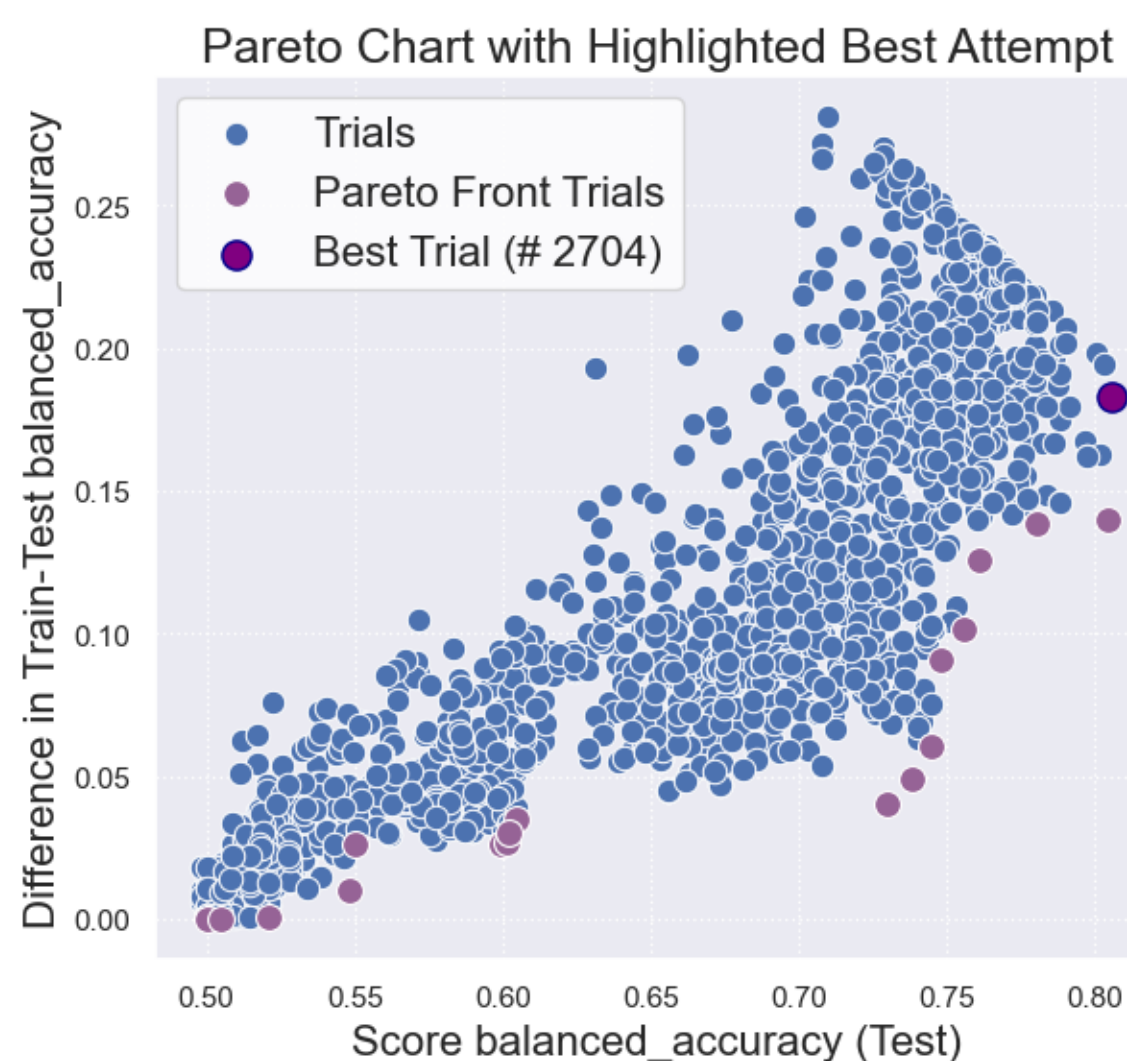
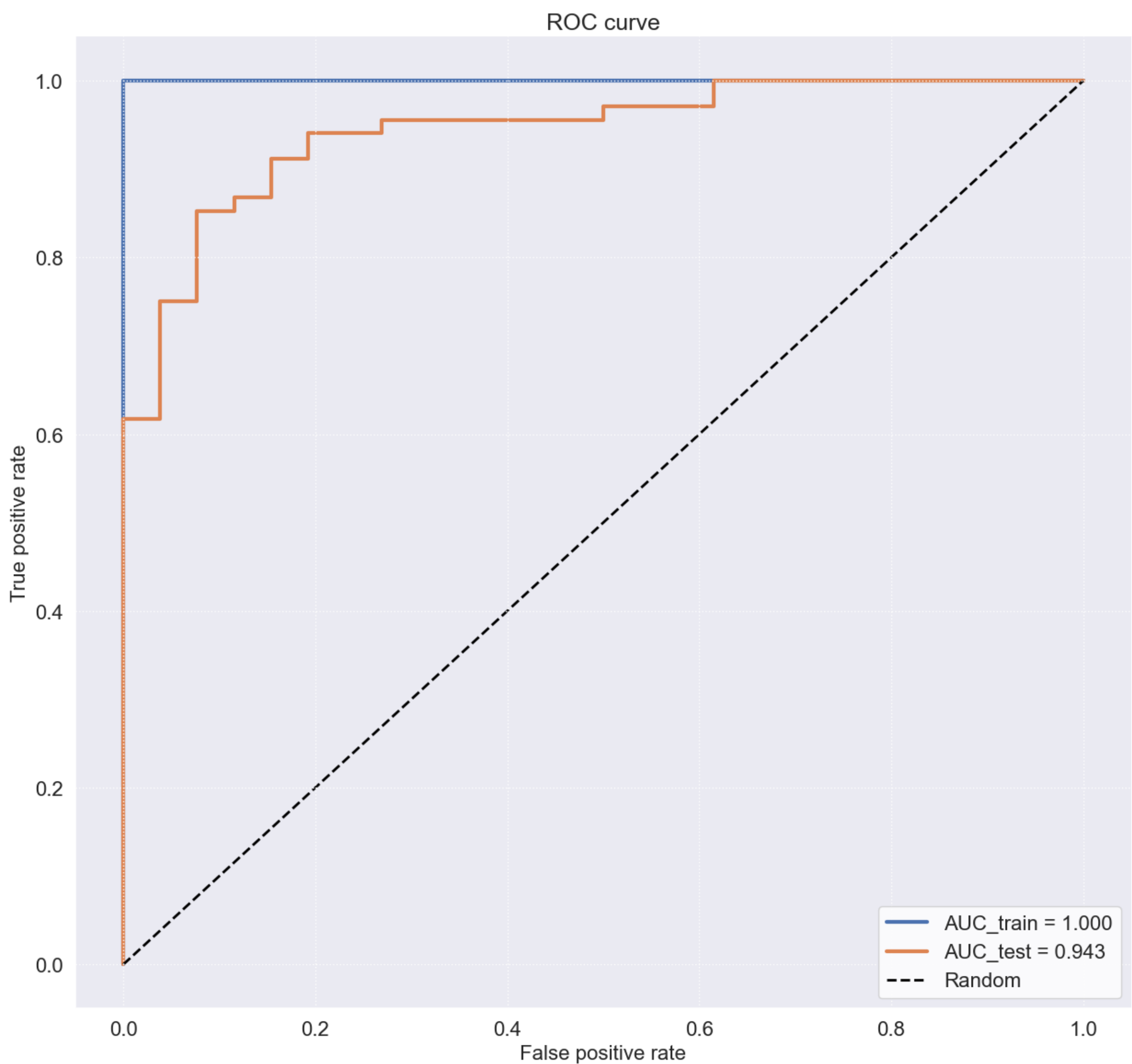
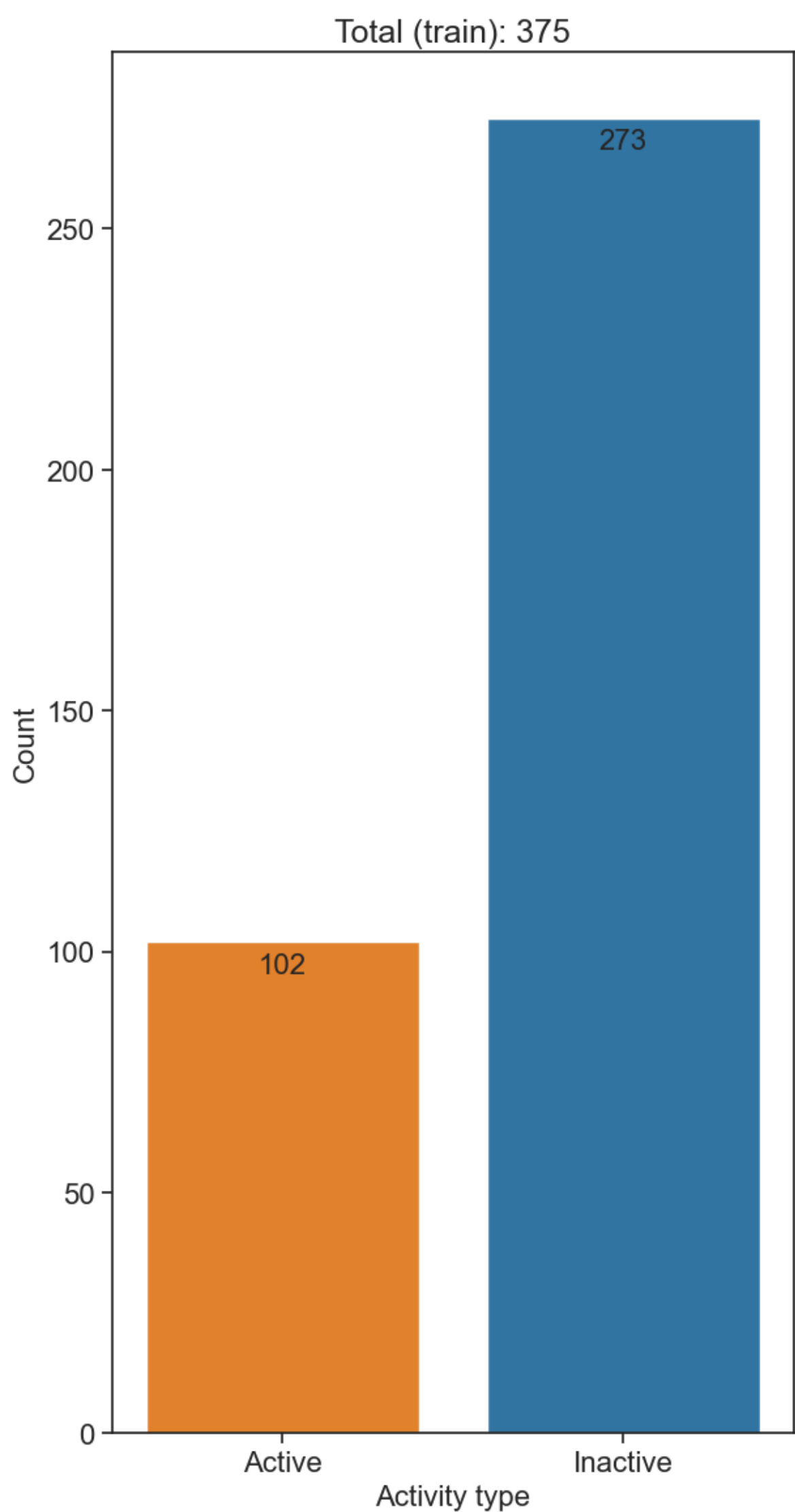
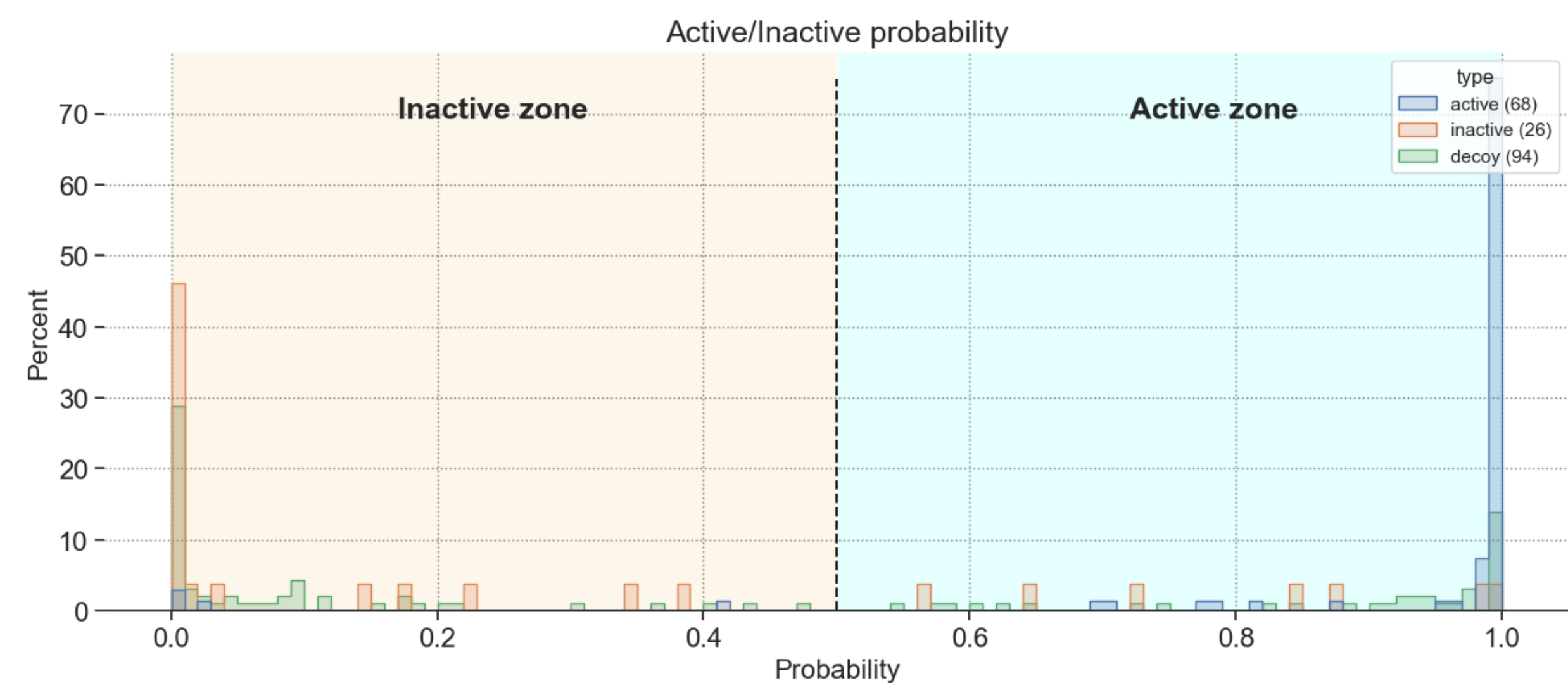
