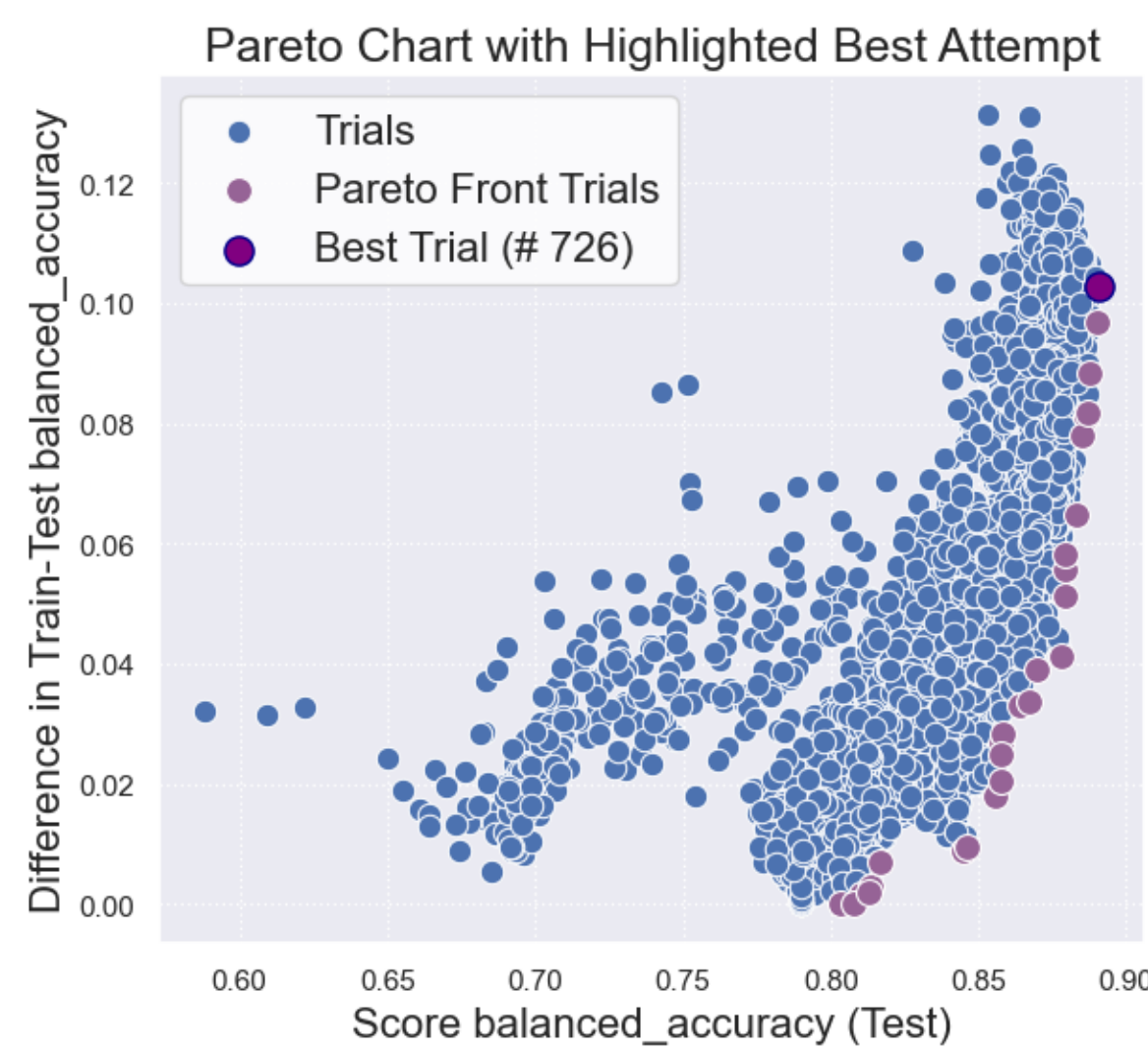
