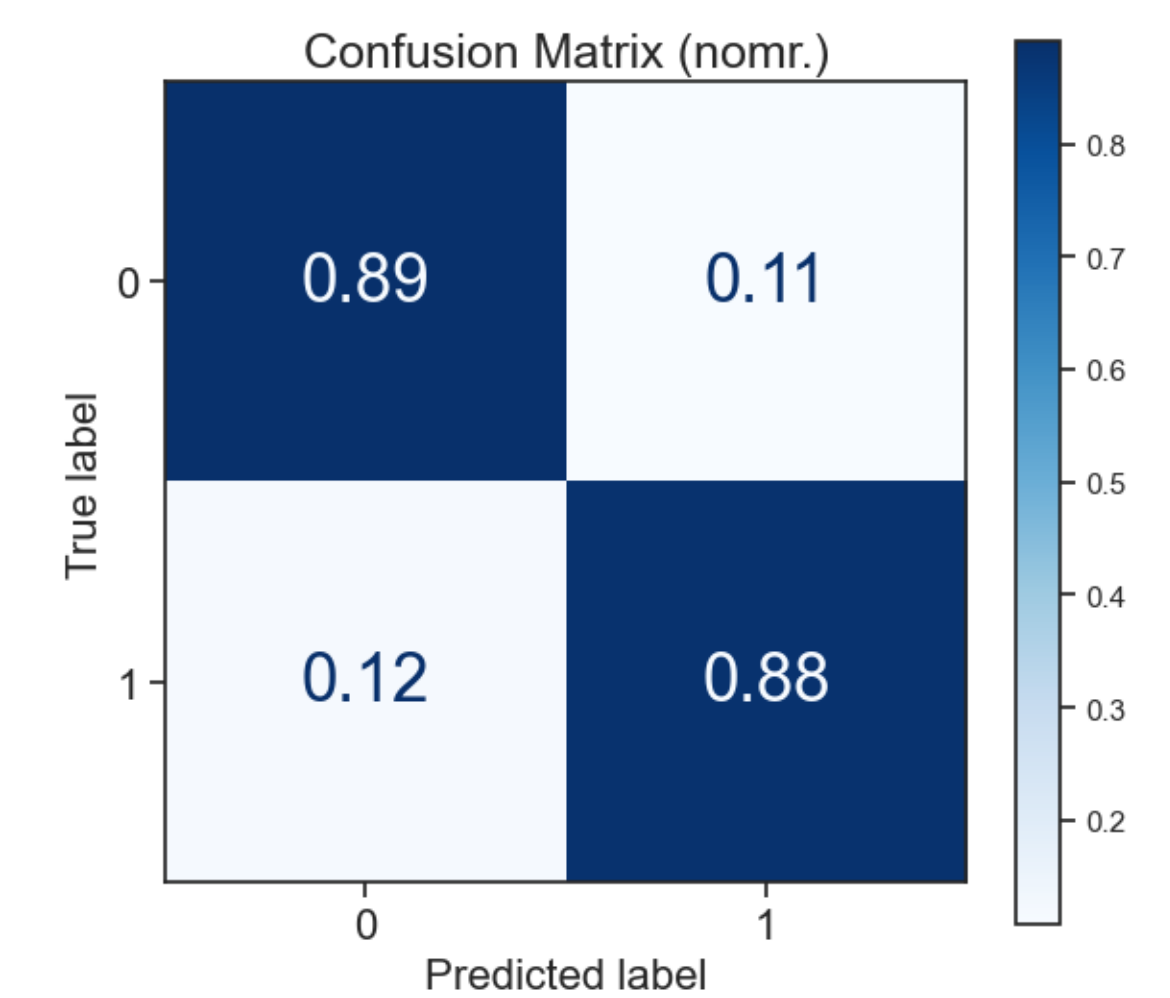
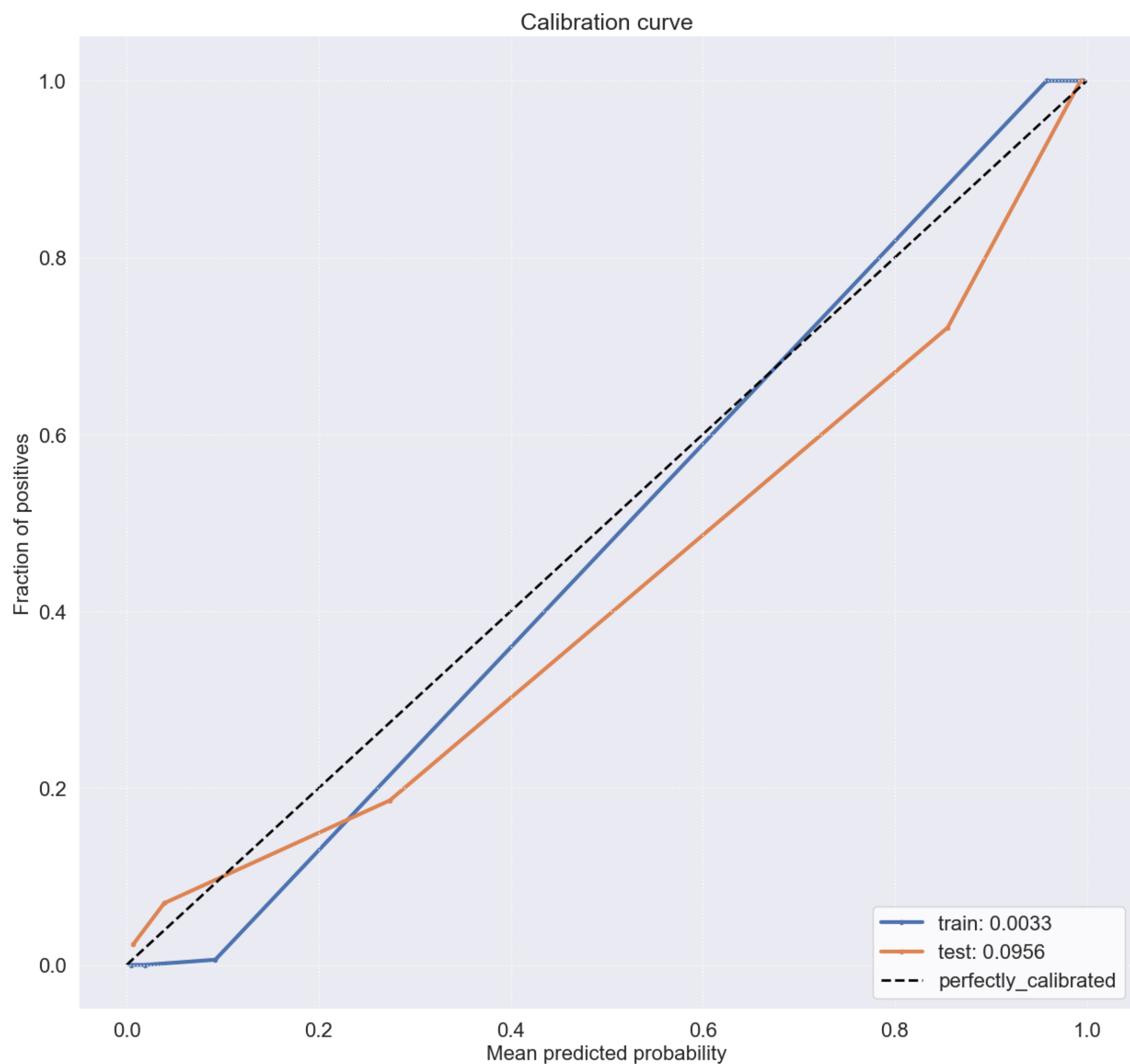
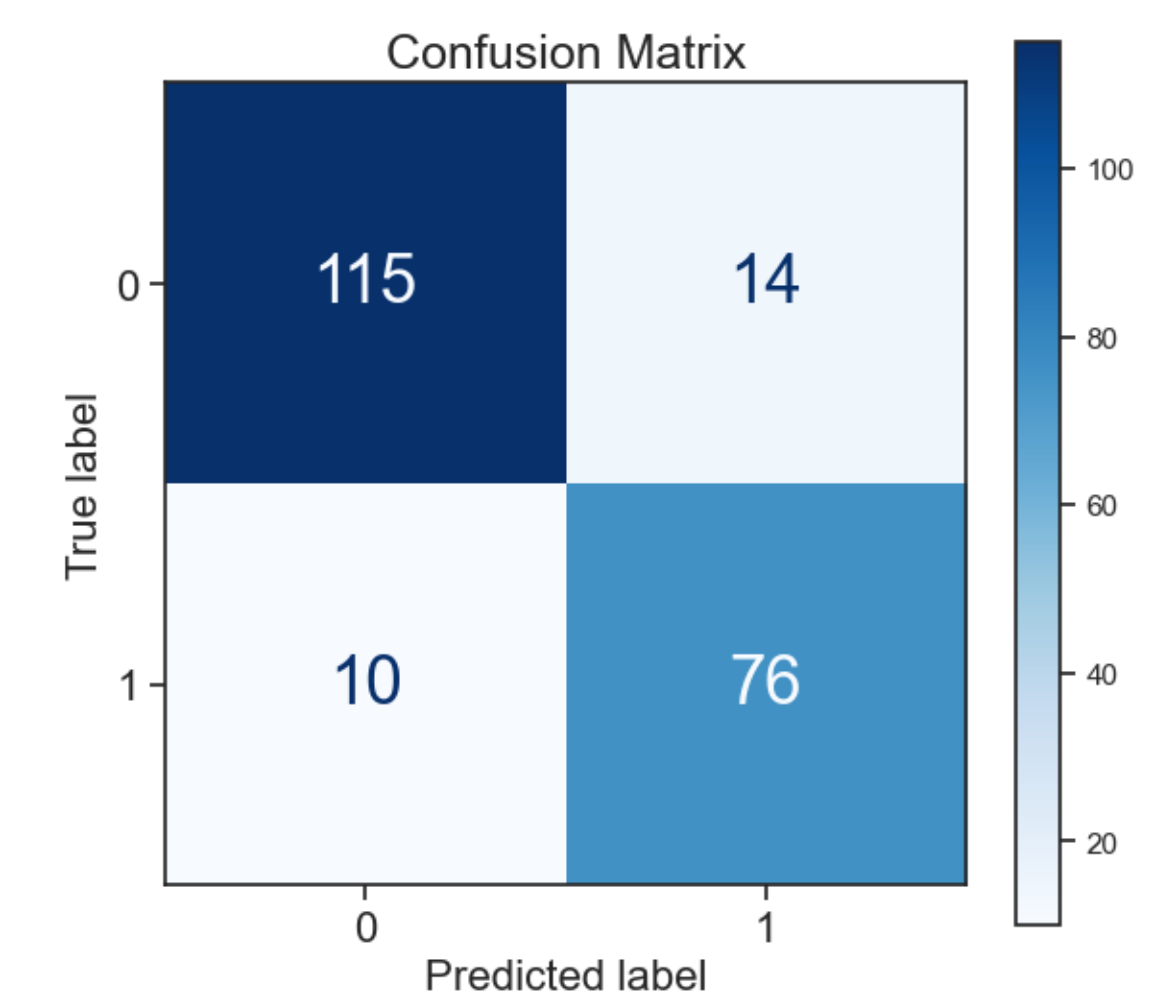
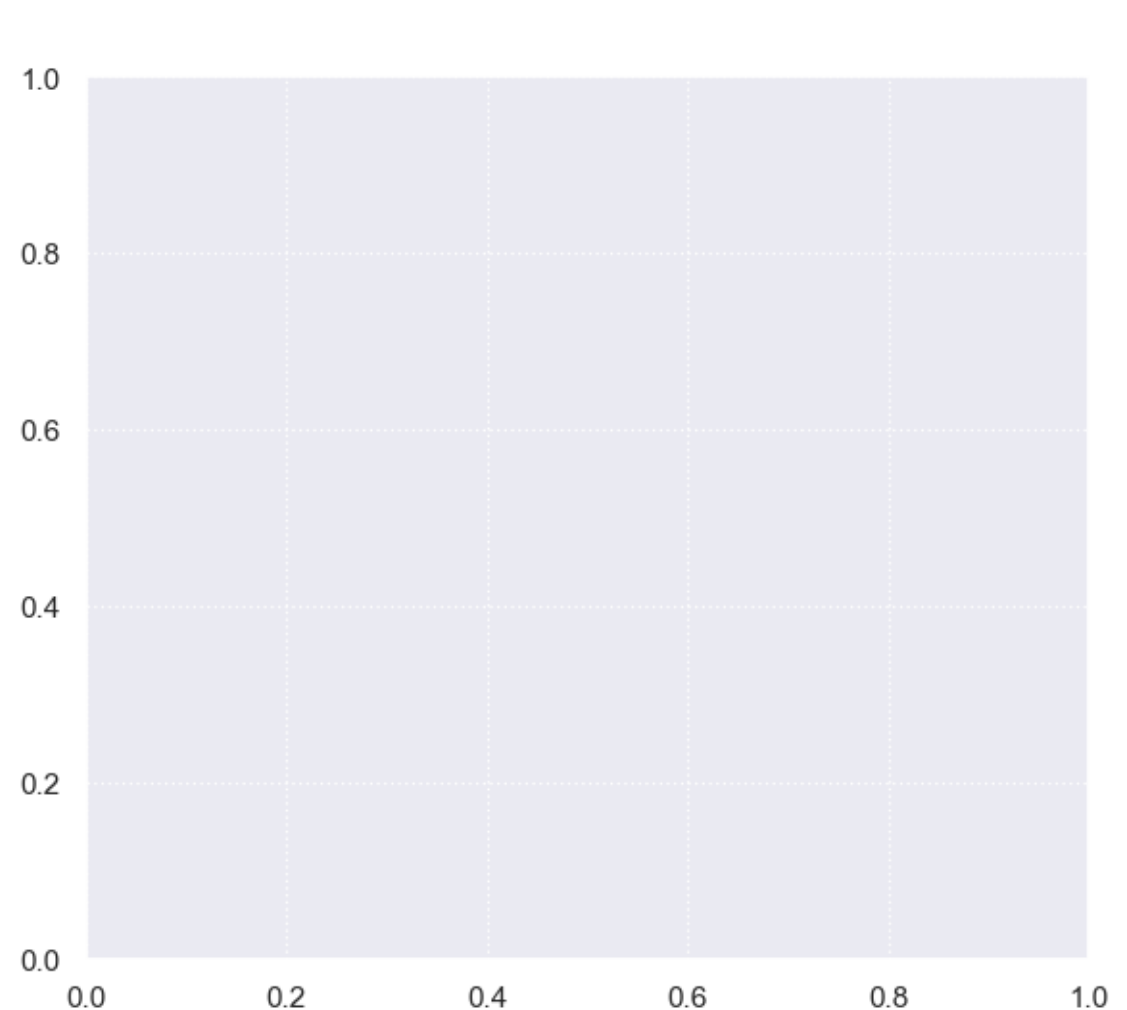