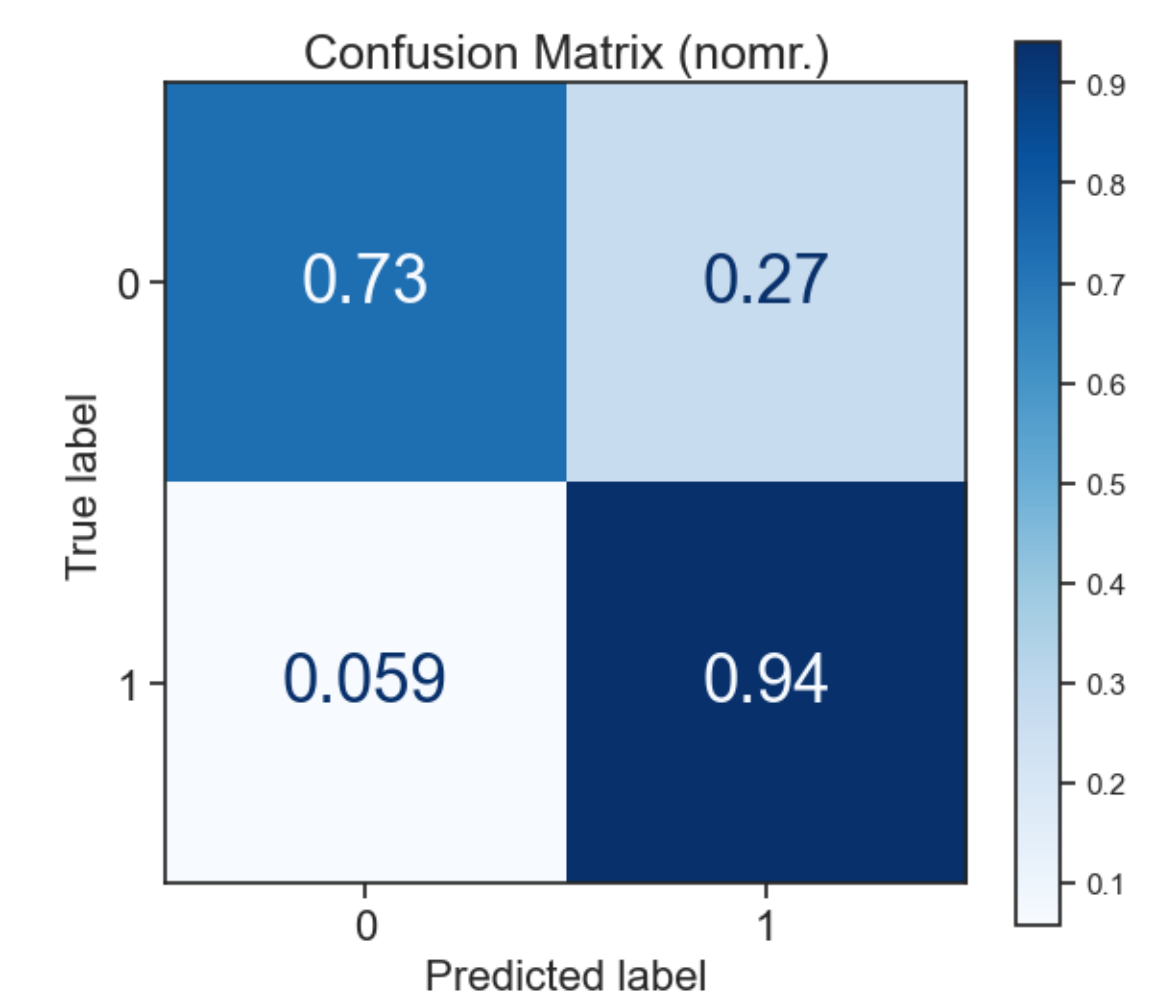
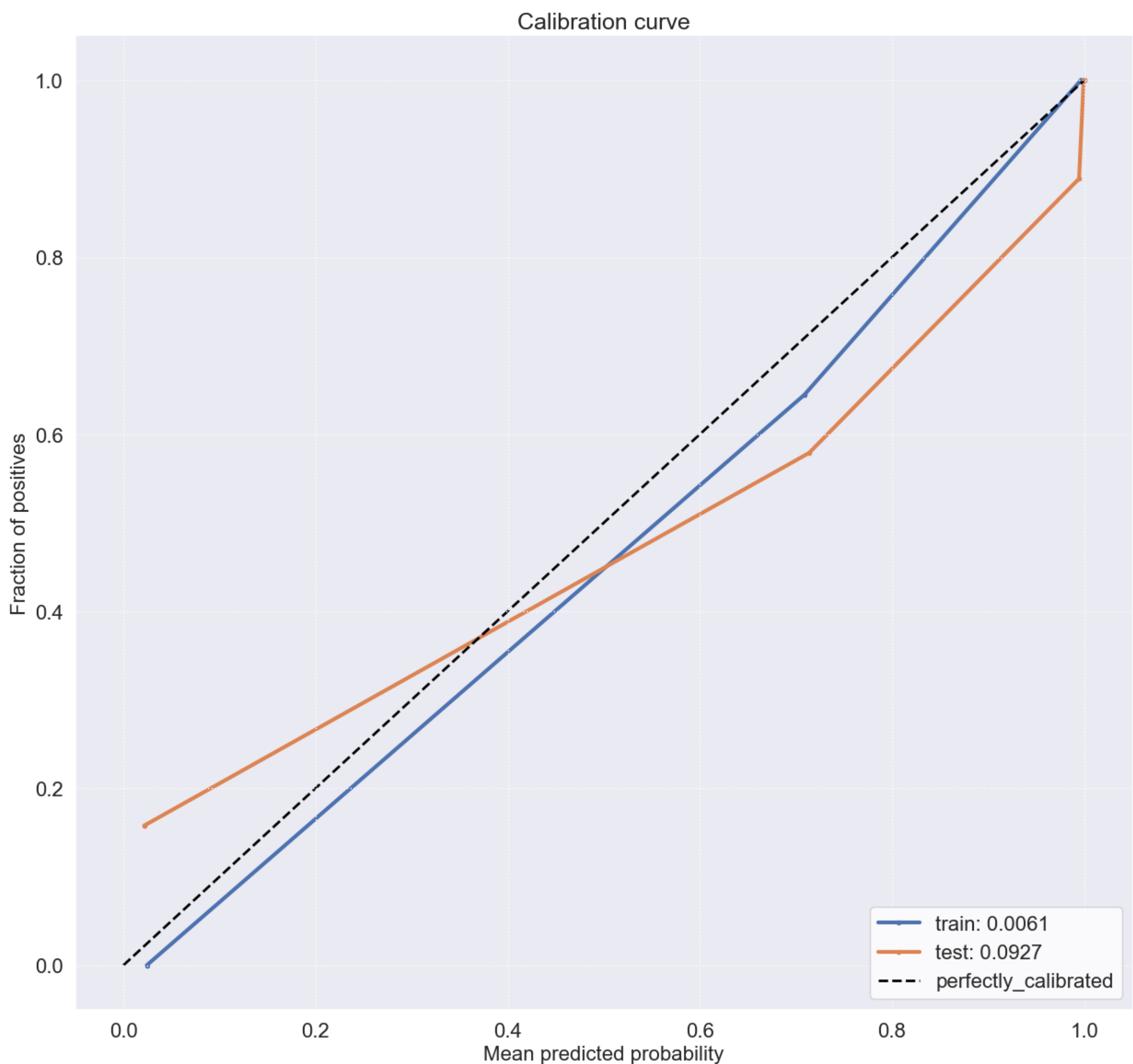
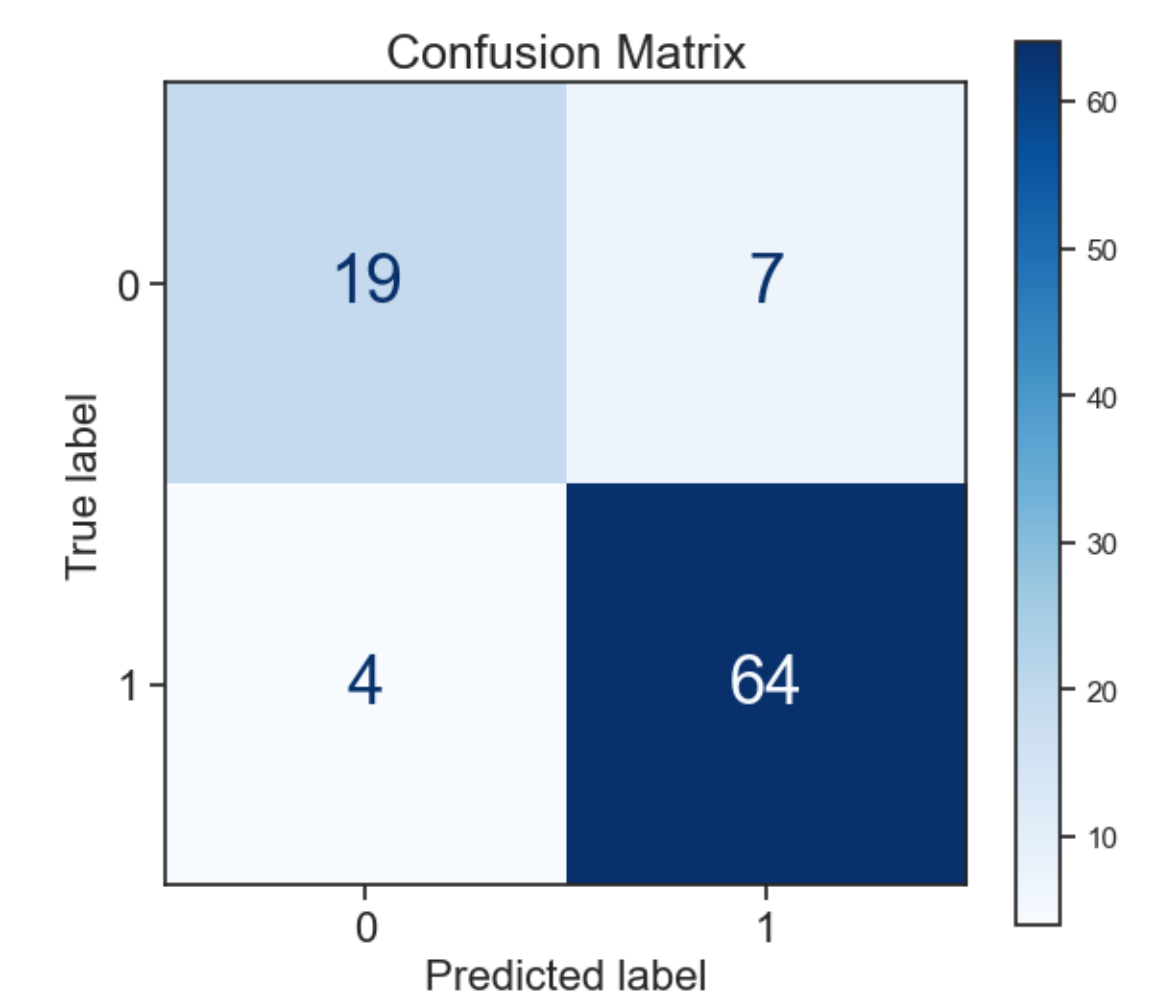


