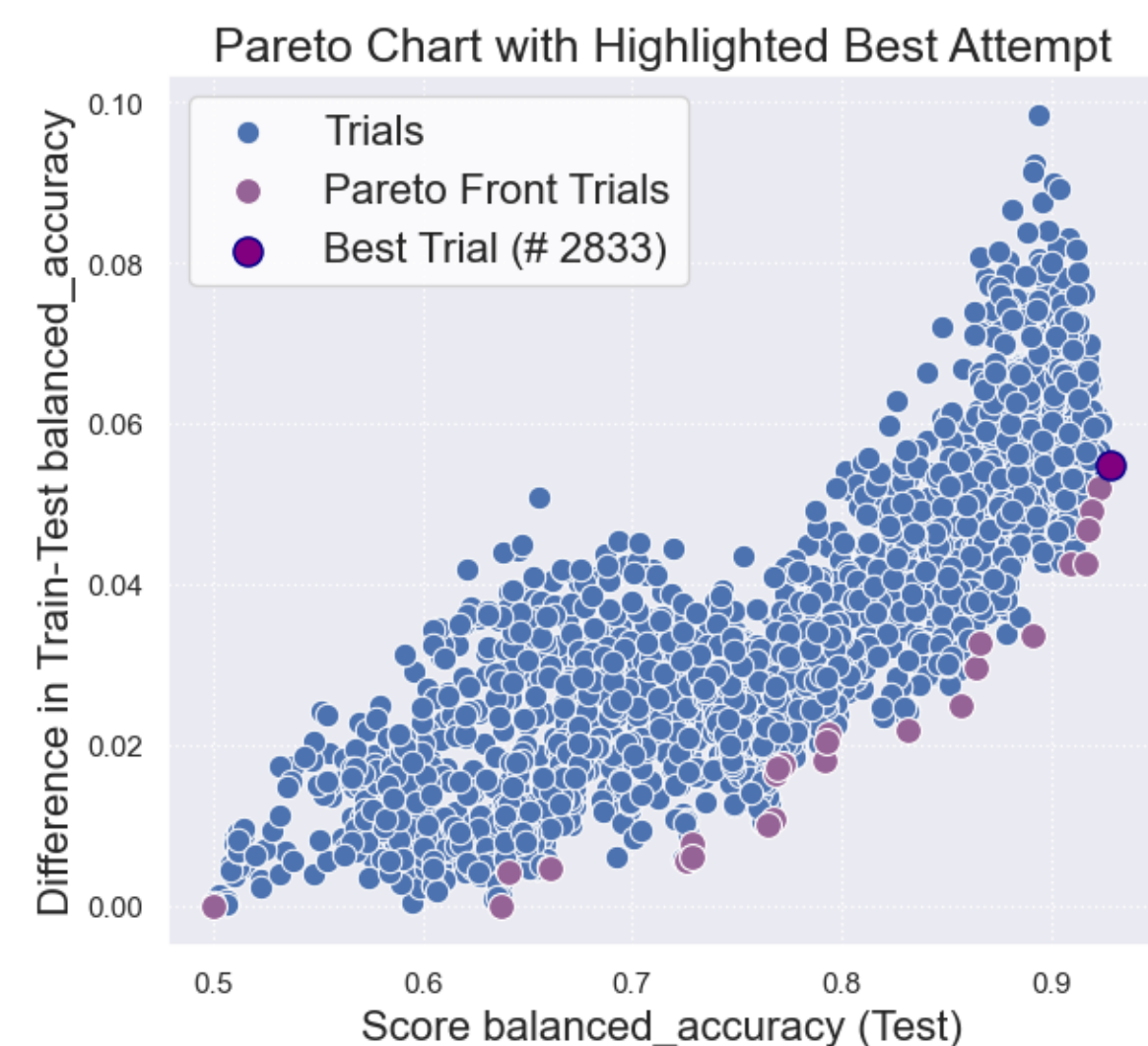
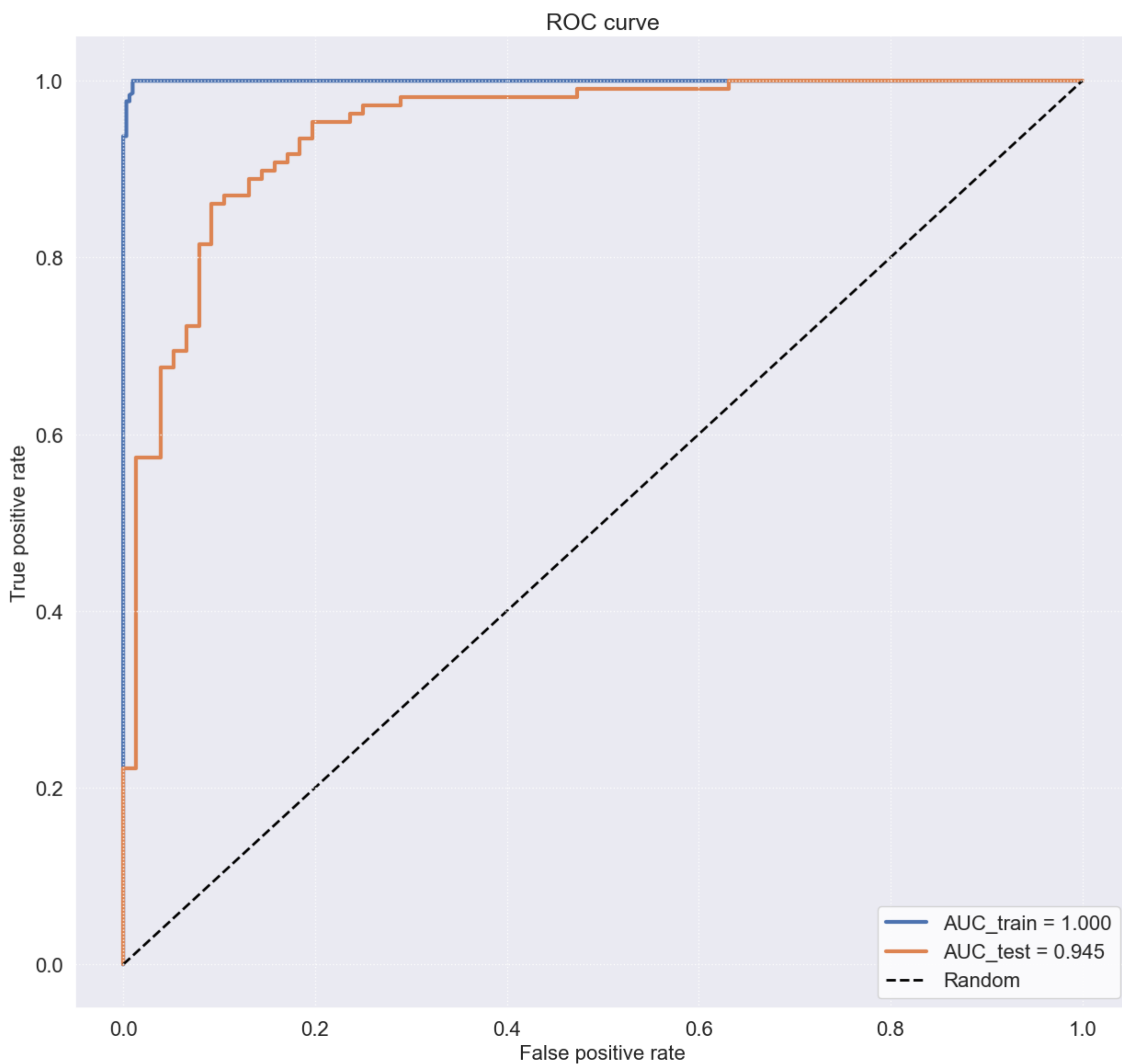
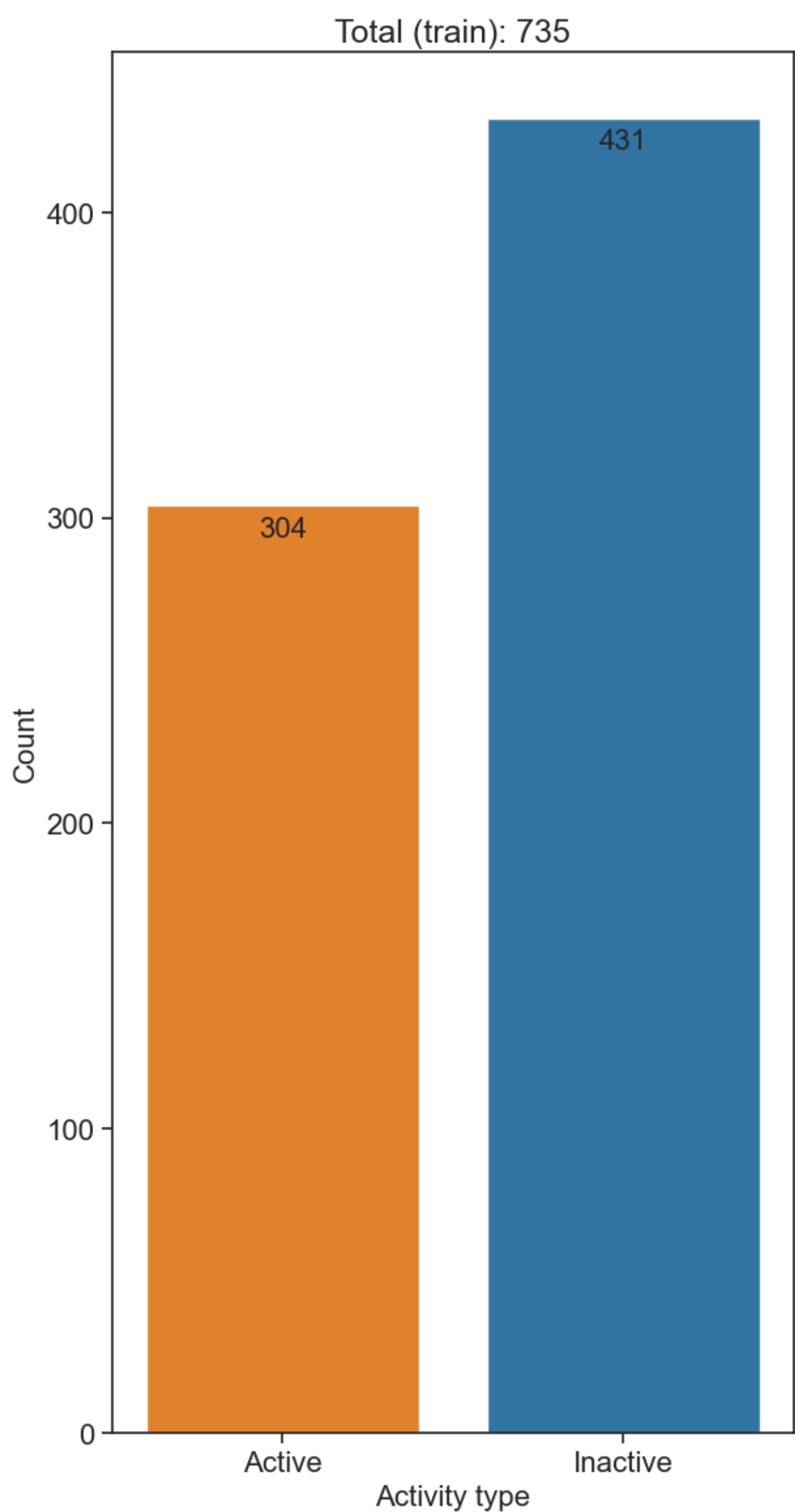
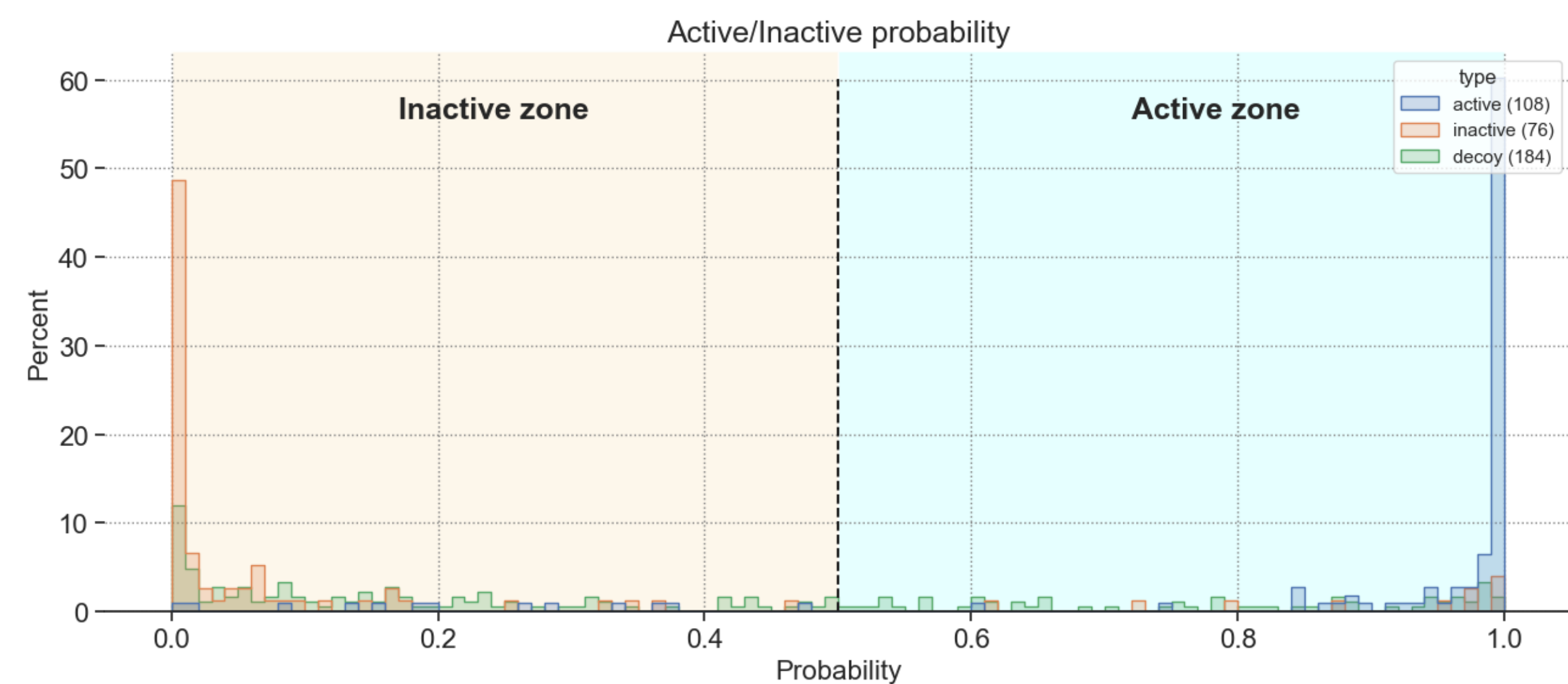
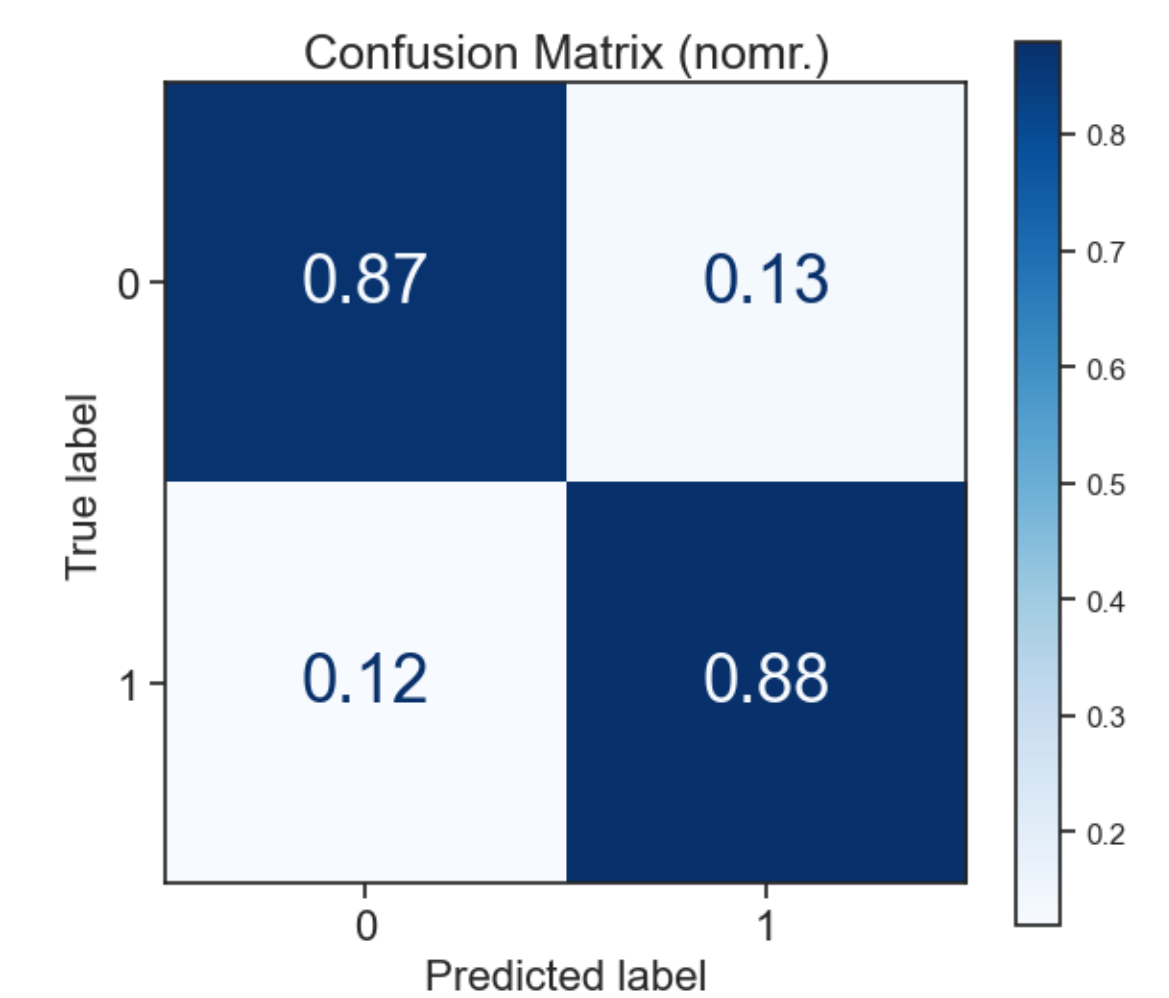
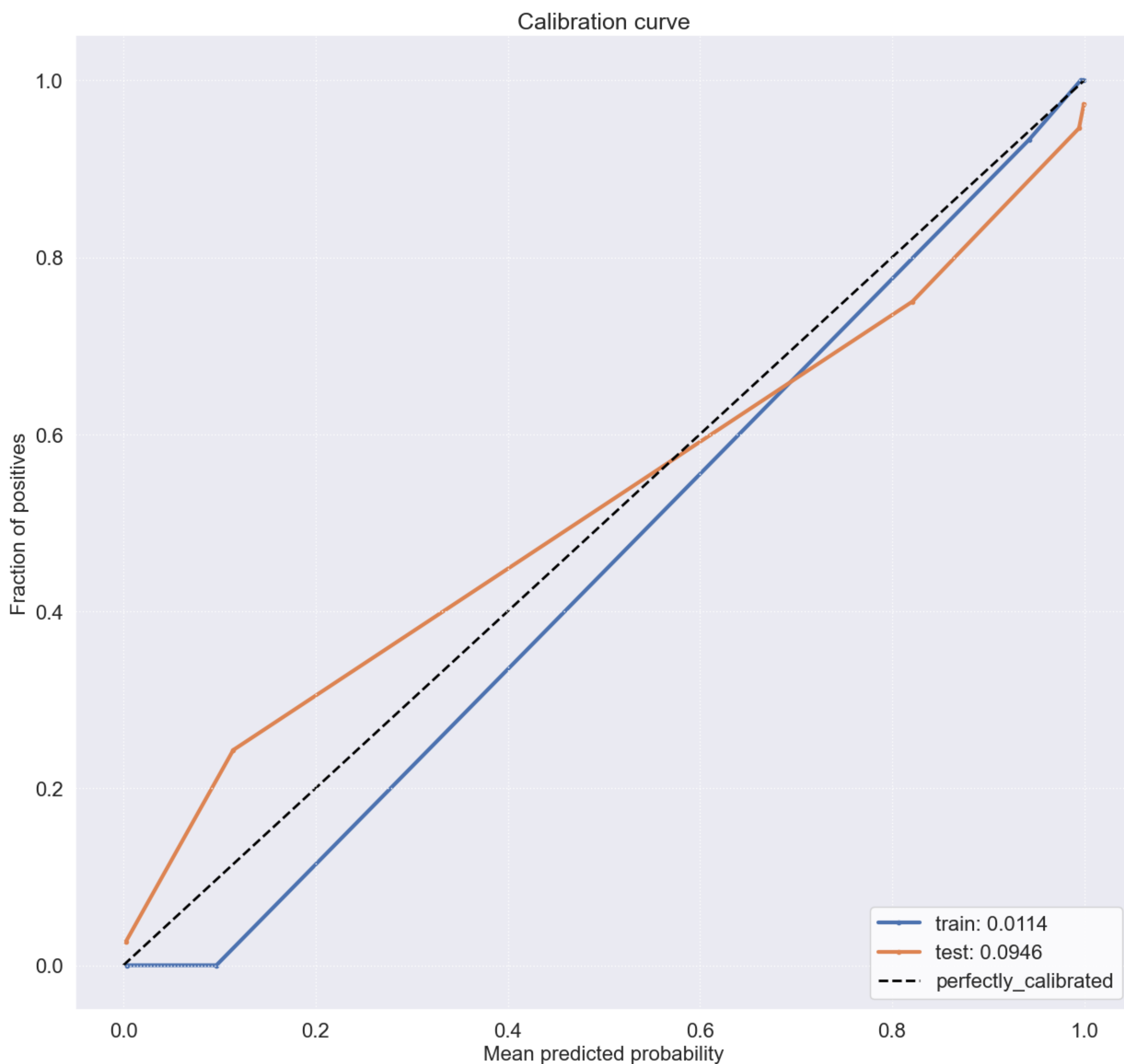
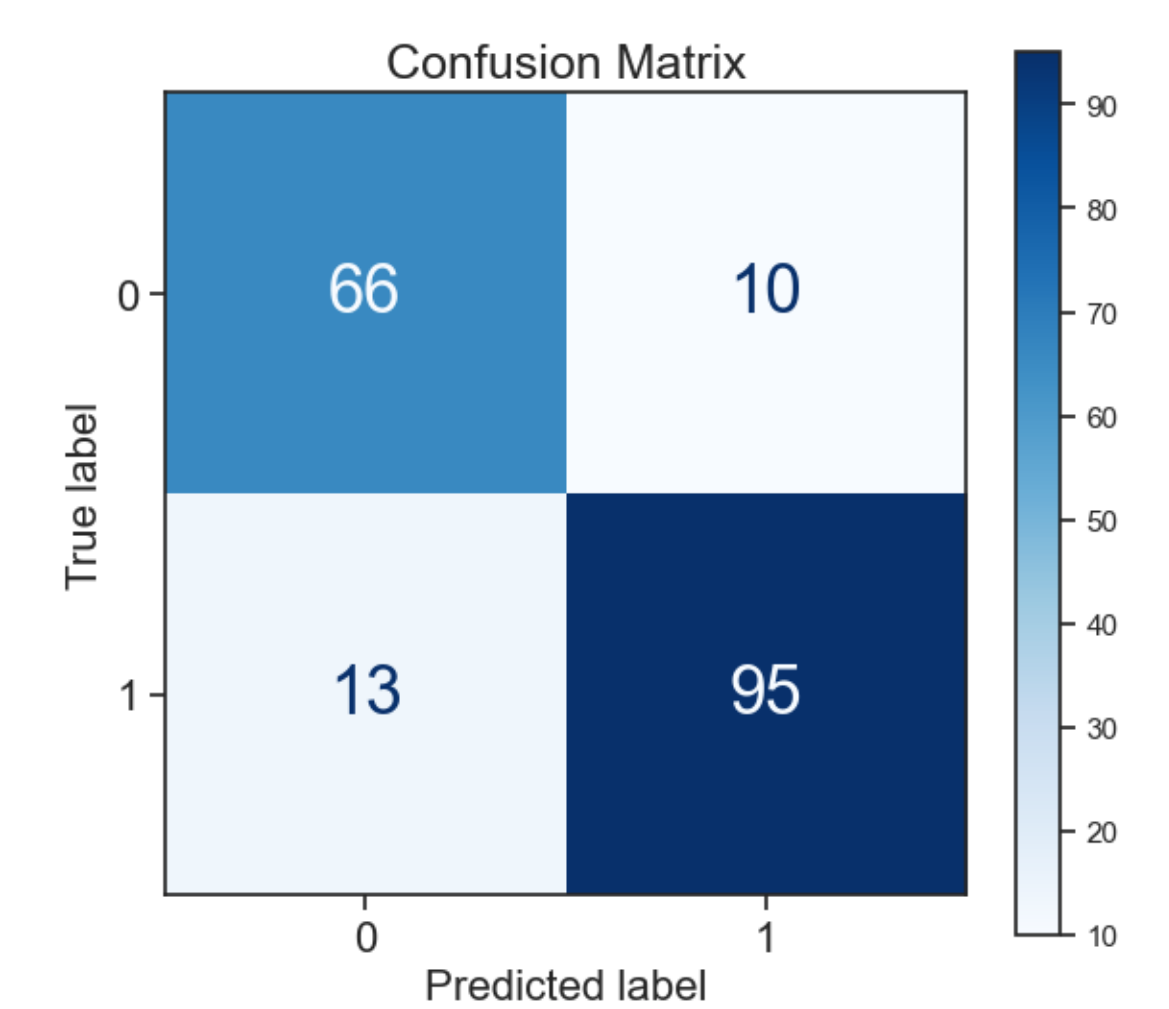


Protein: P17787 - metric: balanced\_accuracy