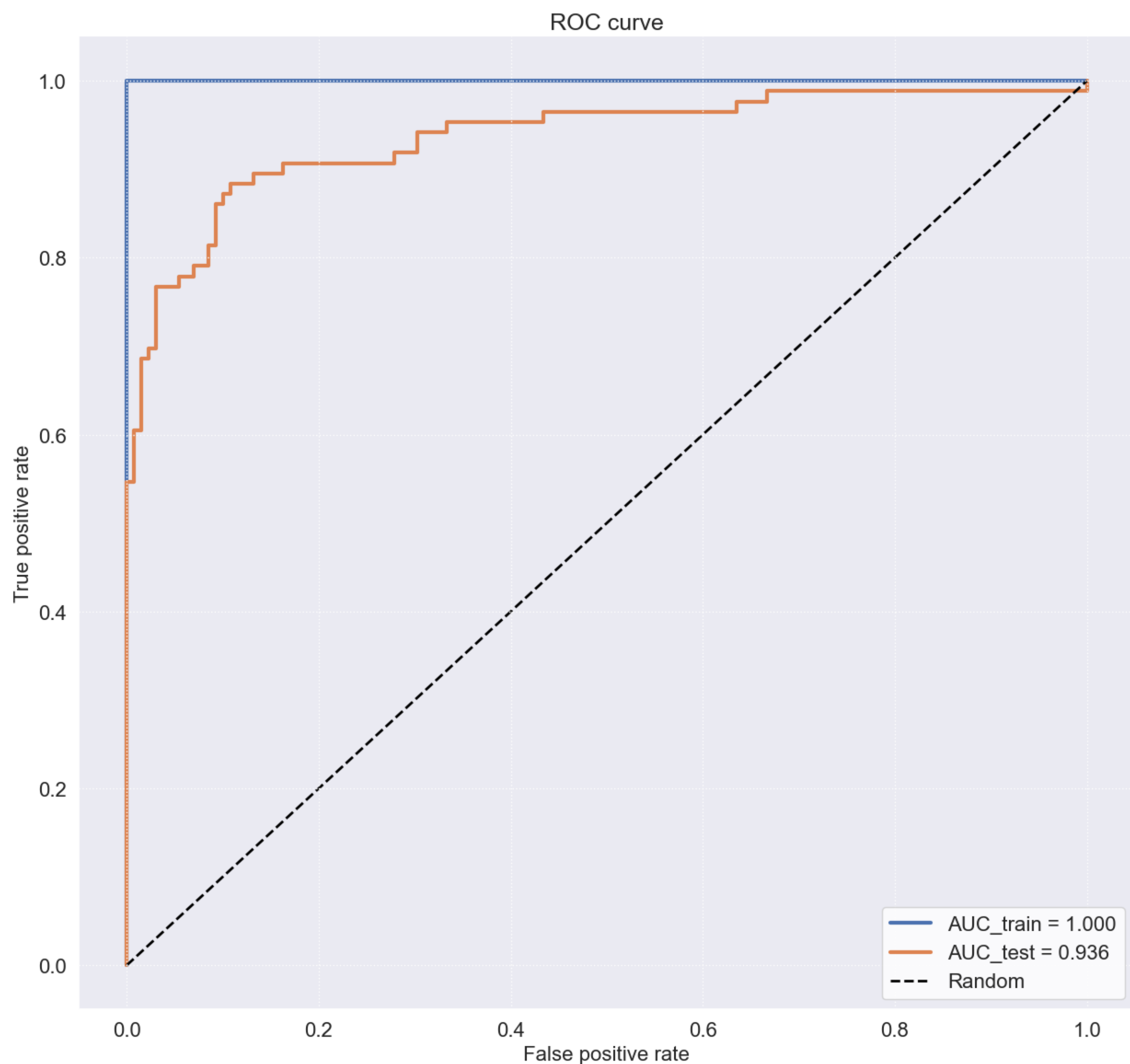
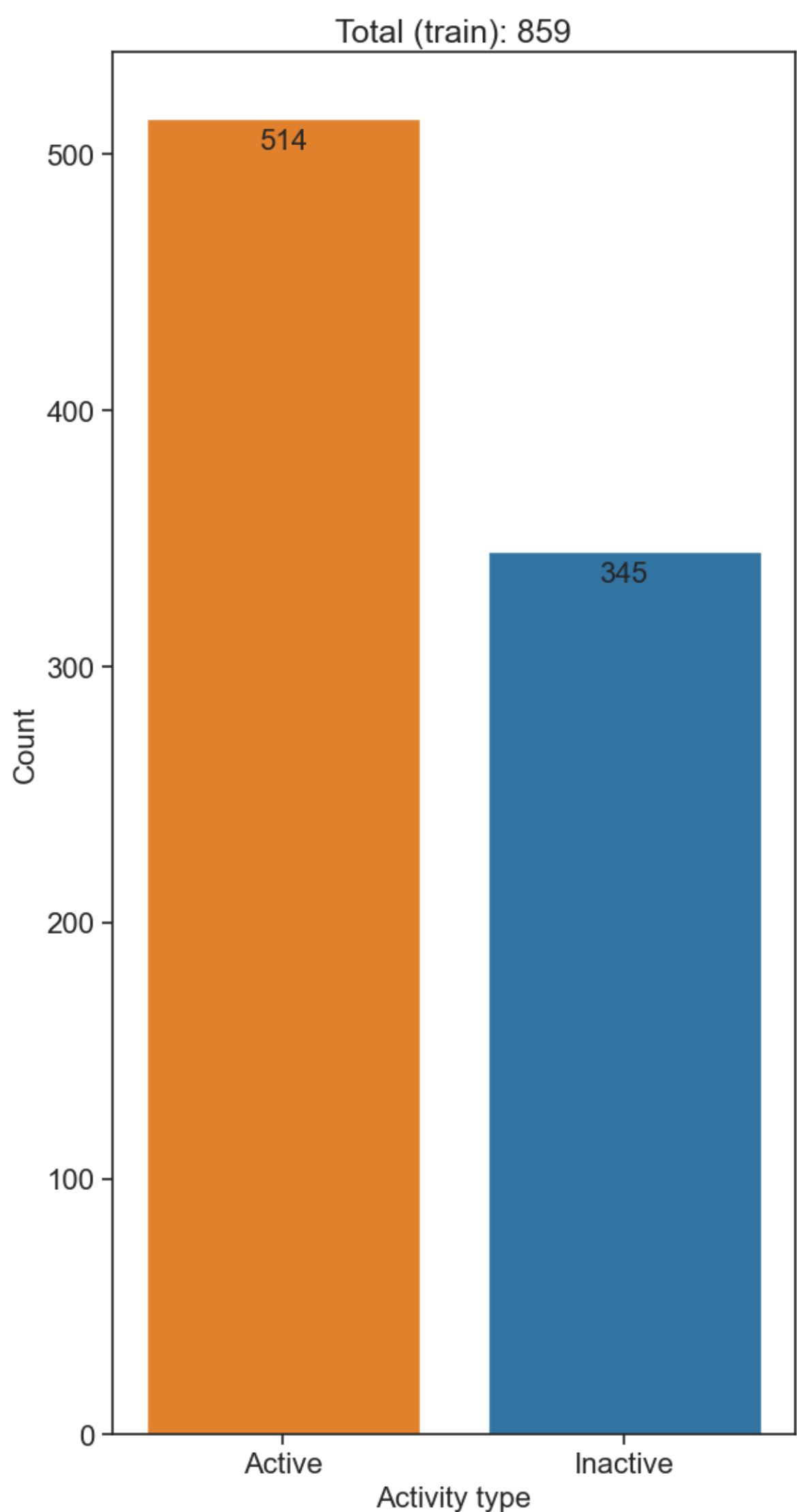


XGBoost Parameters	Value
alpha	1.3845
colsample_bytree	0.9985
gamma	0.1315
lambda	1.9582
learning_rate	0.1188
max_depth	6.0
min_child_weight	1.0
n_estimators	503.0
reg_alpha	0.3219
reg_lambda	0.7959
scale_pos_weight	1.3947
subsample	0.691



Metric	Train	Test
AUC	1.0	0.9385
accuracy	1.0	0.8837
balanced accuracy	1.0	0.8818
recall_(sens)	1.0	0.8721
specificity	1.0	0.8915
precision	1.0	0.8427
f1_score	1.0	0.884

Protein: P09619 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	1.0	0.9363
accuracy	1.0	0.8884
balanced accuracy	1.0	0.8876
recall_(sens)	1.0	0.8837
specificity	1.0	0.8915
precision	1.0	0.8444
f1_score	1.0	0.8888