Protein: P18825 - metric: balanced_accuracy

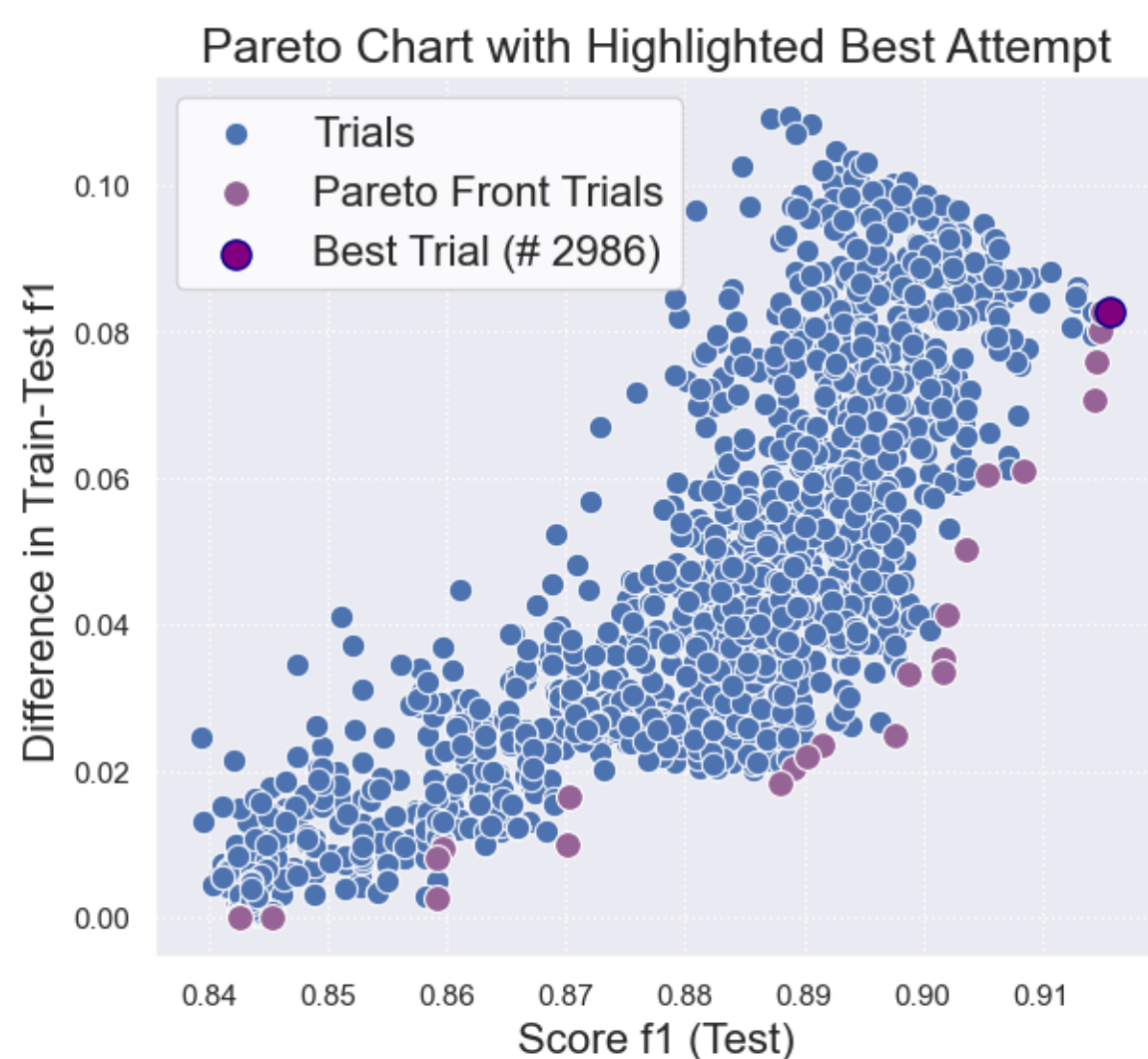
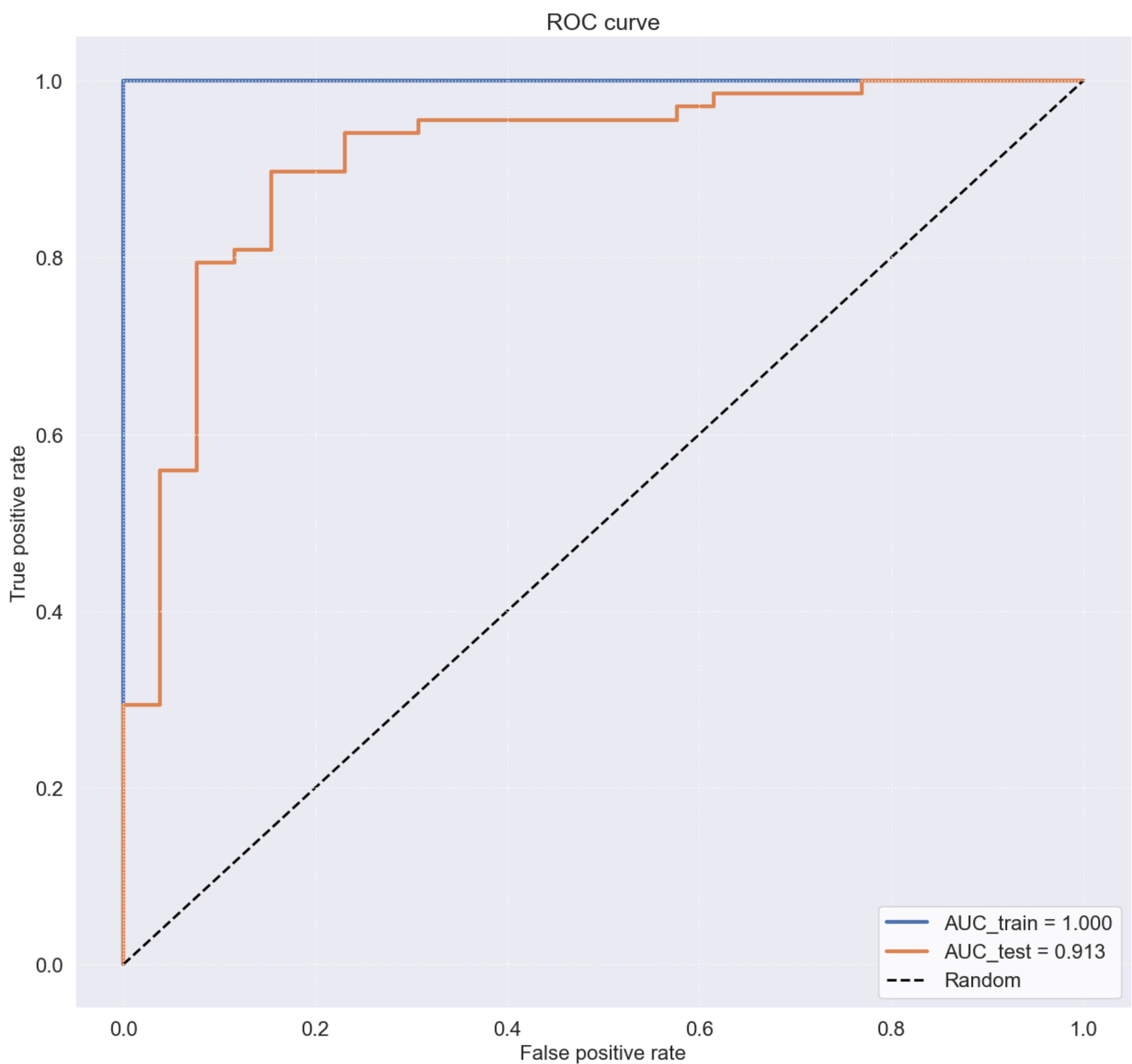
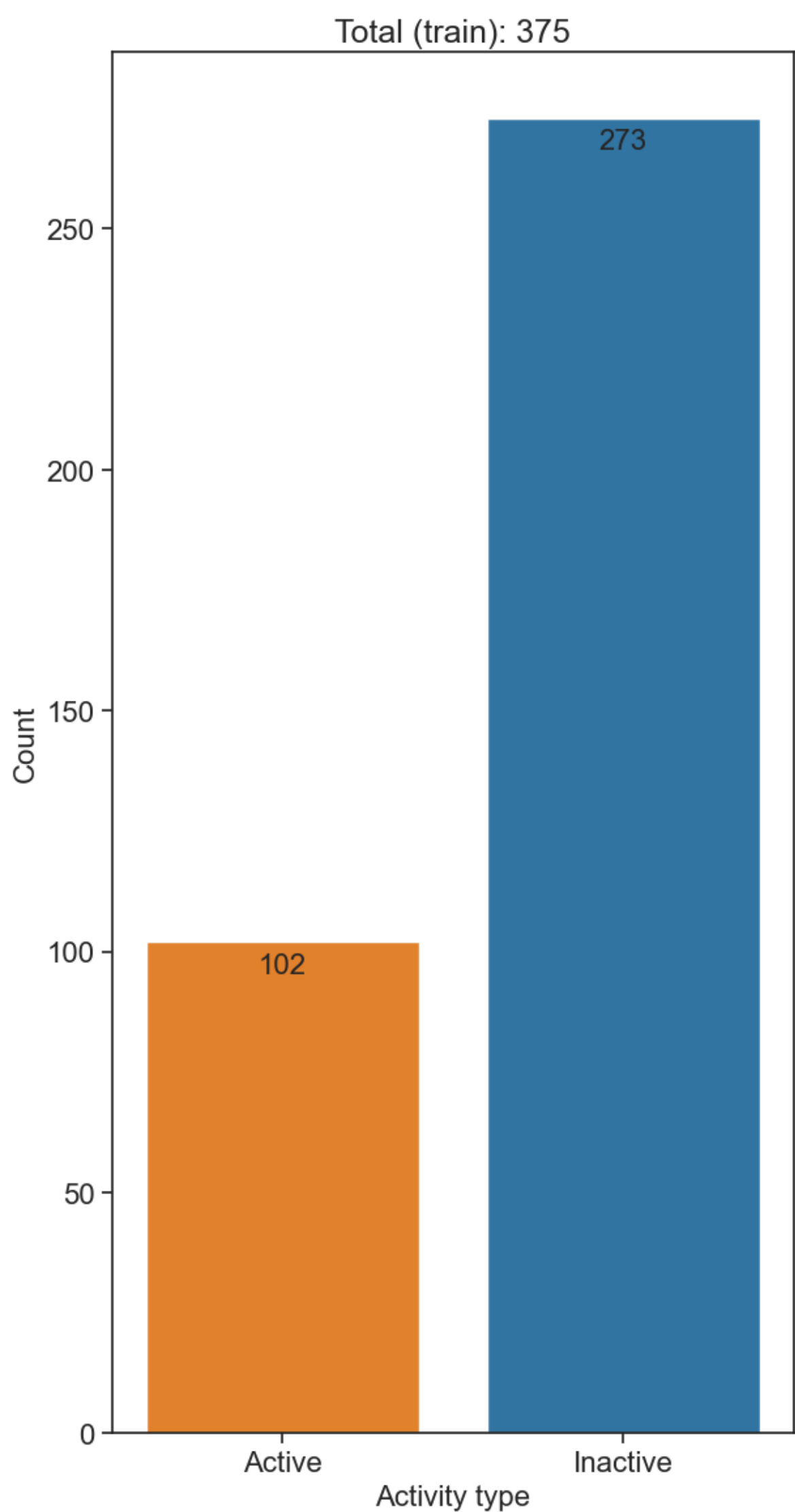


XGBoost Parameters	Value
alpha	2.7618
colsample_bytree	0.8182
gamma	0.9483
lambda	2.8891
learning_rate	0.9165
max_depth	9.0
min_child_weight	1.0
n_estimators	233.0
reg_alpha	0.3858
reg_lambda	0.1582
scale_pos_weight	4.3981
subsample	0.5694