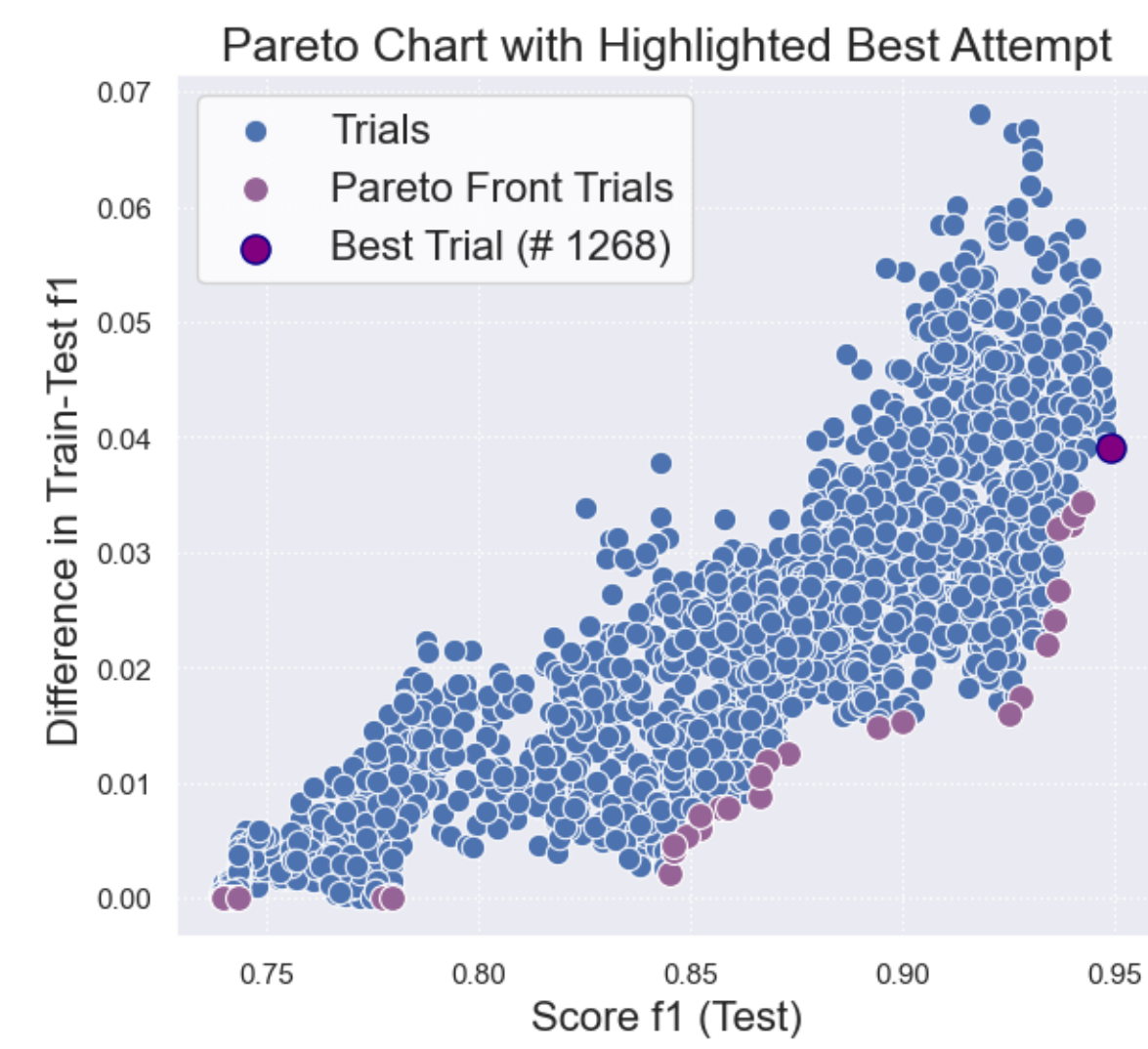
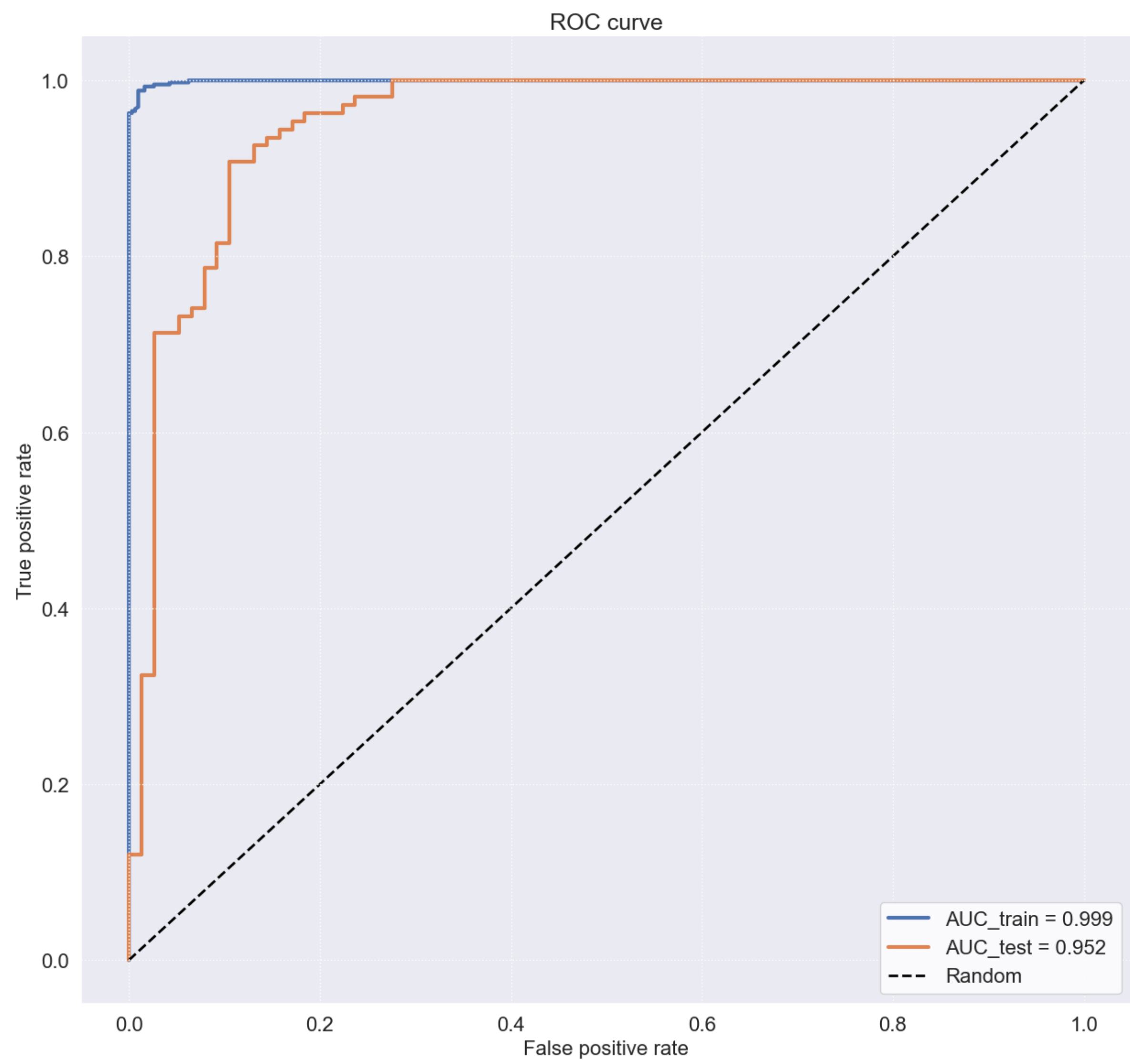
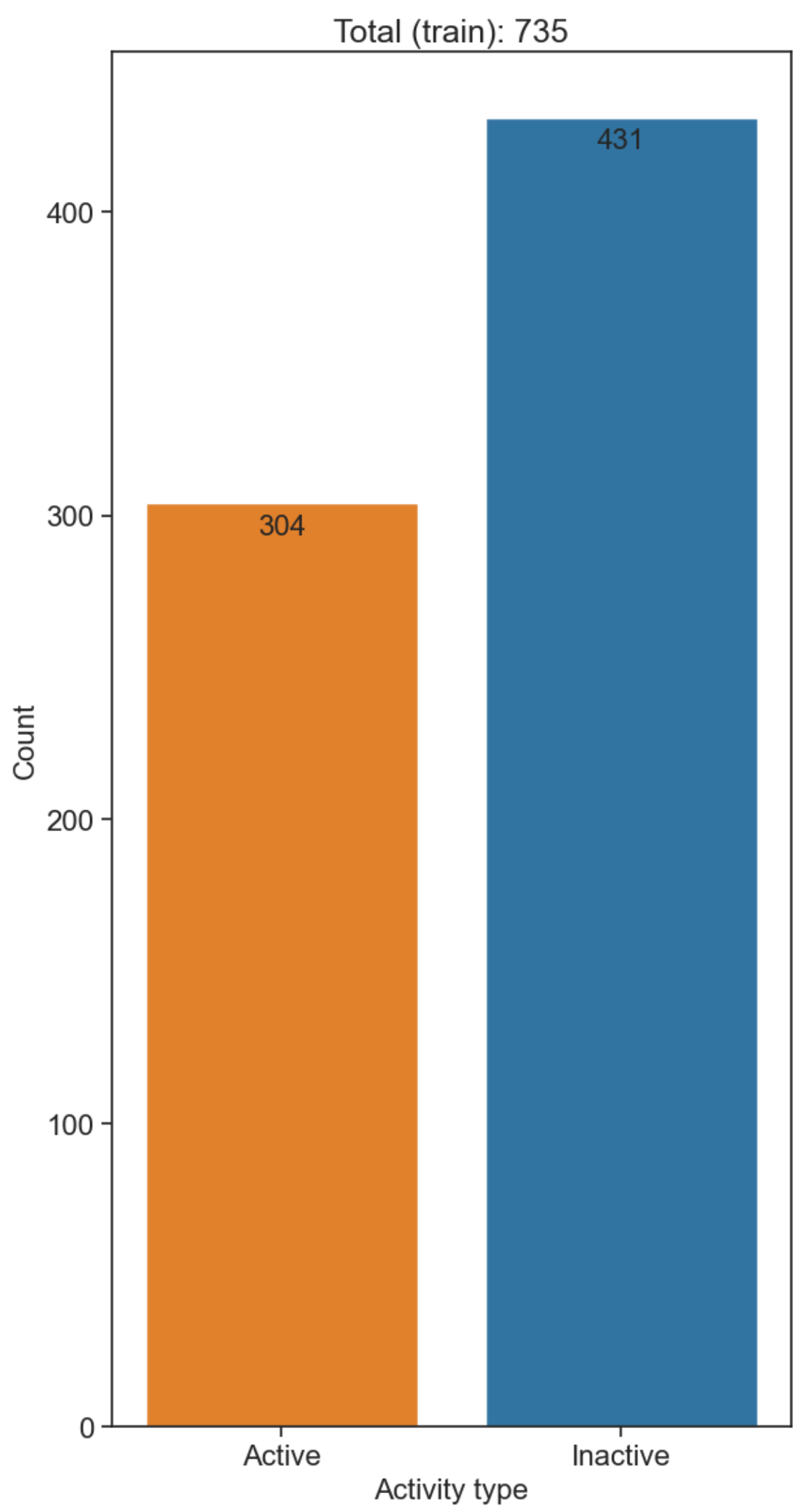
XGBoost Parameters	Value
alpha	1.156
colsample_bytree	0.7552
gamma	0.6145
lambda	4.4763
learning_rate	0.4016
max_depth	7.0
min_child_weight	3.0
n_estimators	570.0
reg_alpha	0.0768
reg_lambda	0.0845
scale_pos_weight	3.7877