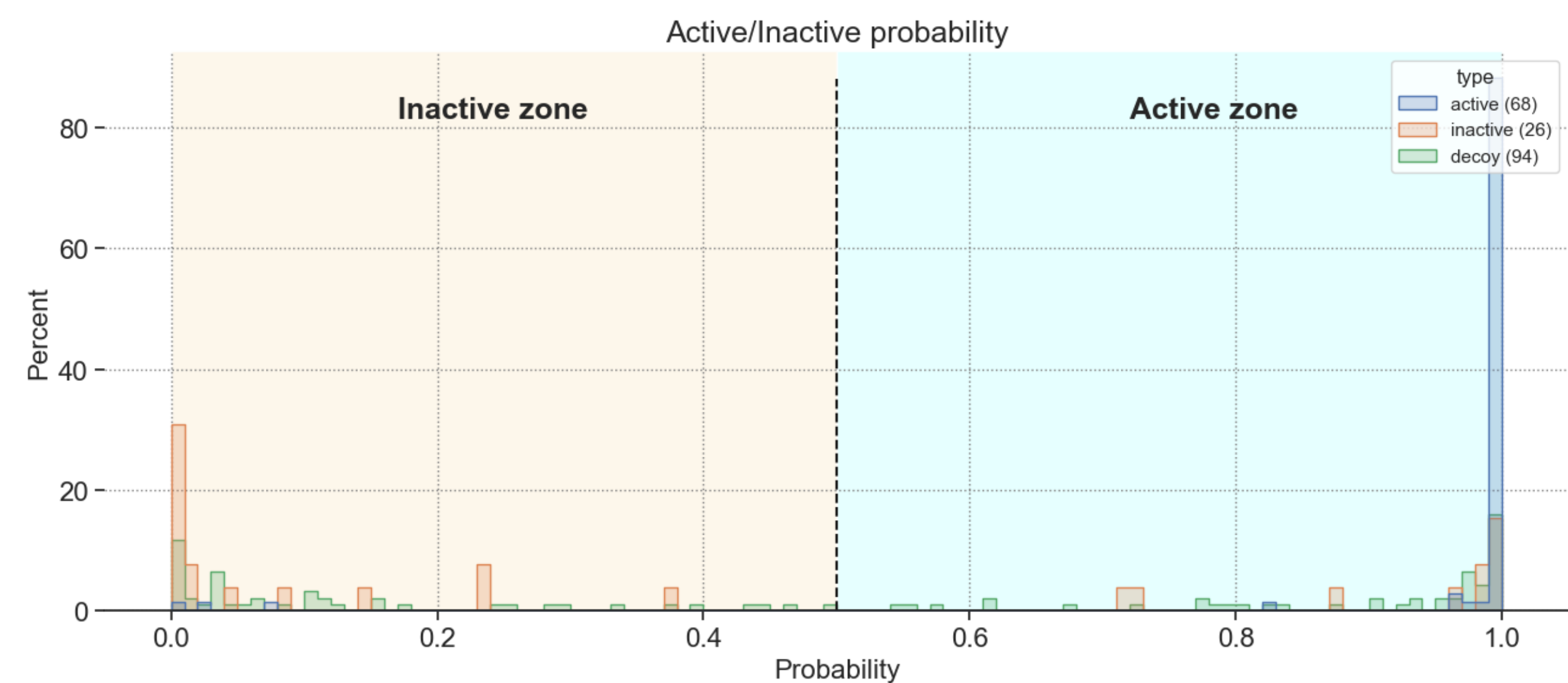
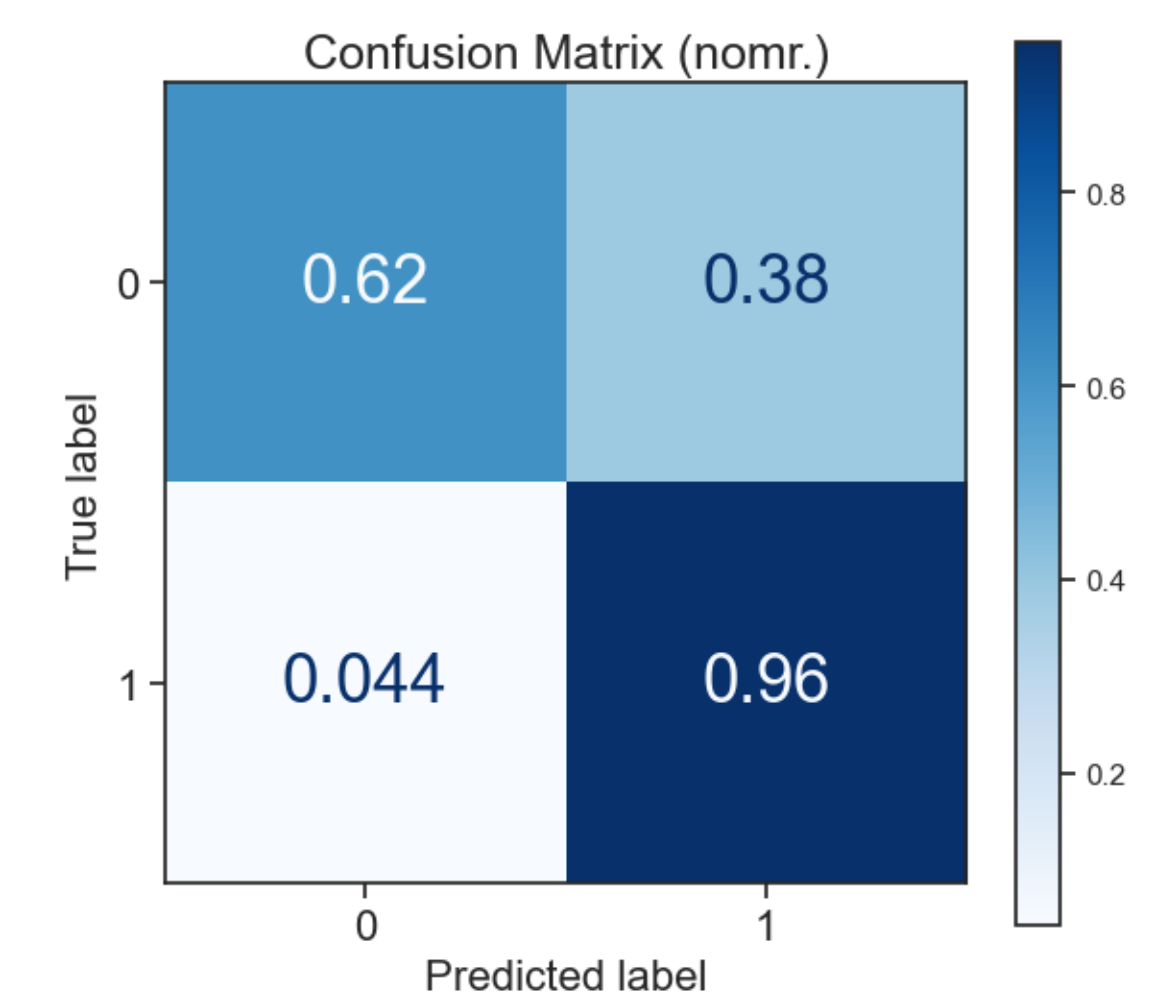
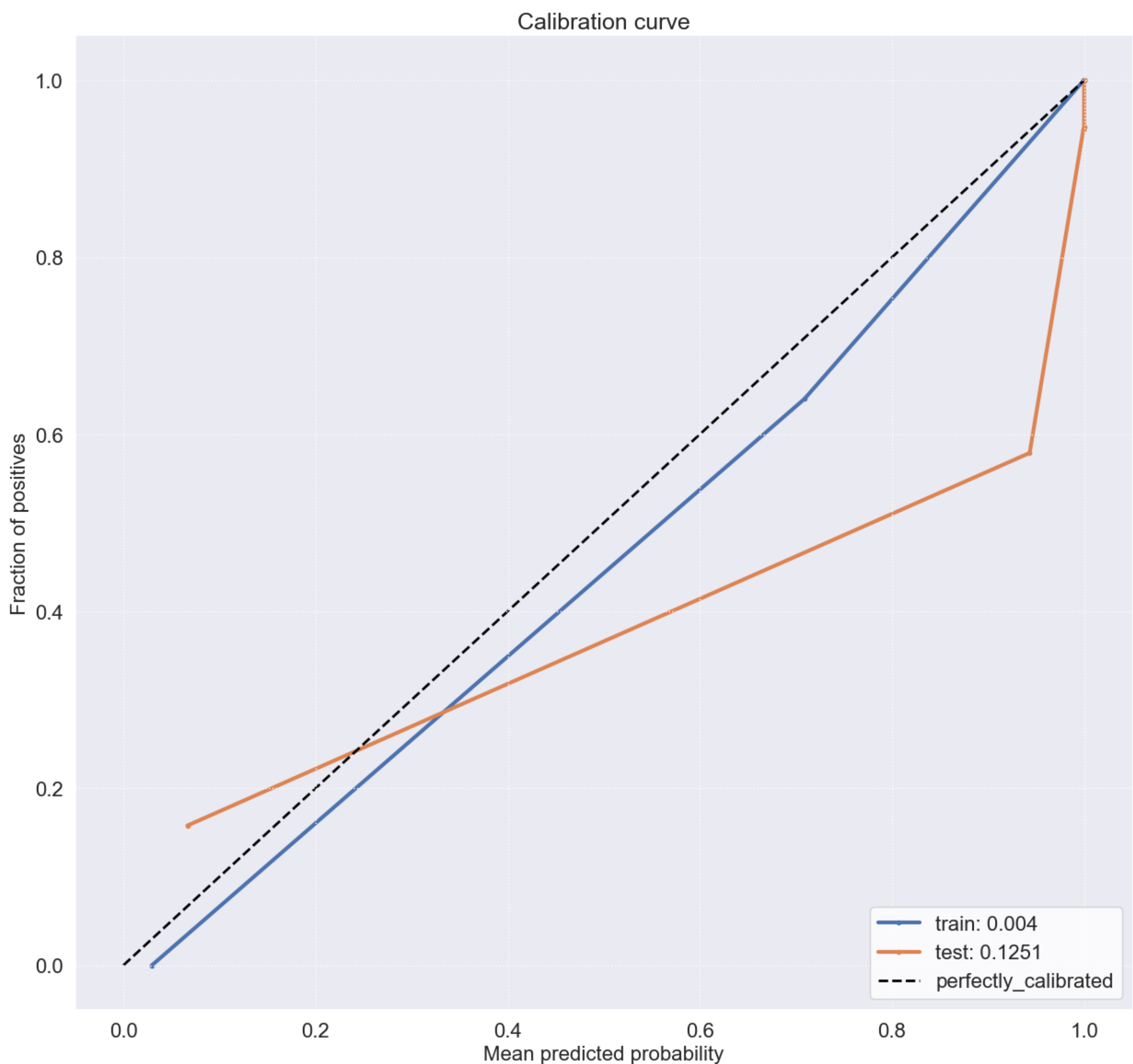
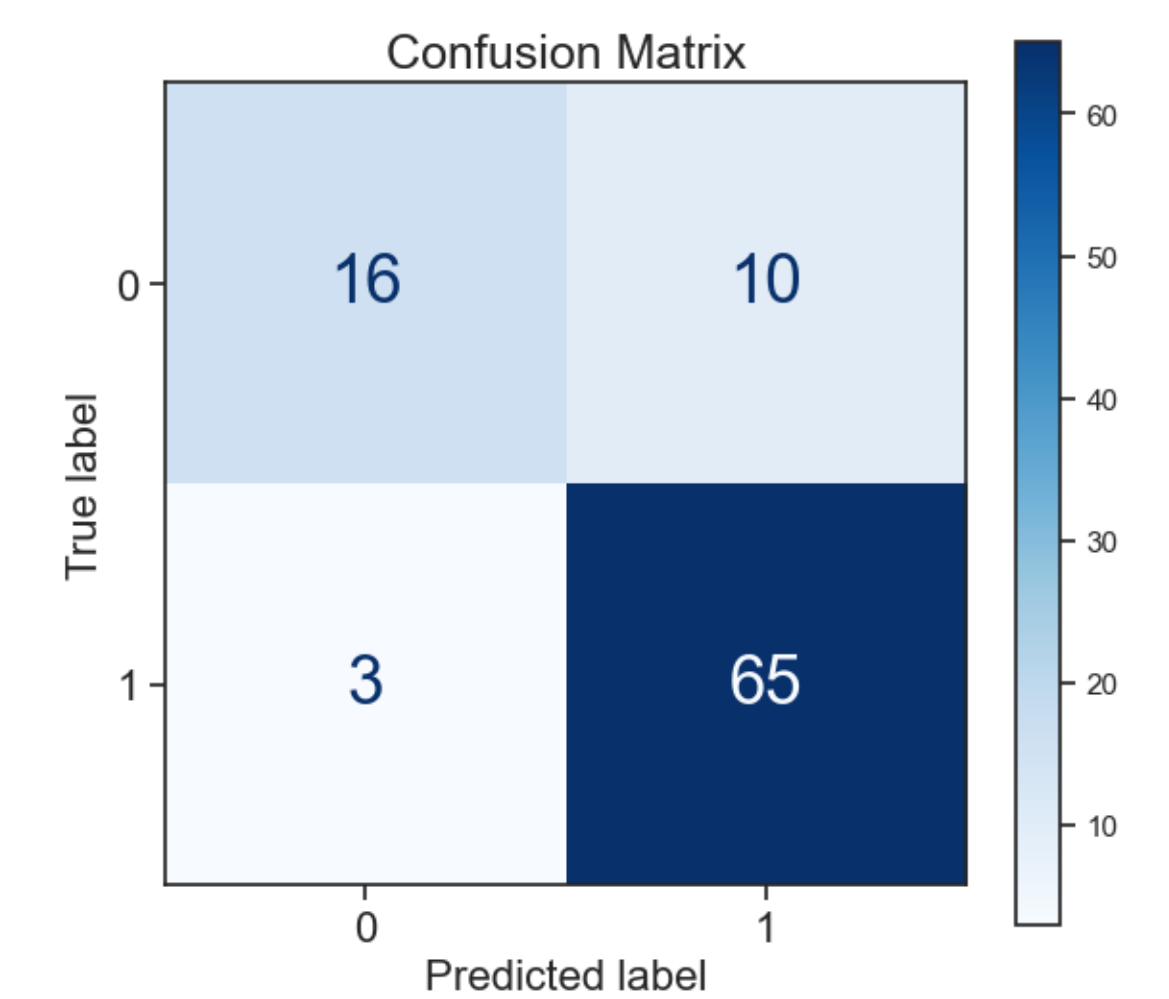


Metric	Train	Test
AUC	1.0	0.9434
accuracy	0.9947	0.883
balanced accuracy	0.9902	0.836
recall_(sens)	1.0	0.9412
specificity	0.9804	0.7308
precision	0.9927	0.9014
f1_score	0.9946	0.8807

Protein: P18825 - metric: f1

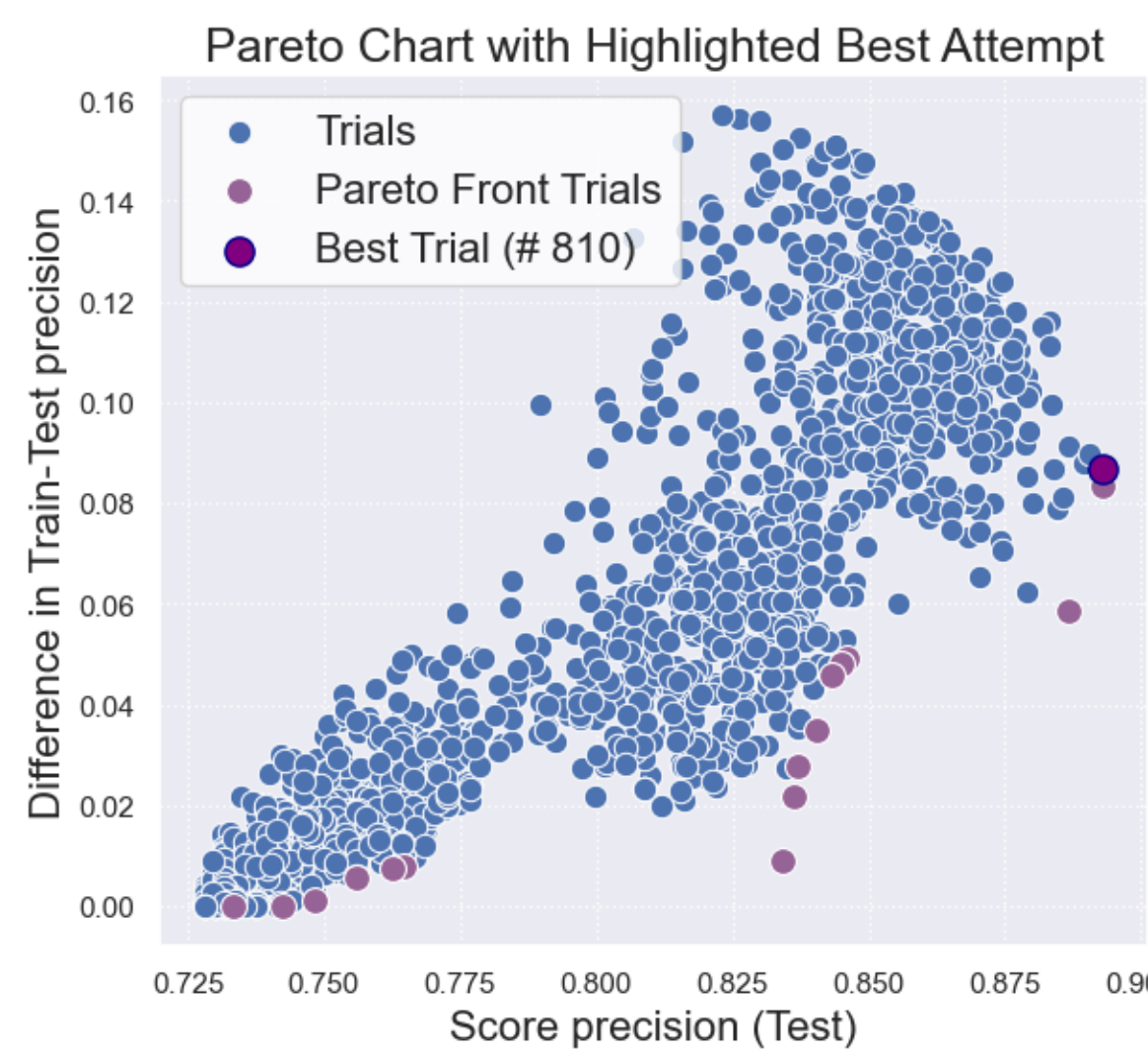
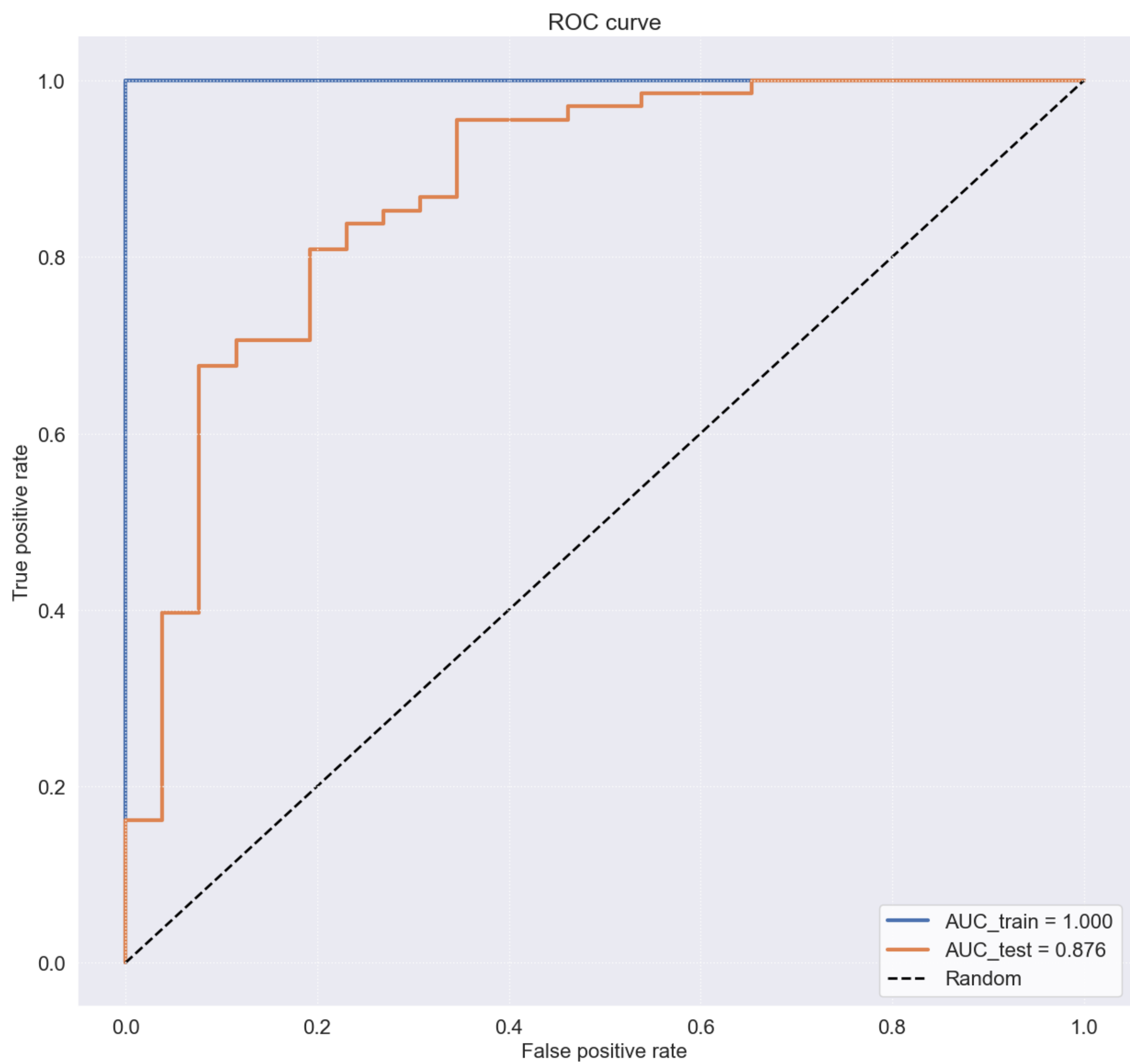
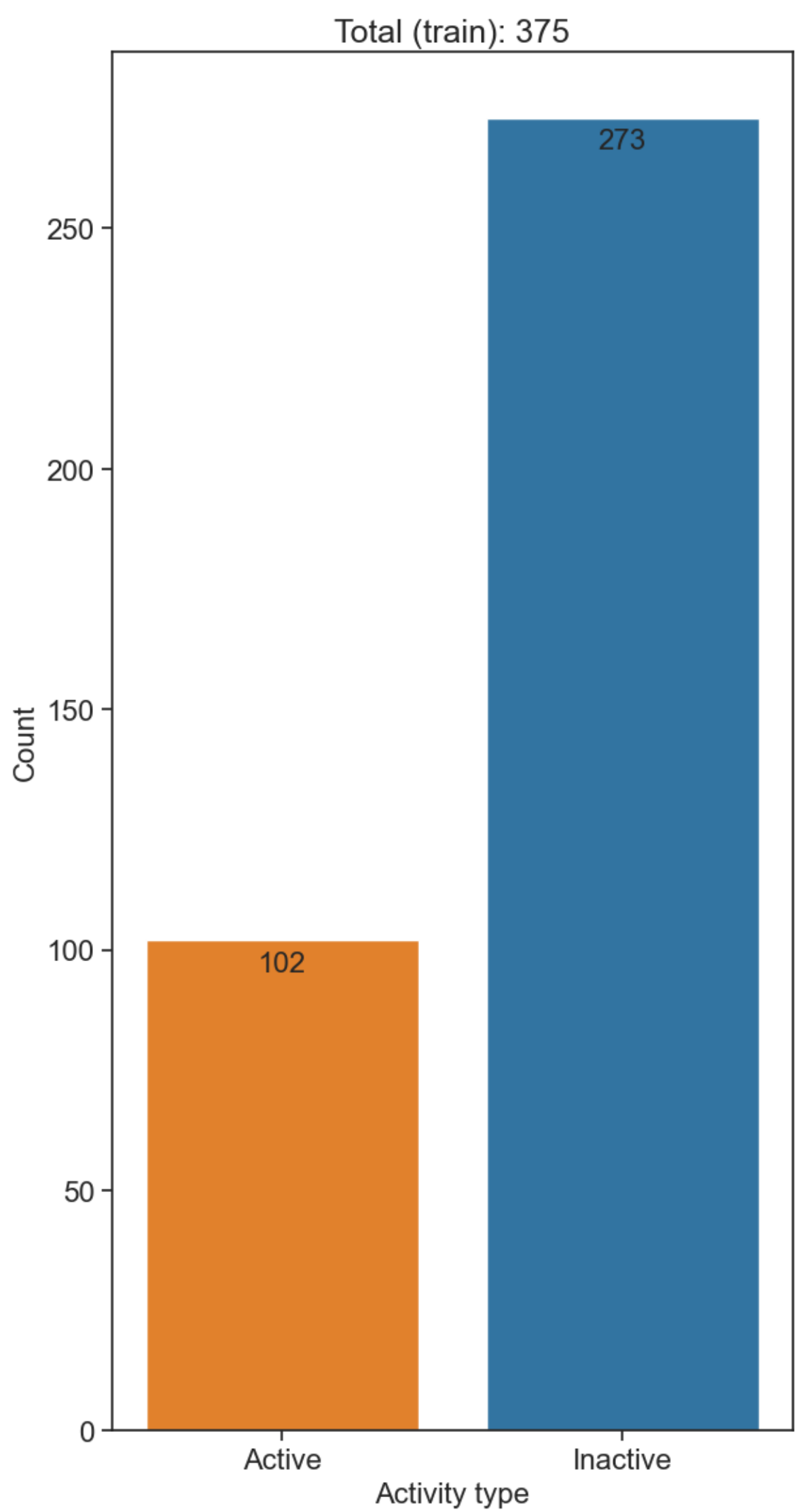


XGBoost Parameters	Value
alpha	0.5314
colsample_bytree	0.7708
gamma	0.5735
lambda	3.5624
learning_rate	0.446
max_depth	9.0
min_child_weight	1.0
n_estimators	778.0
reg_alpha	0.1799
reg_lambda	0.079
scale_pos_weight	61.435
subsample	0.5362