subsample	0.8502



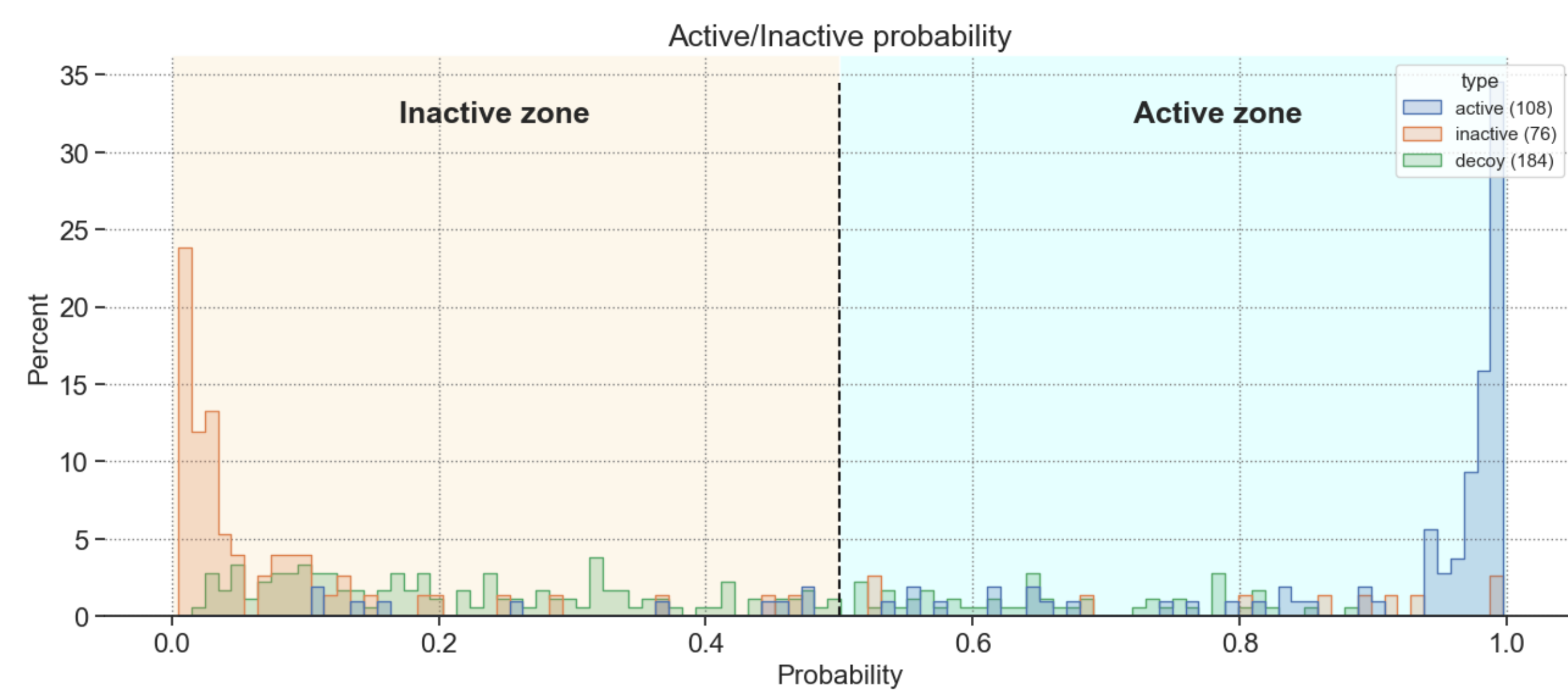
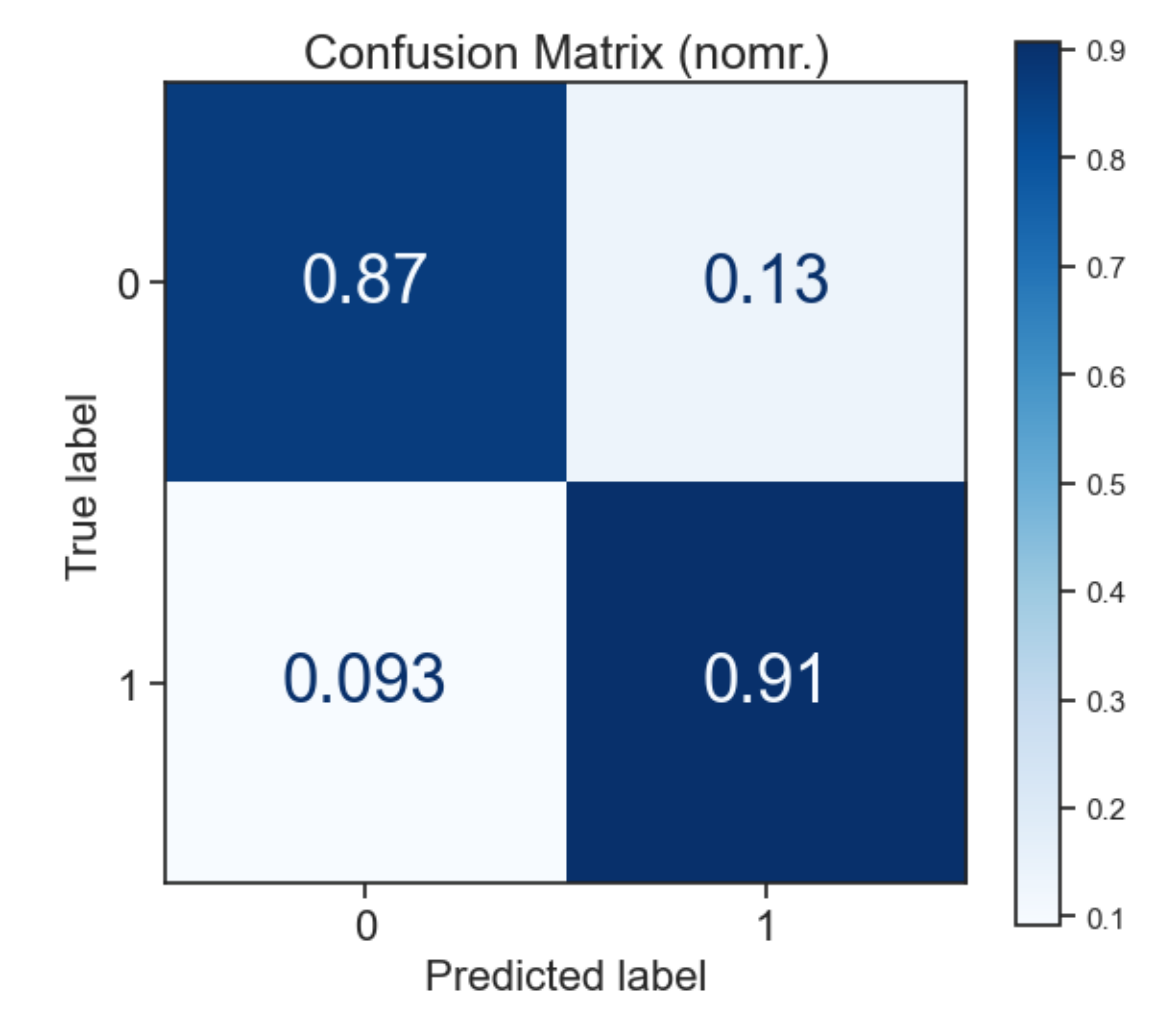
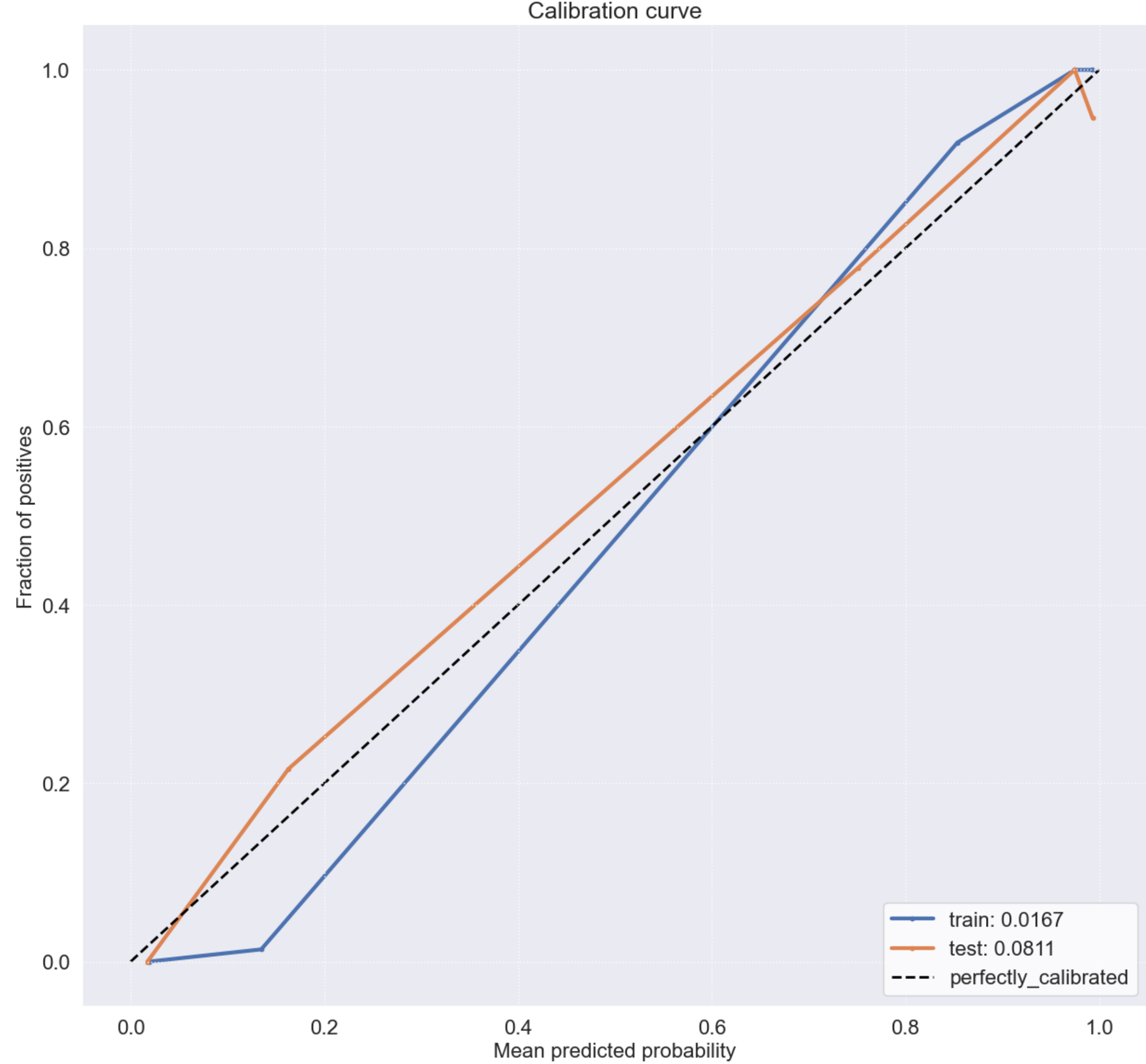
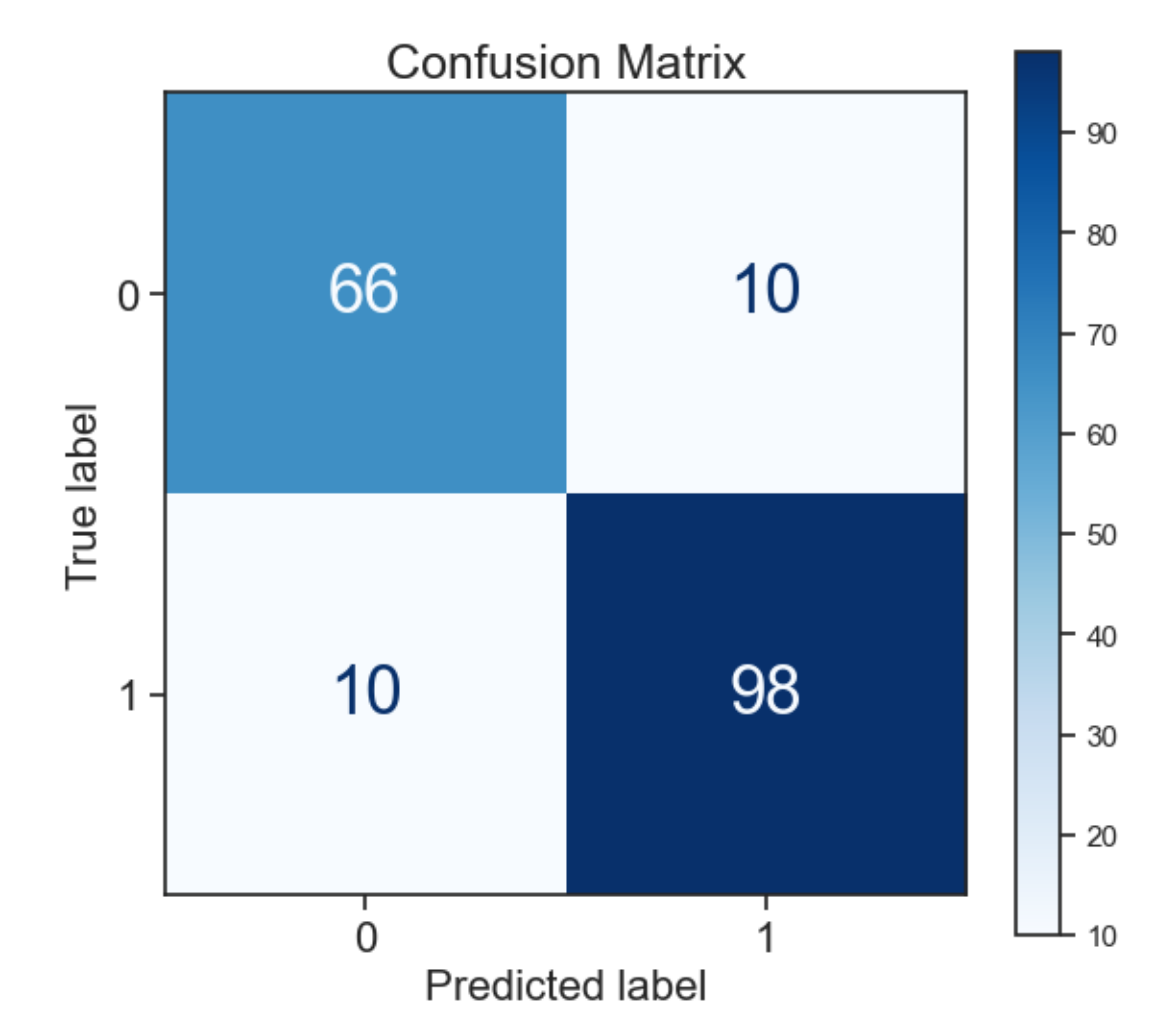
Metric	Train	Test
AUC	0.9997	0.9447
accuracy	0.9864	0.875
balanced accuracy	0.9836	0.874
recall_(sens)	1.0	0.8796
specificity	0.9671	0.8684
precision	0.9773	0.9048