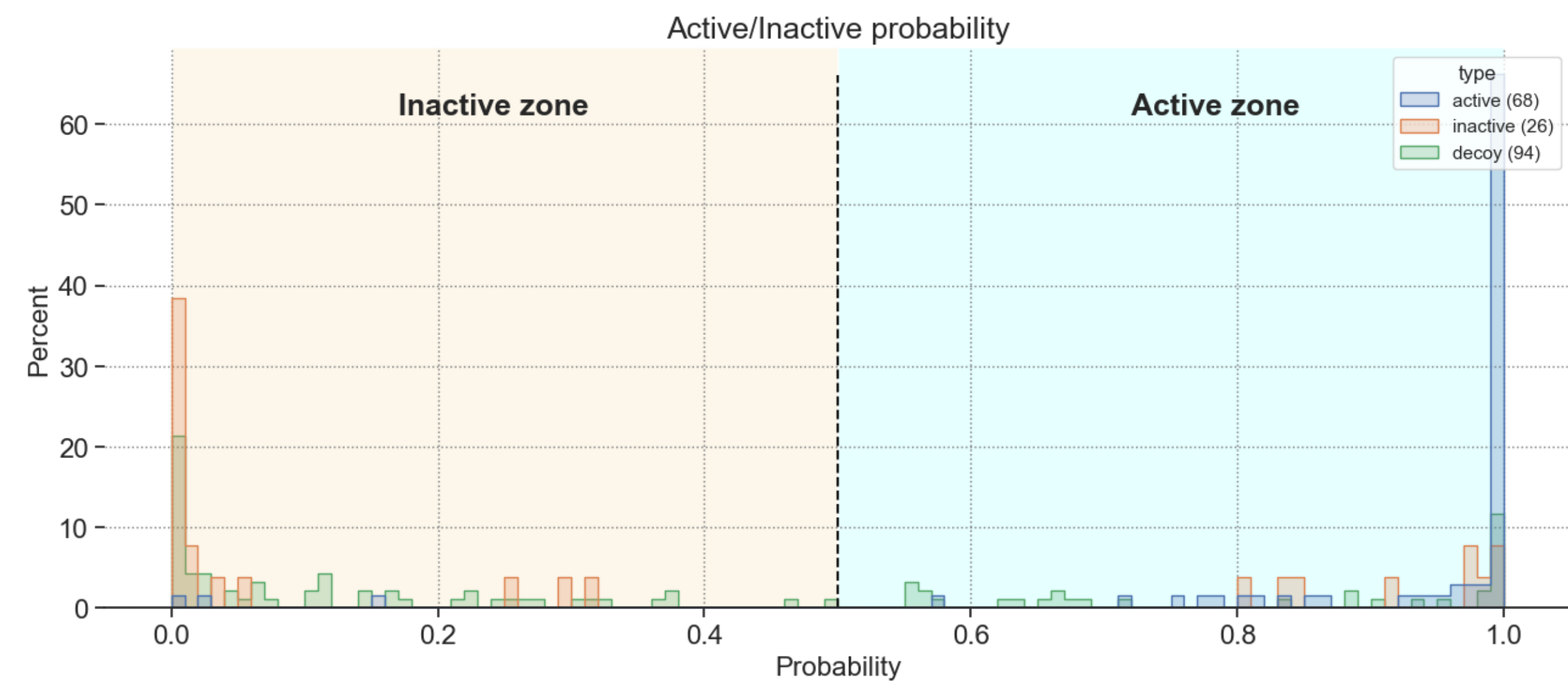
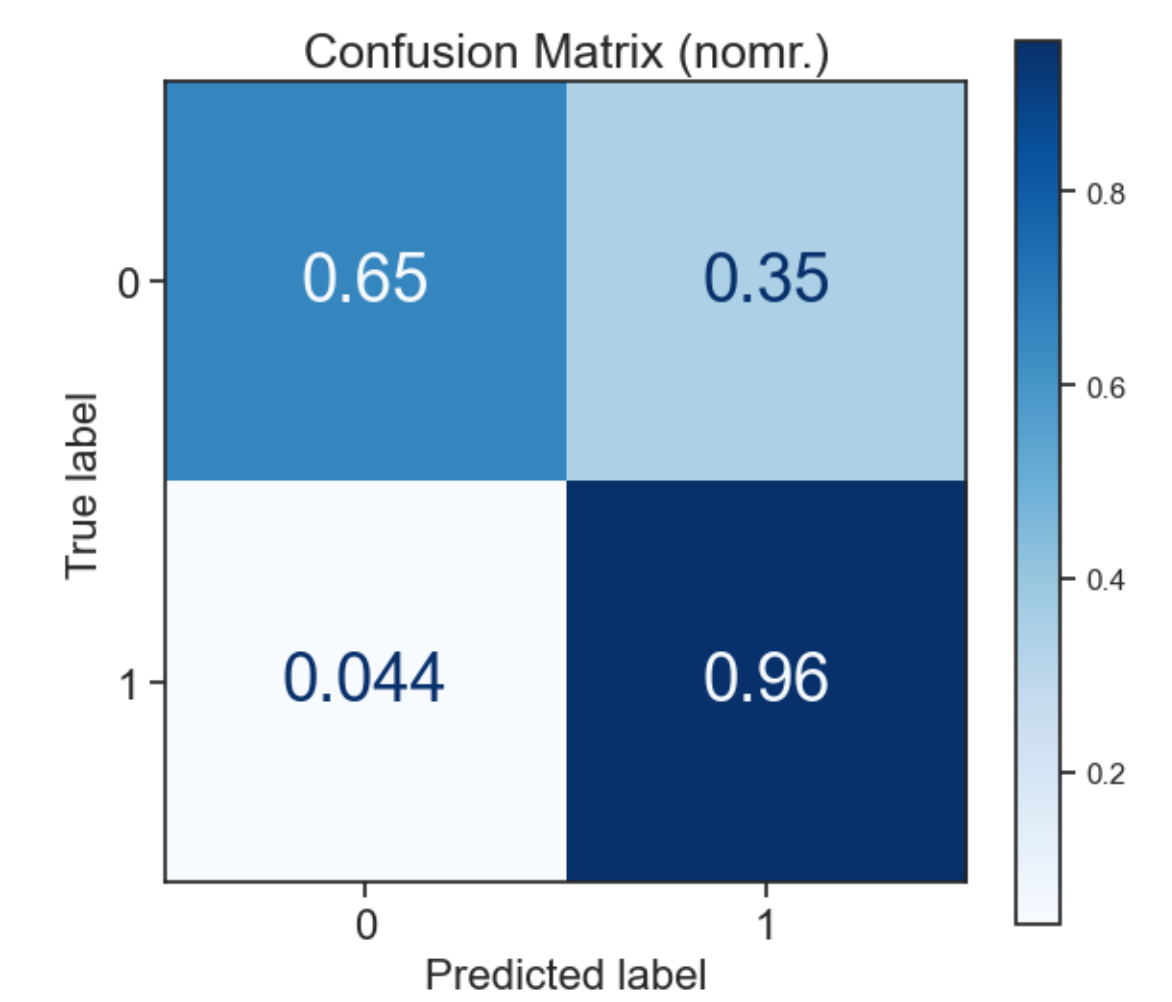
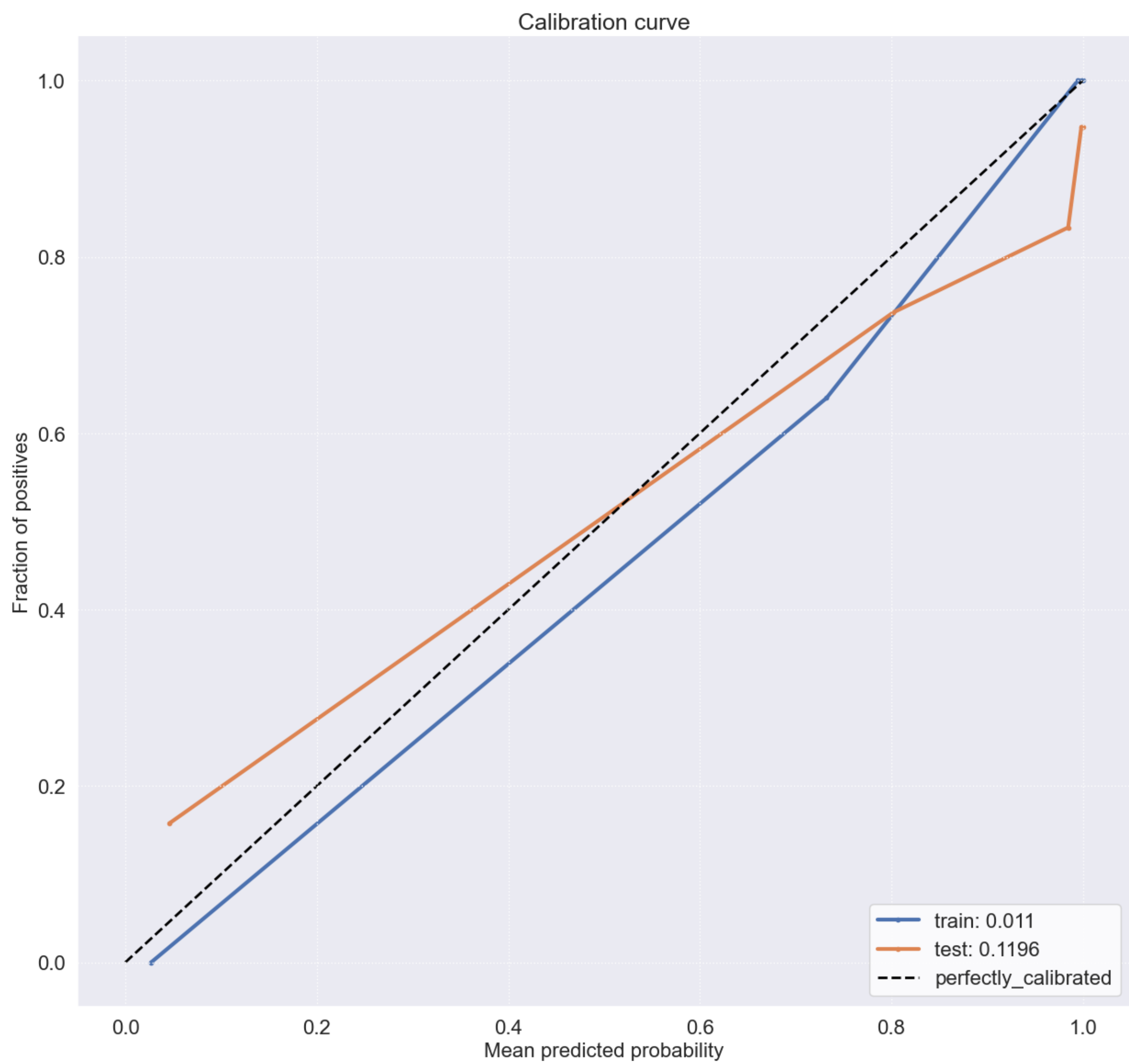
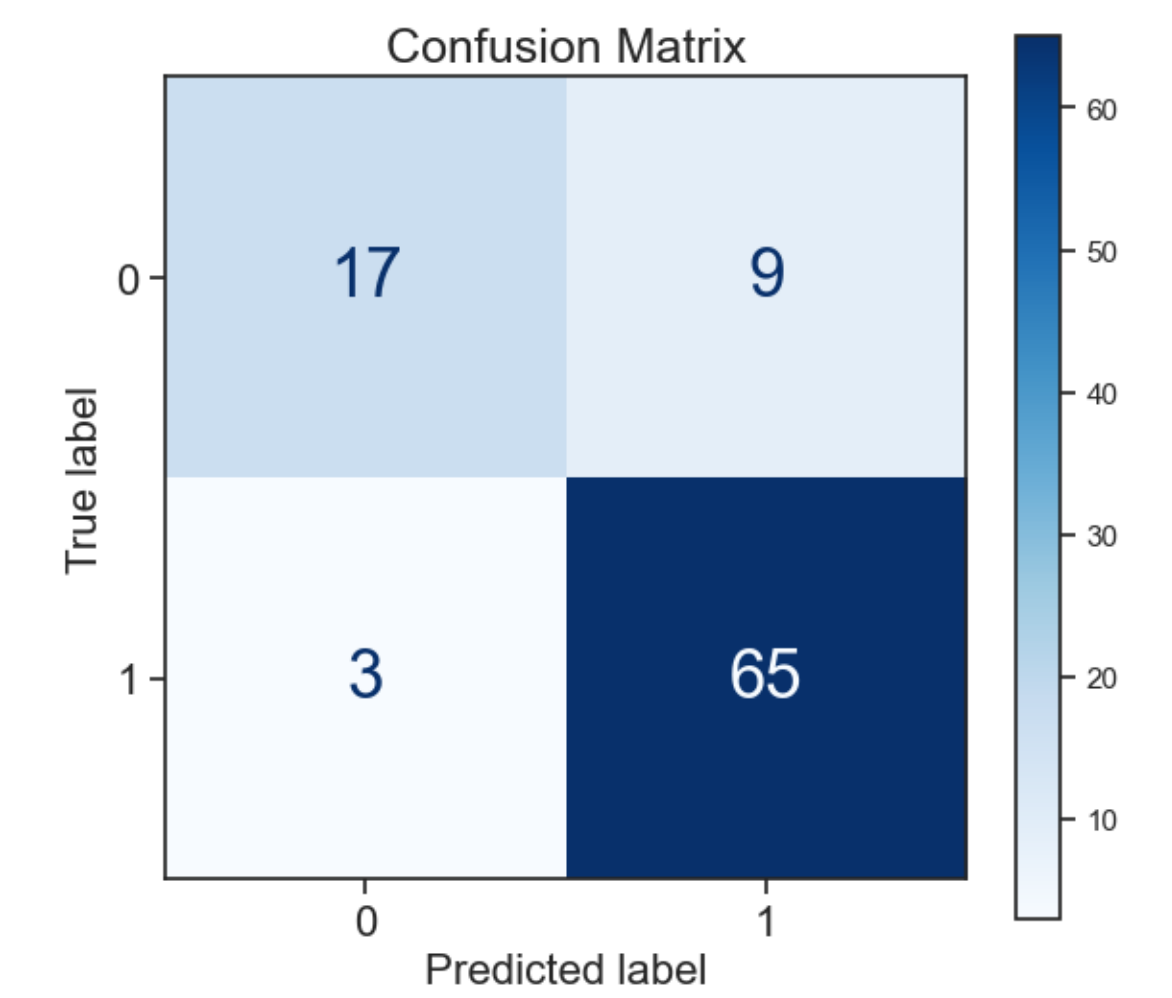


Metric	Train	Test
AUC	1.0	0.9129
accuracy	0.9973	0.8617
balanced accuracy	0.9951	0.7856
recall_(sens)	1.0	0.9559
specificity	0.9902	0.6154
precision	0.9964	0.8667
f1_score	0.9973	0.8543

Protein: P18825 - metric: precision

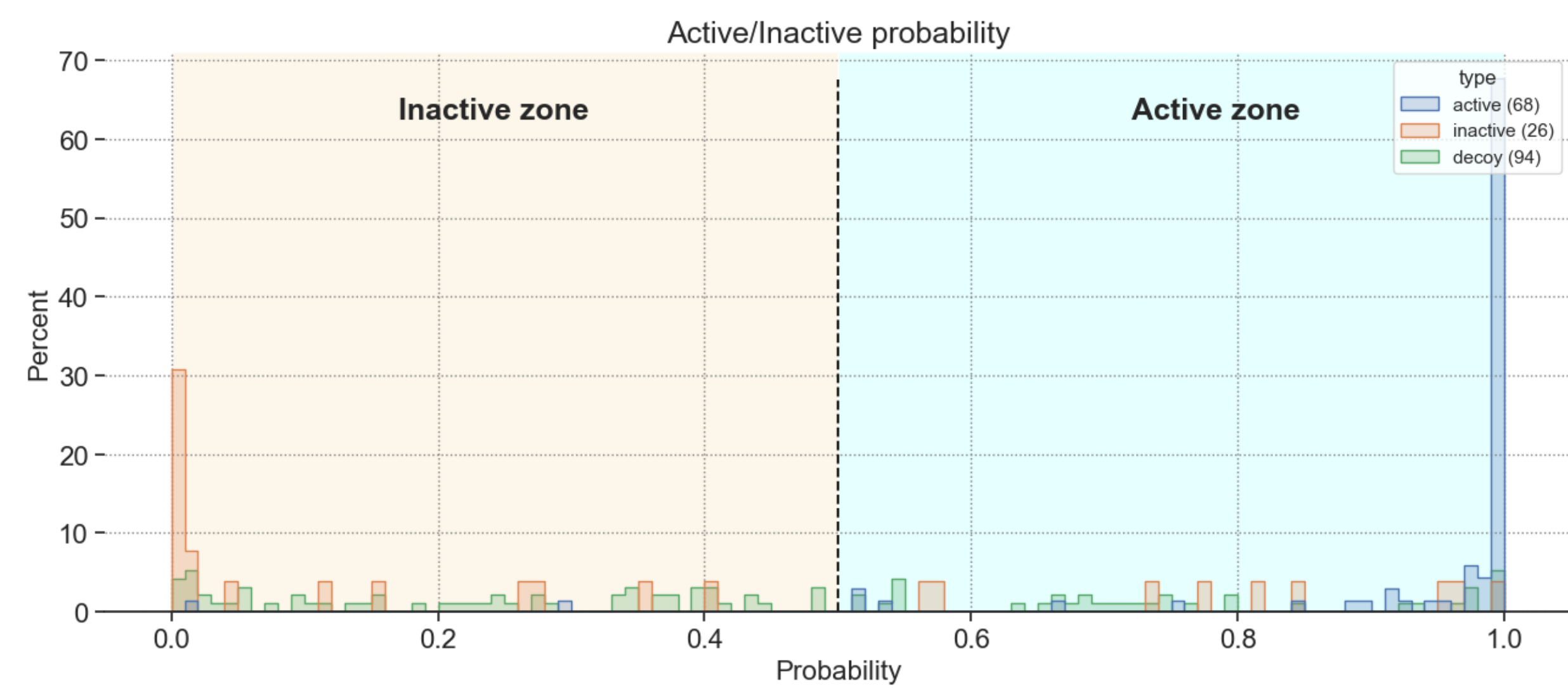
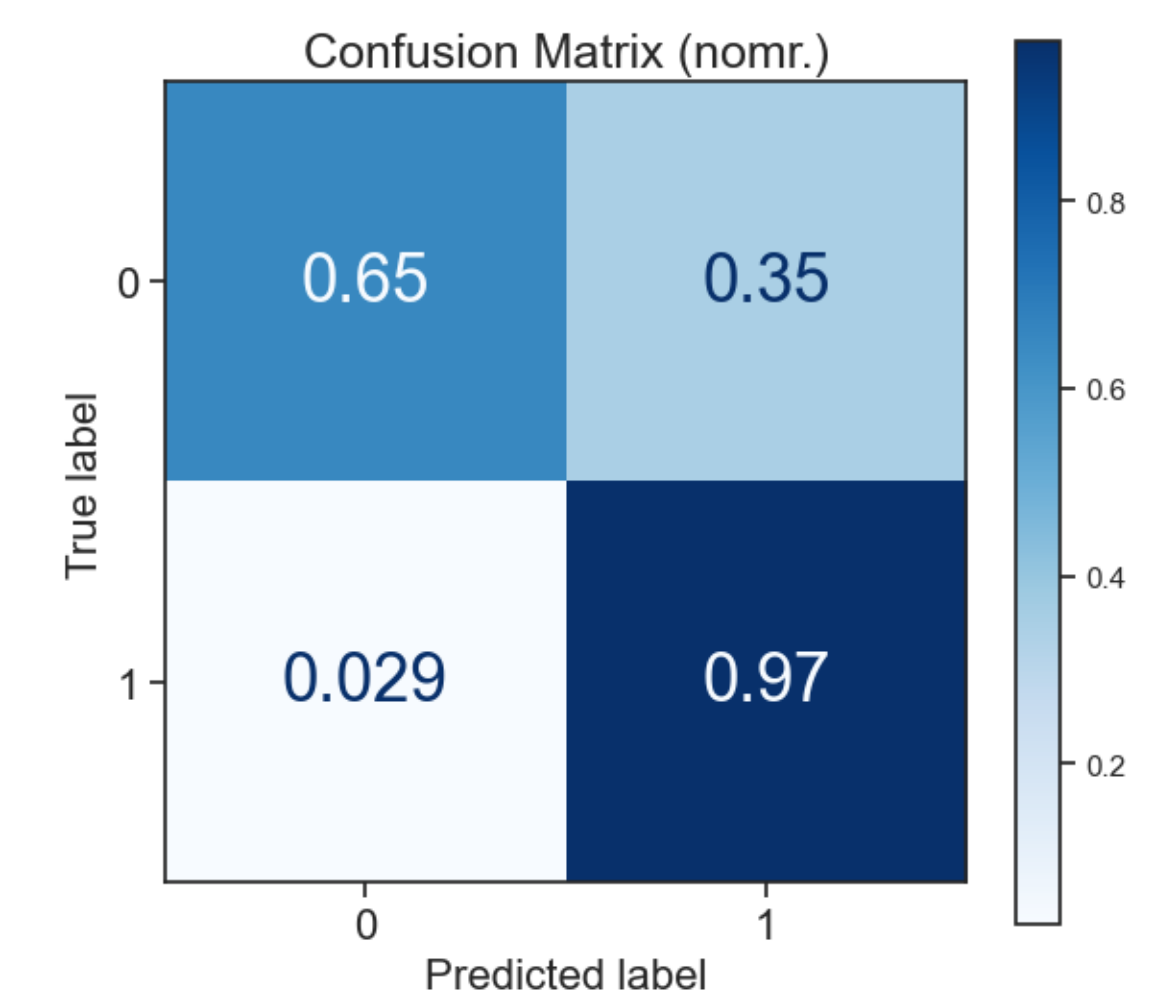
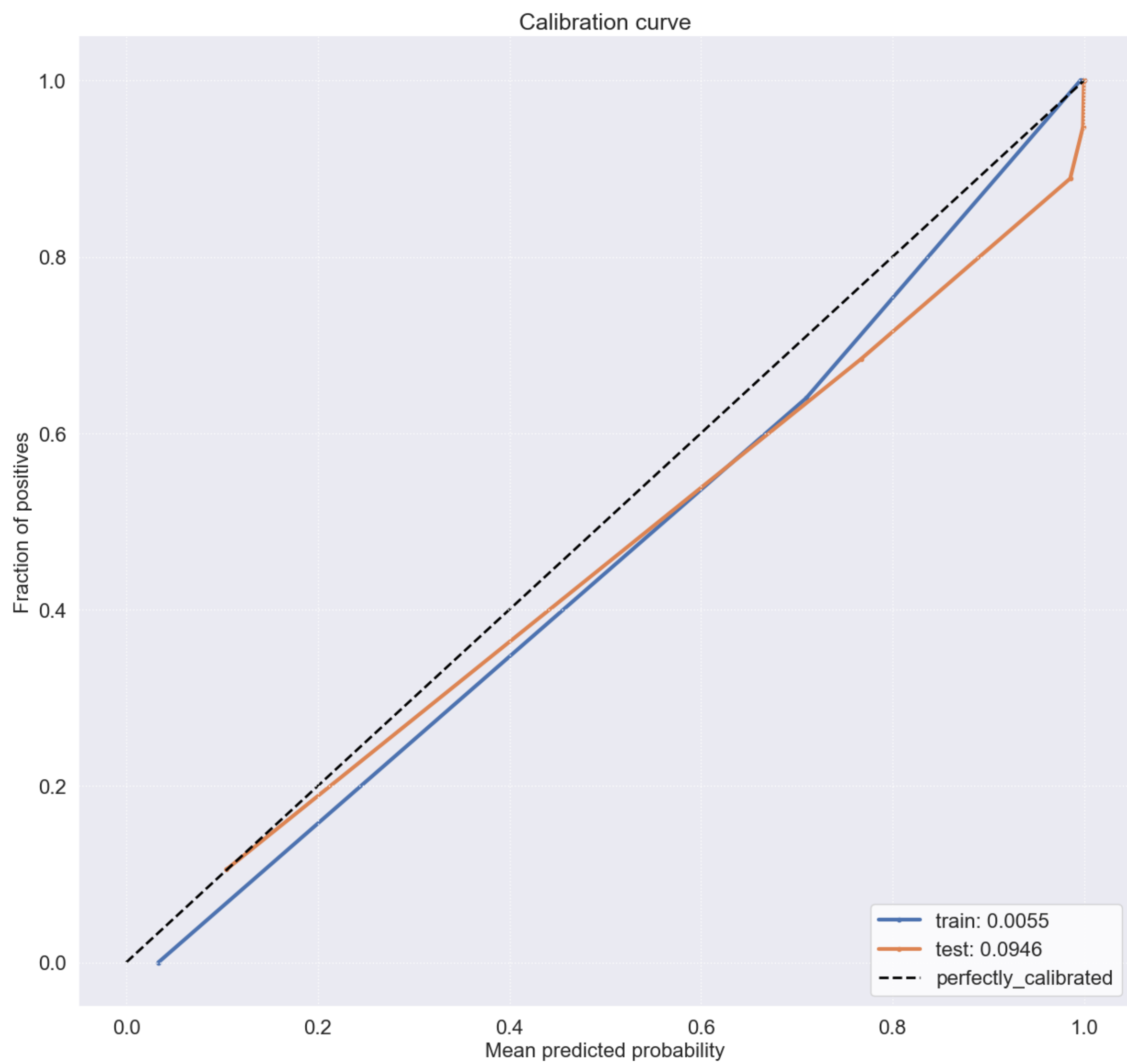
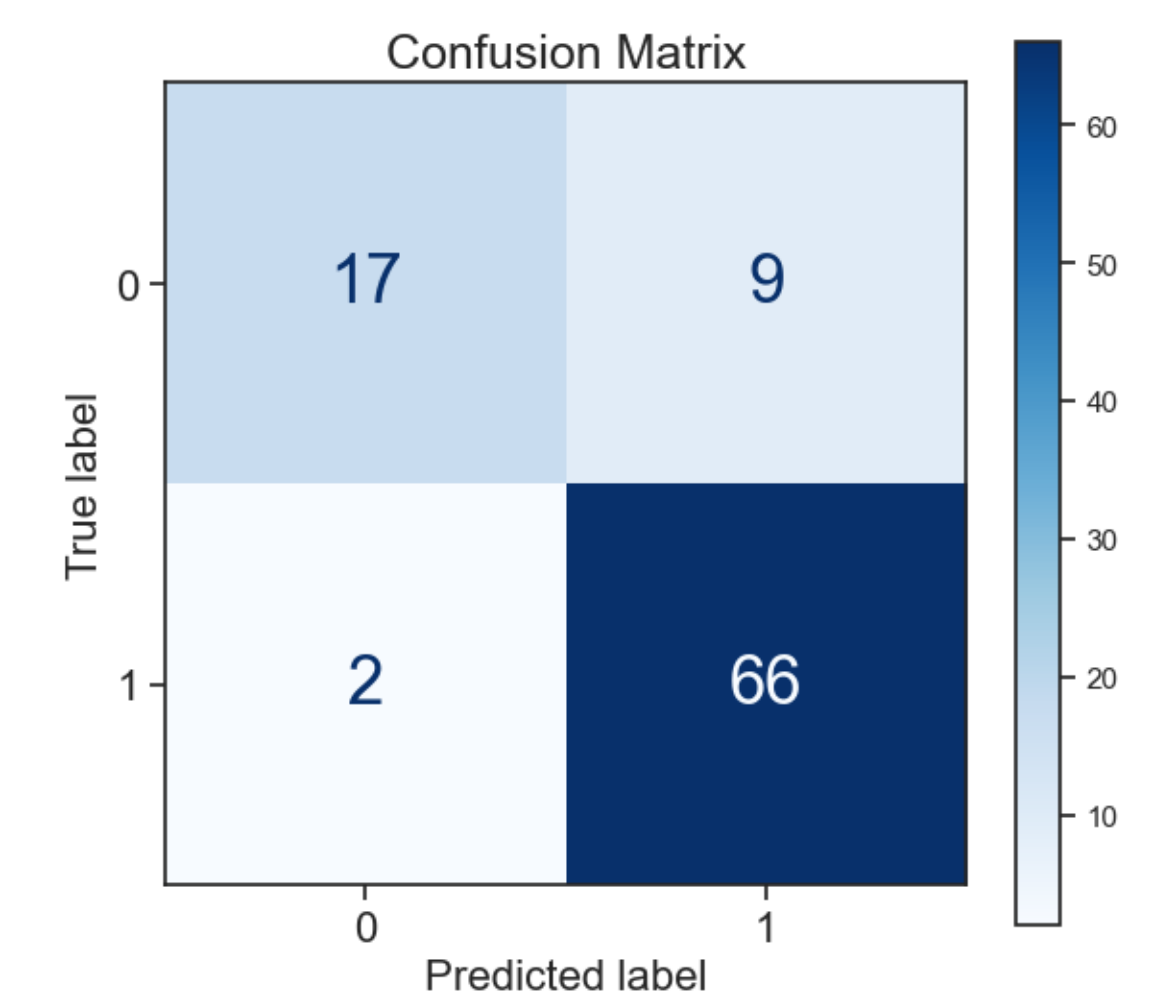
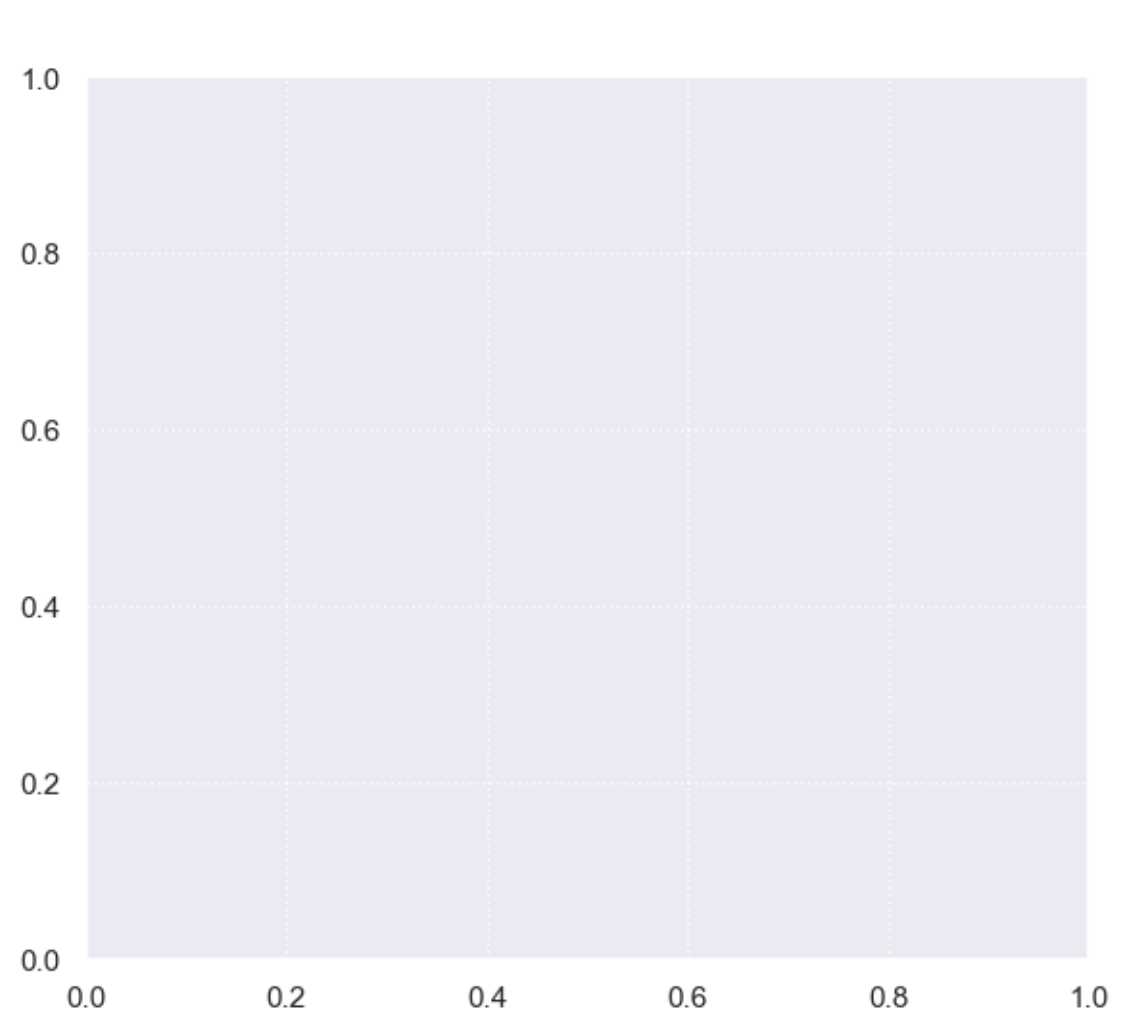
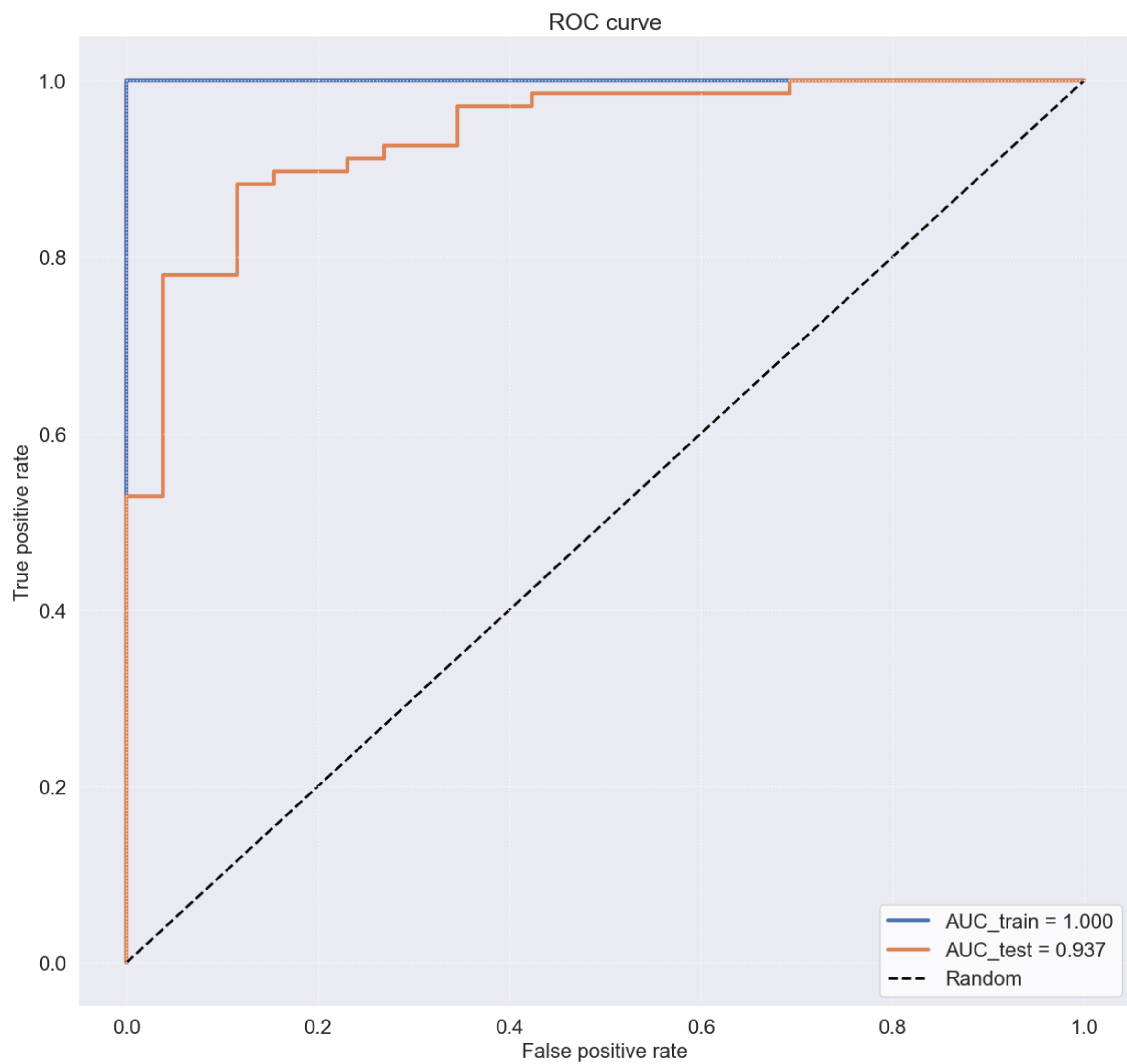
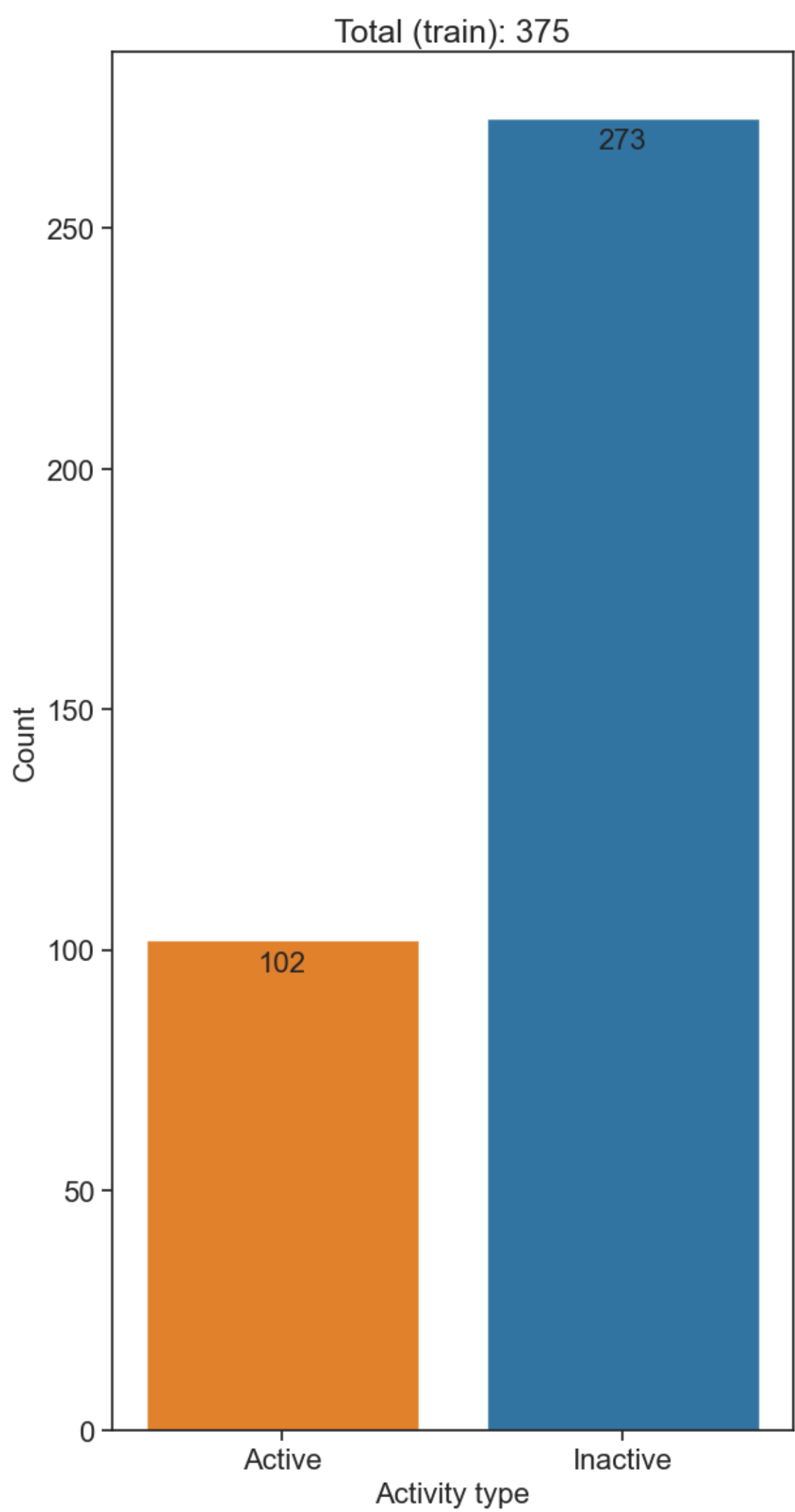


XGBoost Parameters	Value
alpha	0.4744
colsample_bytree	0.533
gamma	0.7575
lambda	1.0904
learning_rate	0.9313
max_depth	3.0
min_child_weight	2.0
n_estimators	977.0
reg_alpha	0.4535
reg_lambda	0.6041
scale_pos_weight	7.1899
subsample	0.5



Metric	Train	Test
AUC	1.0	0.8761
accuracy	0.9893	0.8723
balanced accuracy	0.9804	0.8049
recall_(sens)	1.0	0.9559
specificity	0.9608	0.6538
precision	0.9856	0.8784
f1_score	0.9893	0.8667

Protein: P18825 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	1.0	0.9372
accuracy	0.9947	0.883
balanced accuracy	0.9902	0.8122
recall_(sens)	1.0	0.9706
specificity	0.9804	0.6538
precision	0.9927	0.88
f1_score	0.9946	0.8767