f1_score	0.9864	0.8753



Protein: P17787 - metric: f1



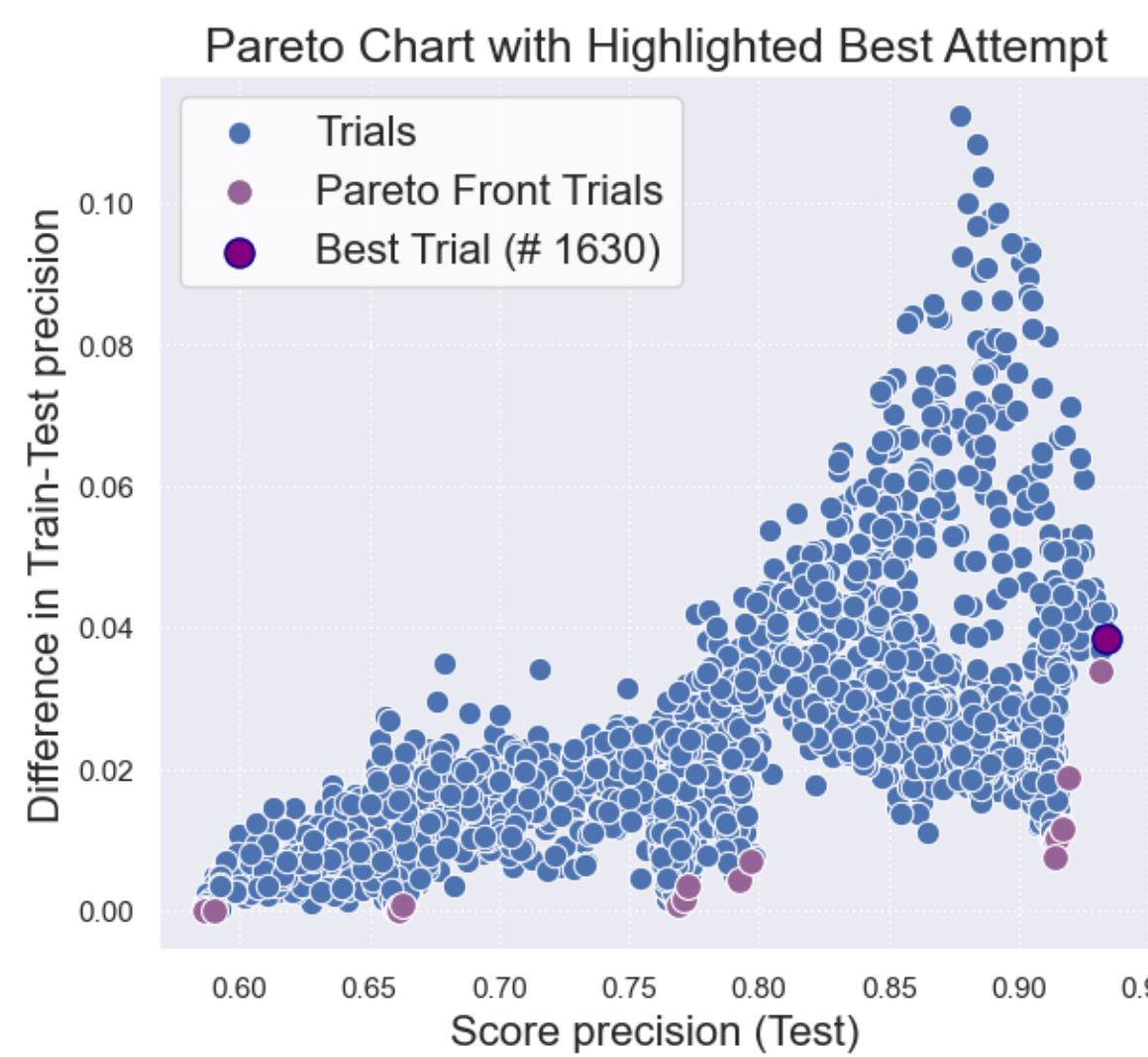
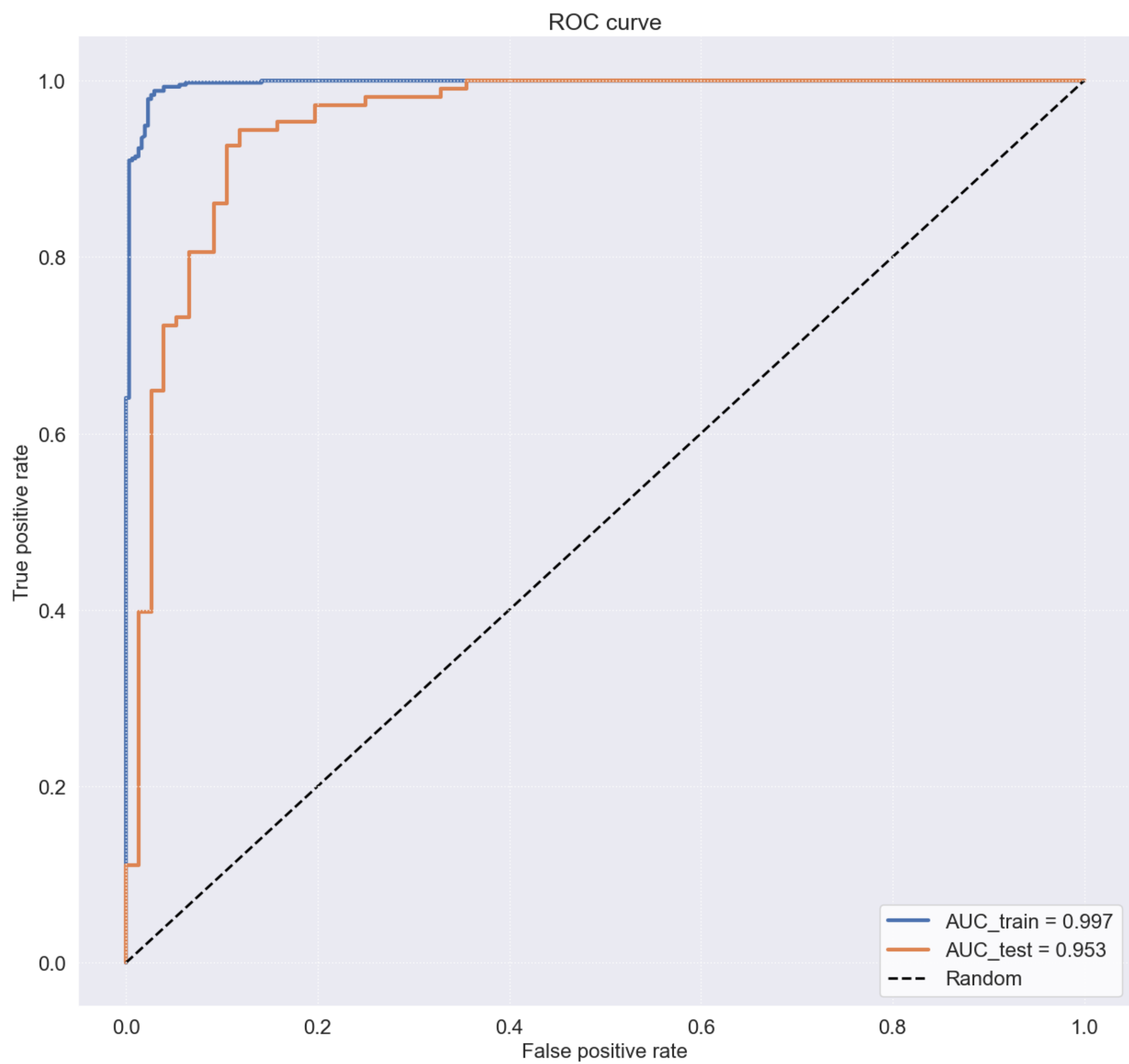
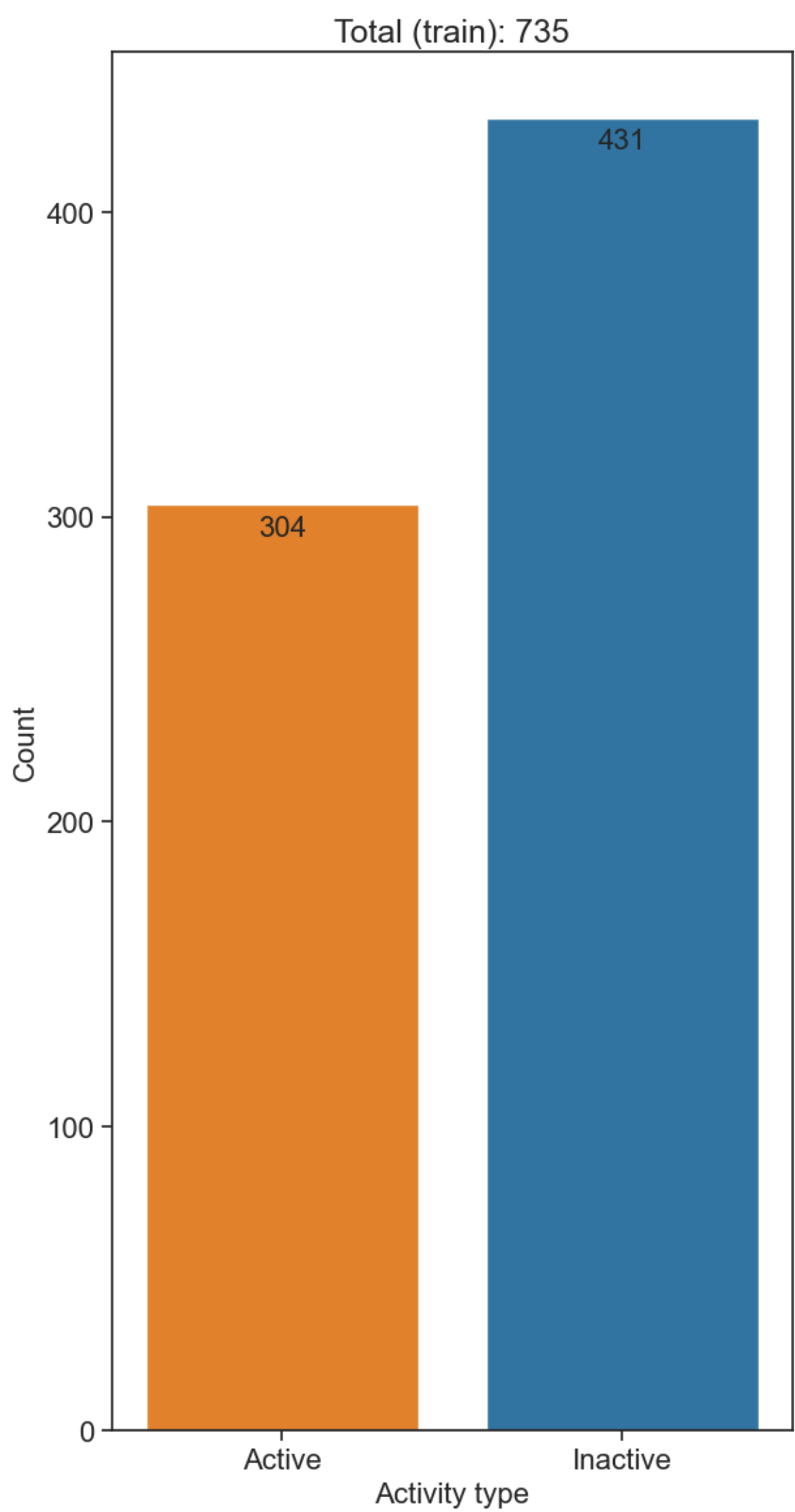
XGBoost Parameters	Value
alpha	4.9843
colsample_bytree	0.7821
gamma	0.0217
lambda	2.419
learning_rate	0.0352
max_depth	10.0
min_child_weight	1.0
n_estimators	266.0
reg_alpha	0.9045
reg_lambda	0.6381
scale_pos_weight	1.2428
subsample	0.7009



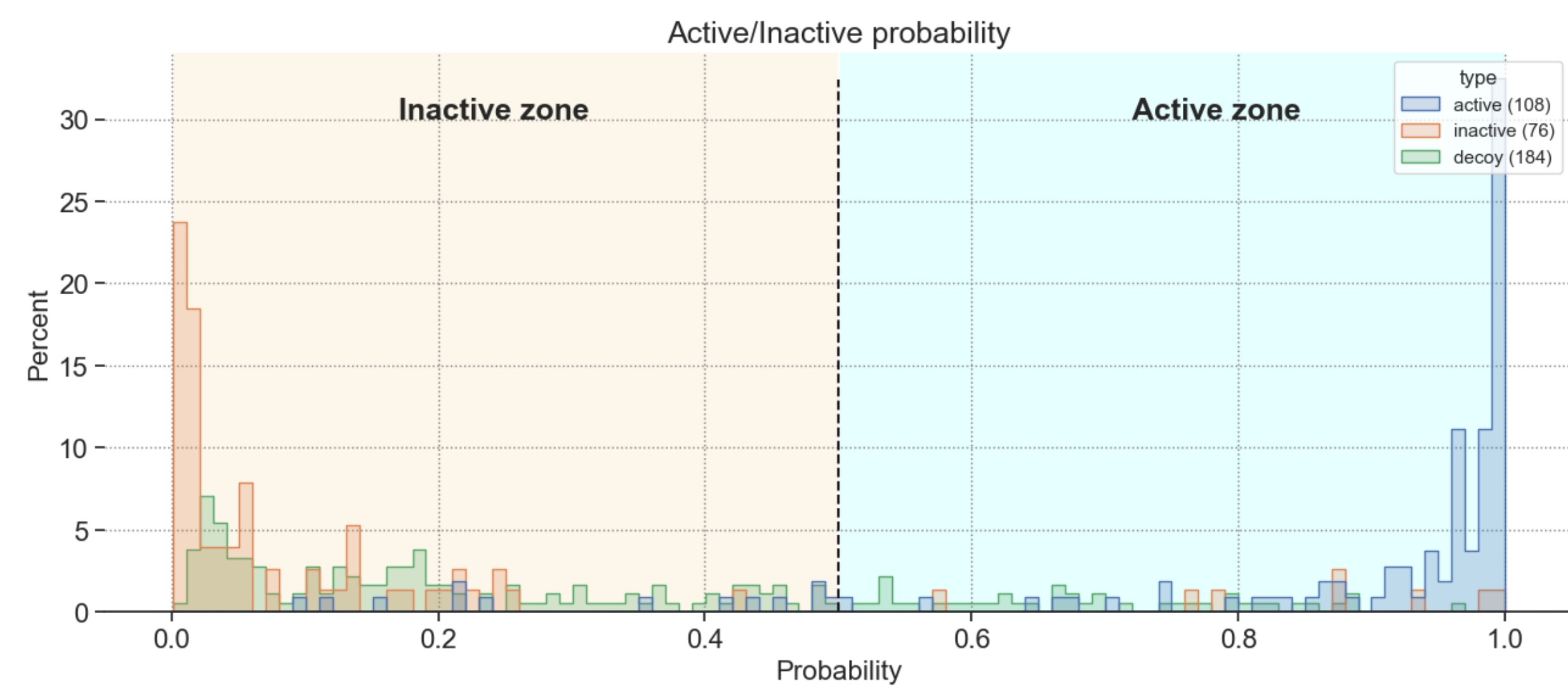
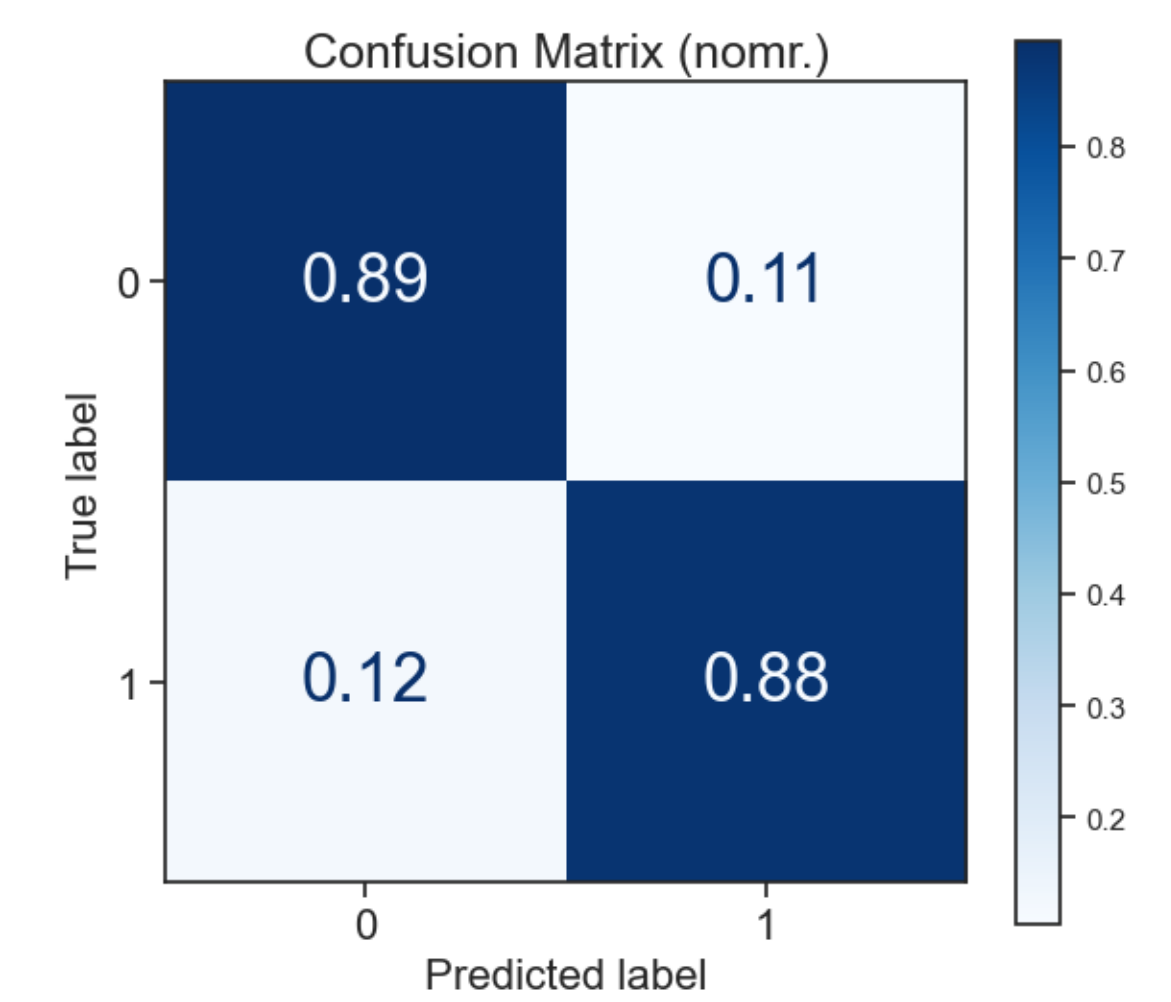
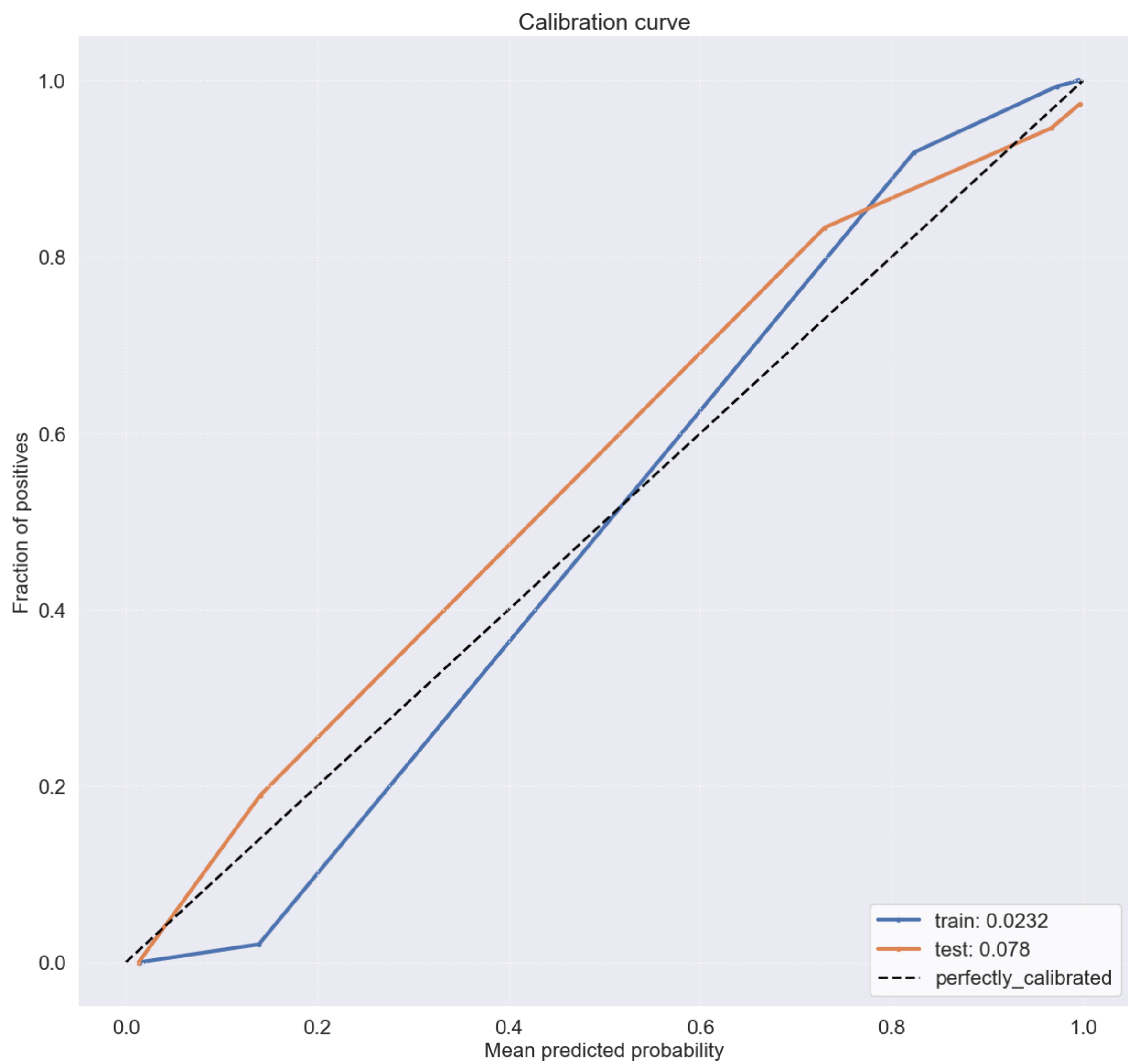
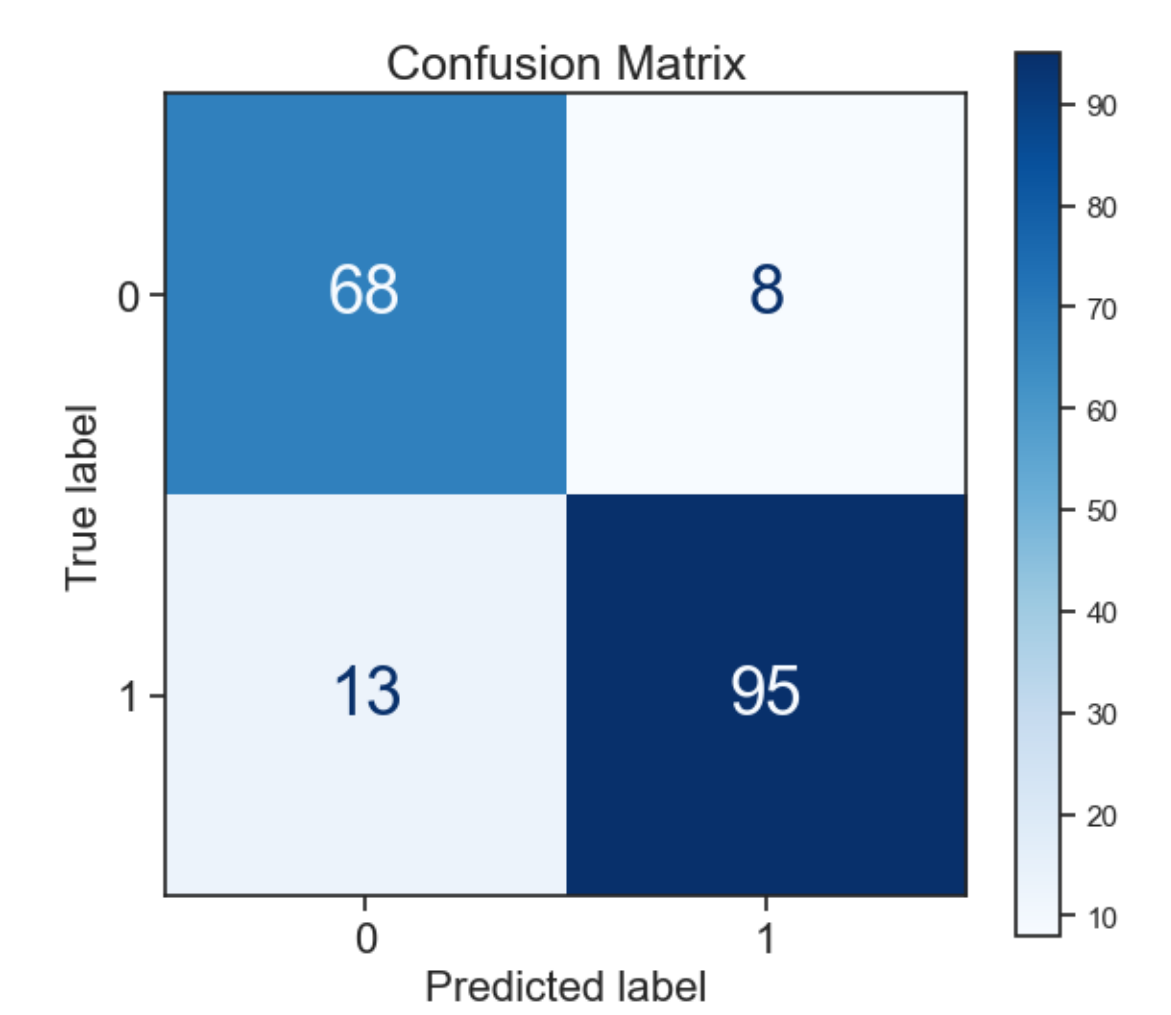
Metric	Train	Test
AUC	0.9994	0.9516
accuracy	0.985	0.8913
balanced accuracy	0.9829	0.8879
recall_(sens)	0.9954	0.9074
specificity	0.9704	0.8684
precision	0.9795	0.9074
f1_score	0.985	0.8913



Protein: P17787 - metric: precision



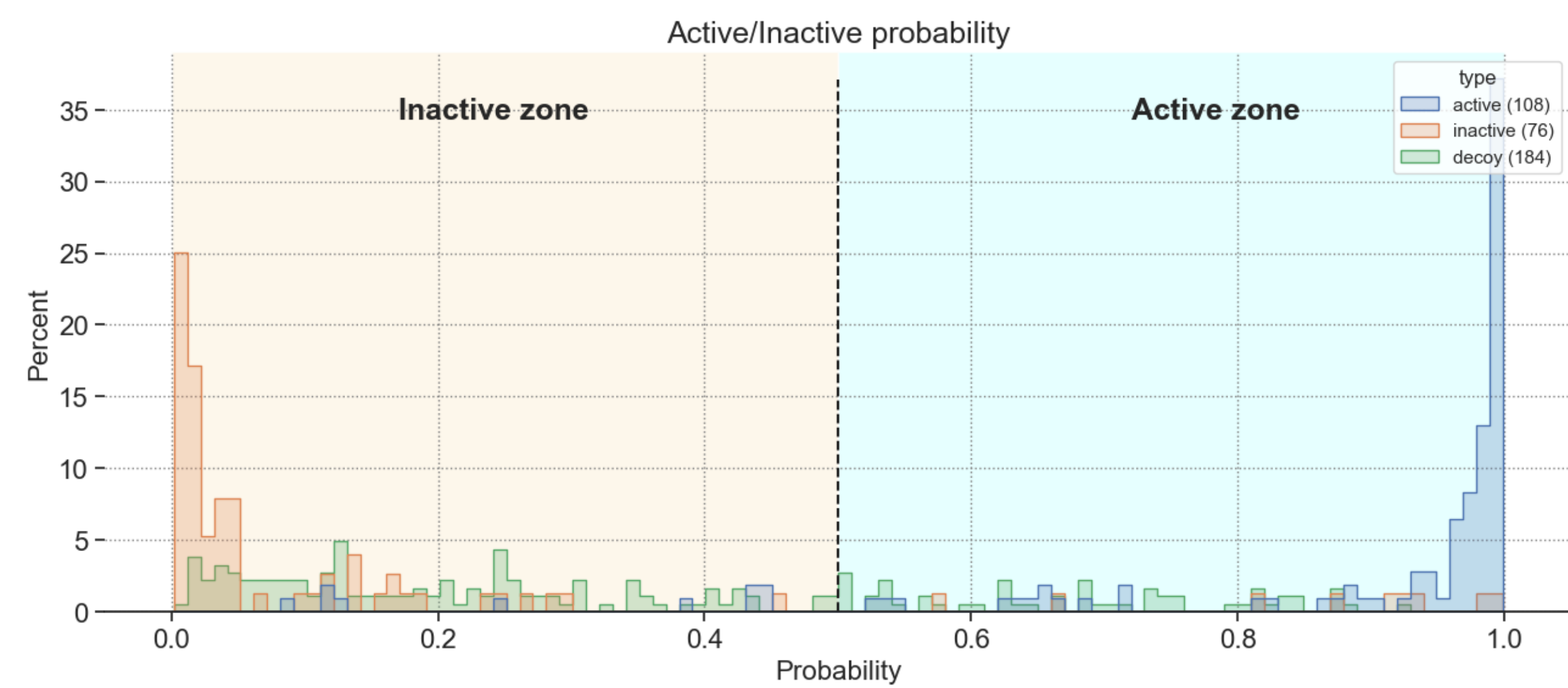
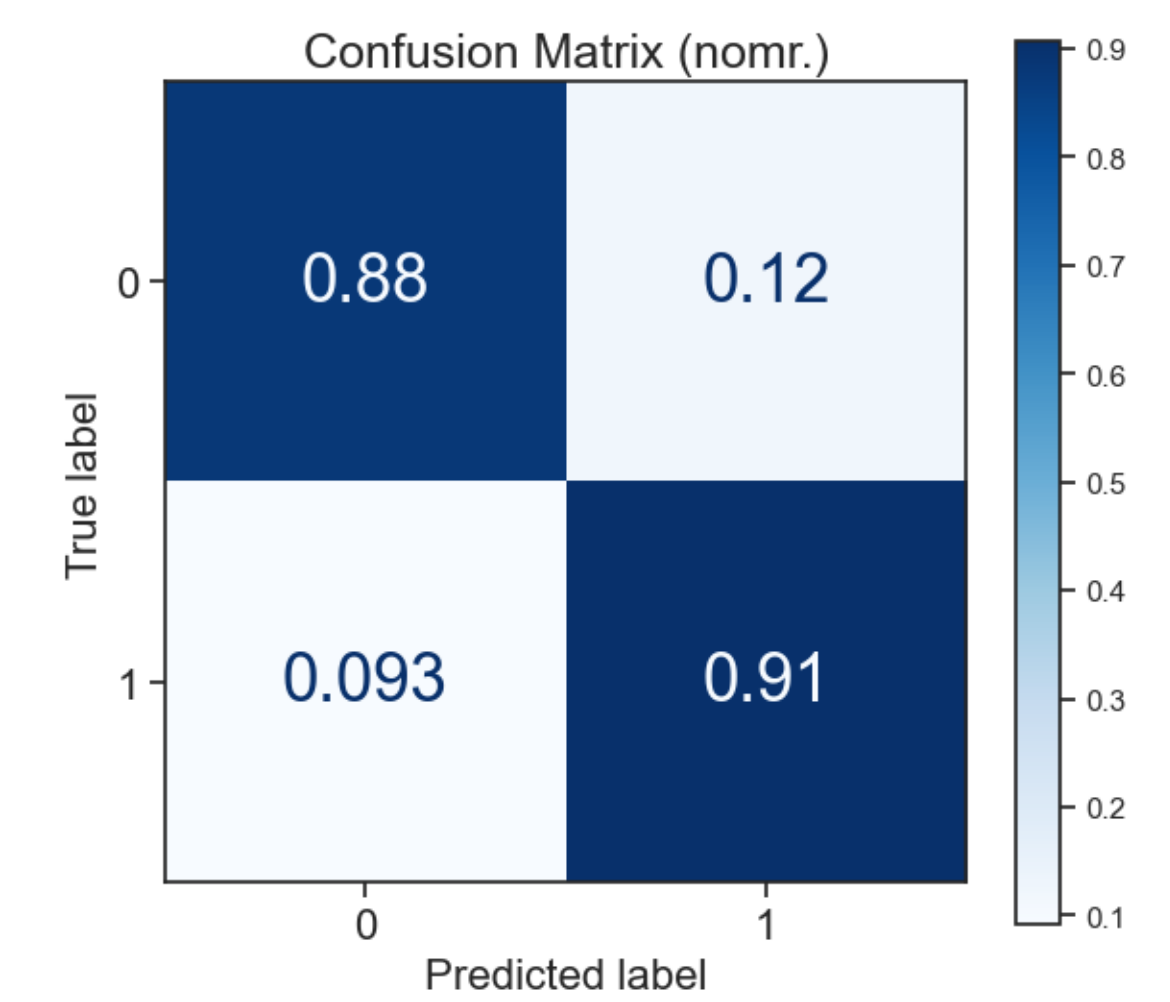
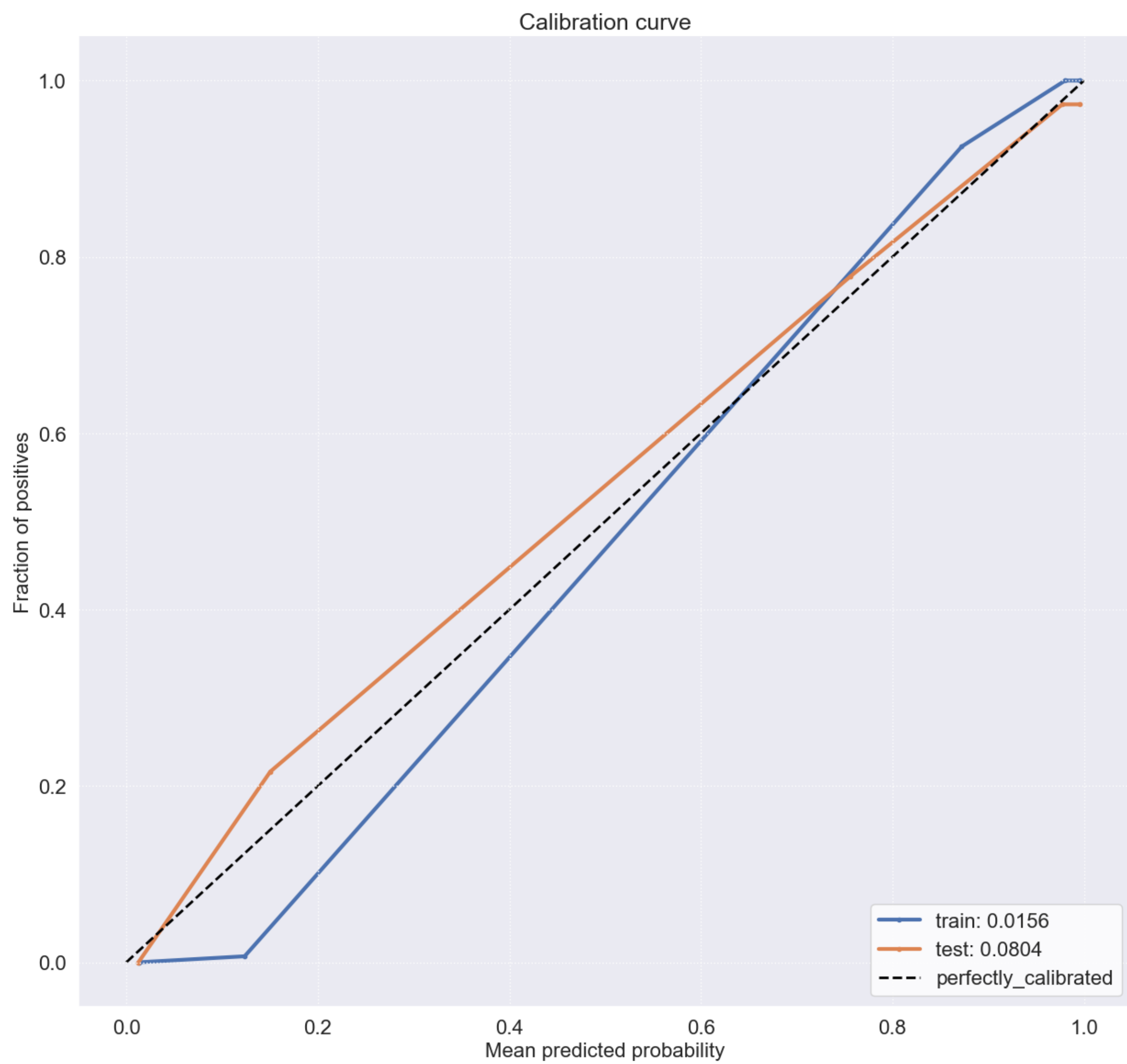
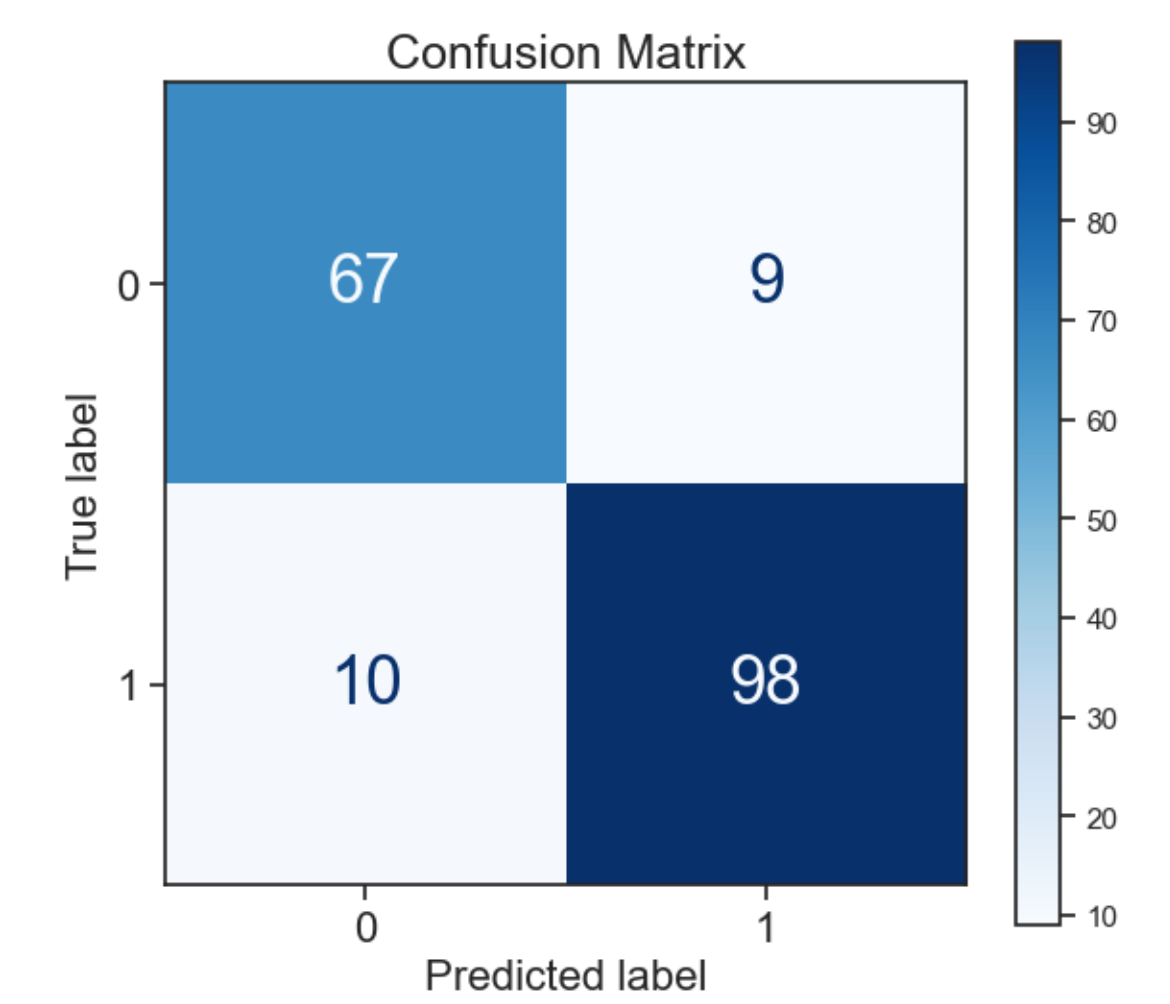
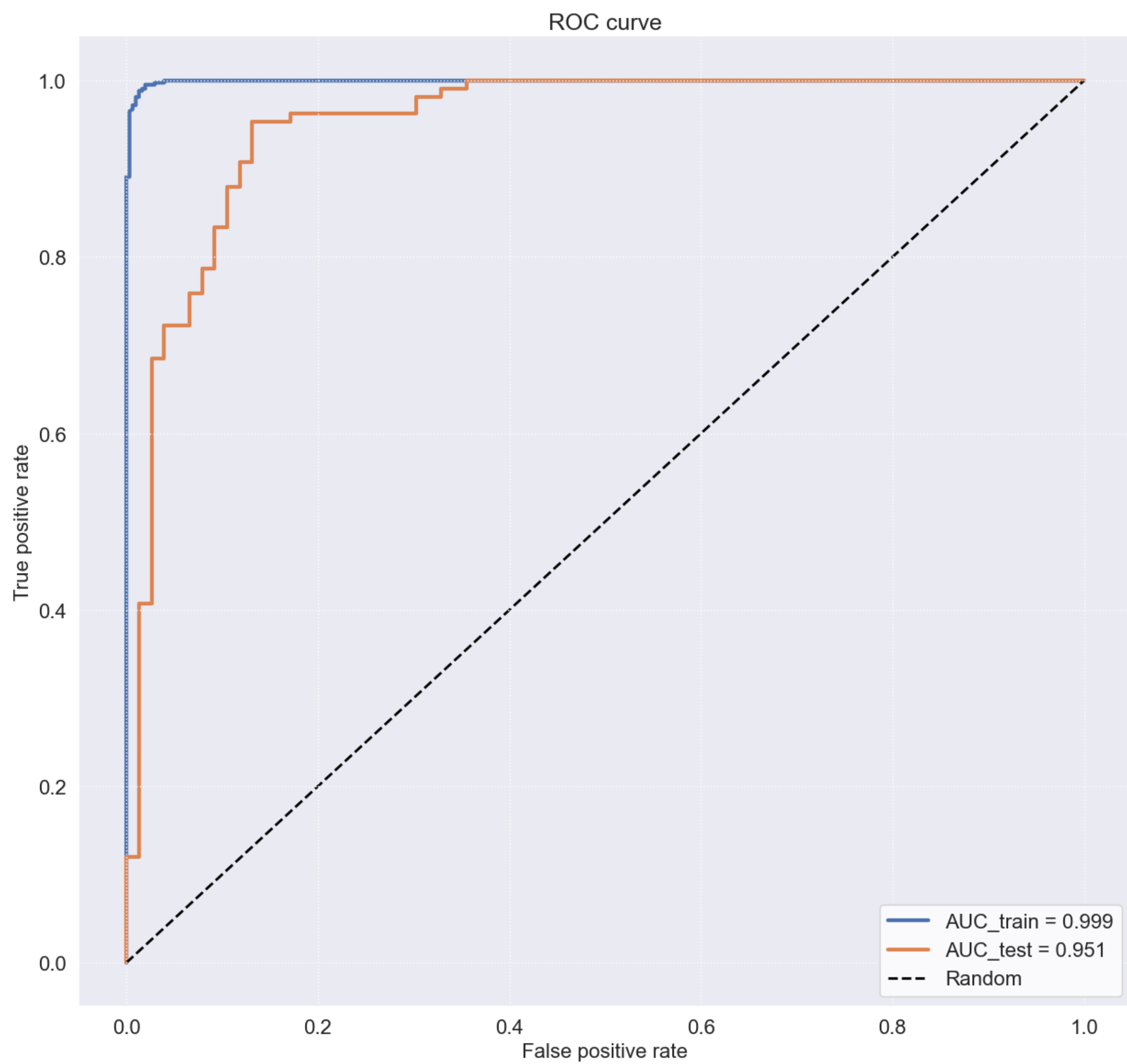
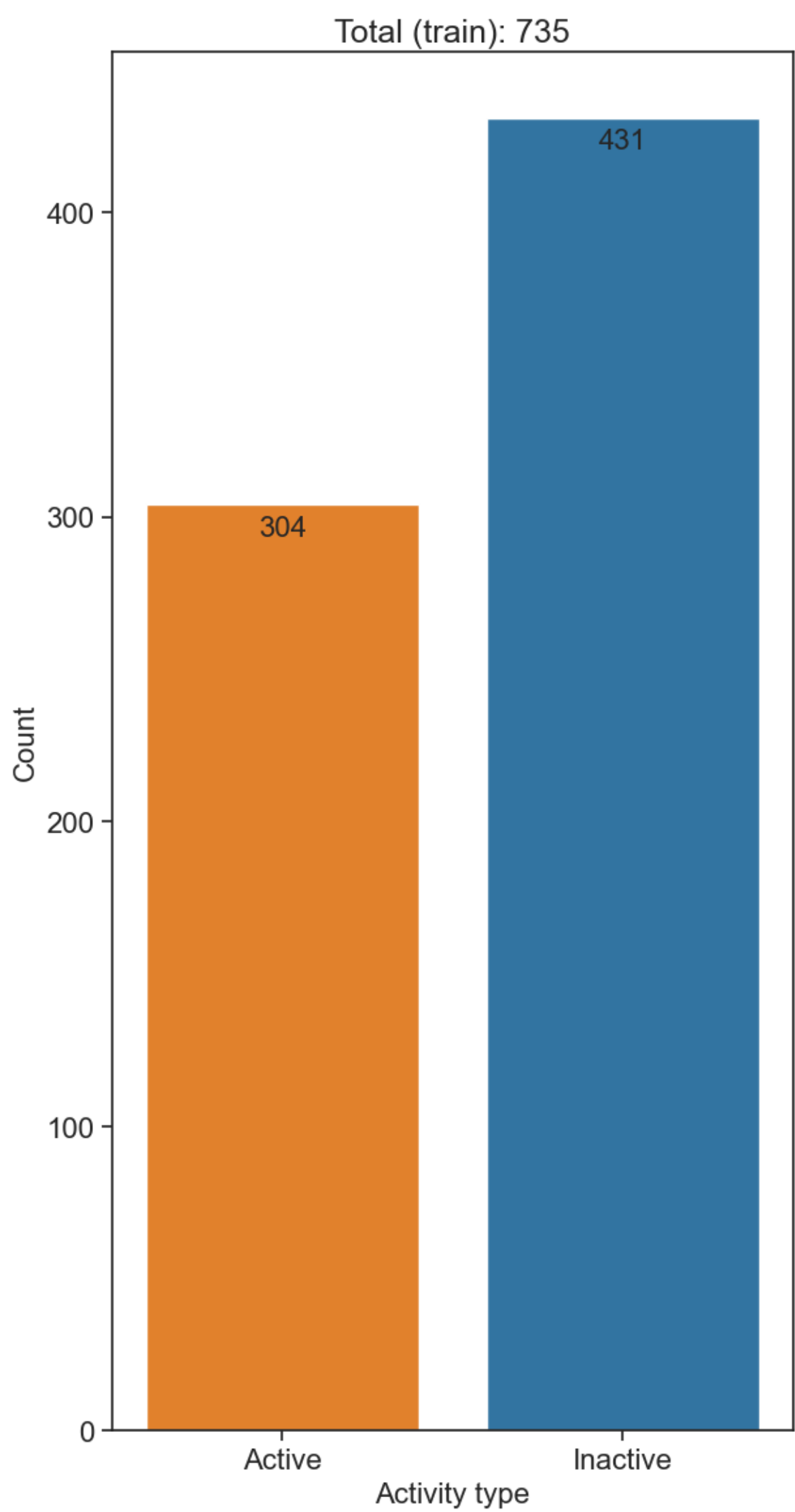
XGBoost Parameters	Value
alpha	4.4523
colsample_bytree	0.6271
gamma	0.0387
lambda	4.4874
learning_rate	0.0552
max_depth	3.0
min_child_weight	2.0
n_estimators	861.0
reg_alpha	0.5181
reg_lambda	0.6903
scale_pos_weight	1.0795
subsample	0.5406



Metric	Train	Test
AUC	0.9968	0.9535
accuracy	0.9796	0.8859
balanced accuracy	0.9778	0.8872
recall_(sens)	0.9884	0.8796
specificity	0.9671	0.8947
precision	0.9771	0.9223
f1_score	0.9796	0.8863



Protein: P17787 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9992	0.9508
accuracy	0.985	0.8967
balanced accuracy	0.9824	0.8945
recall_(sens)	0.9977	0.9074
specificity	0.9671	0.8816
precision	0.9773	0.9159
f1_score	0.985	0.8968