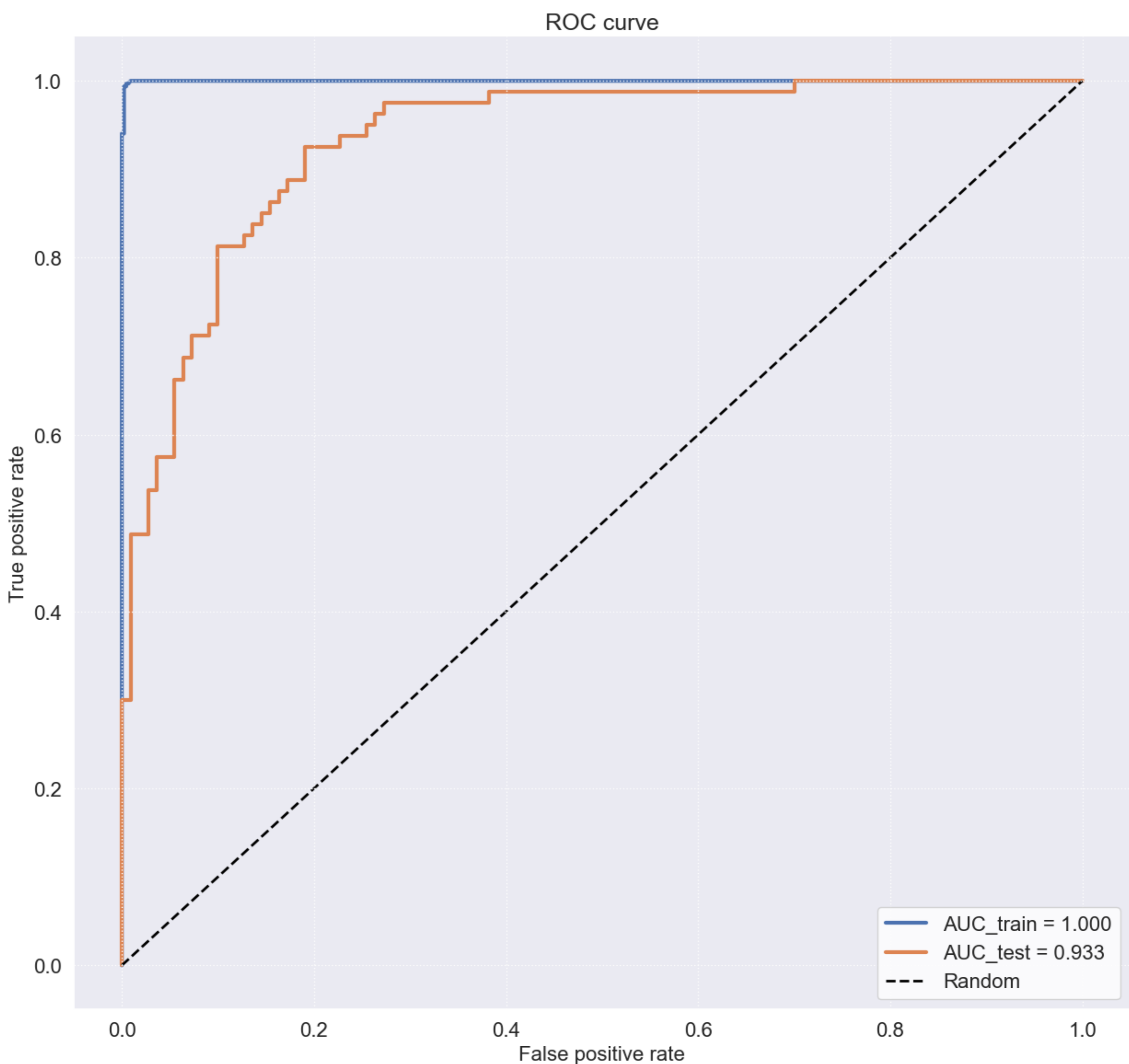
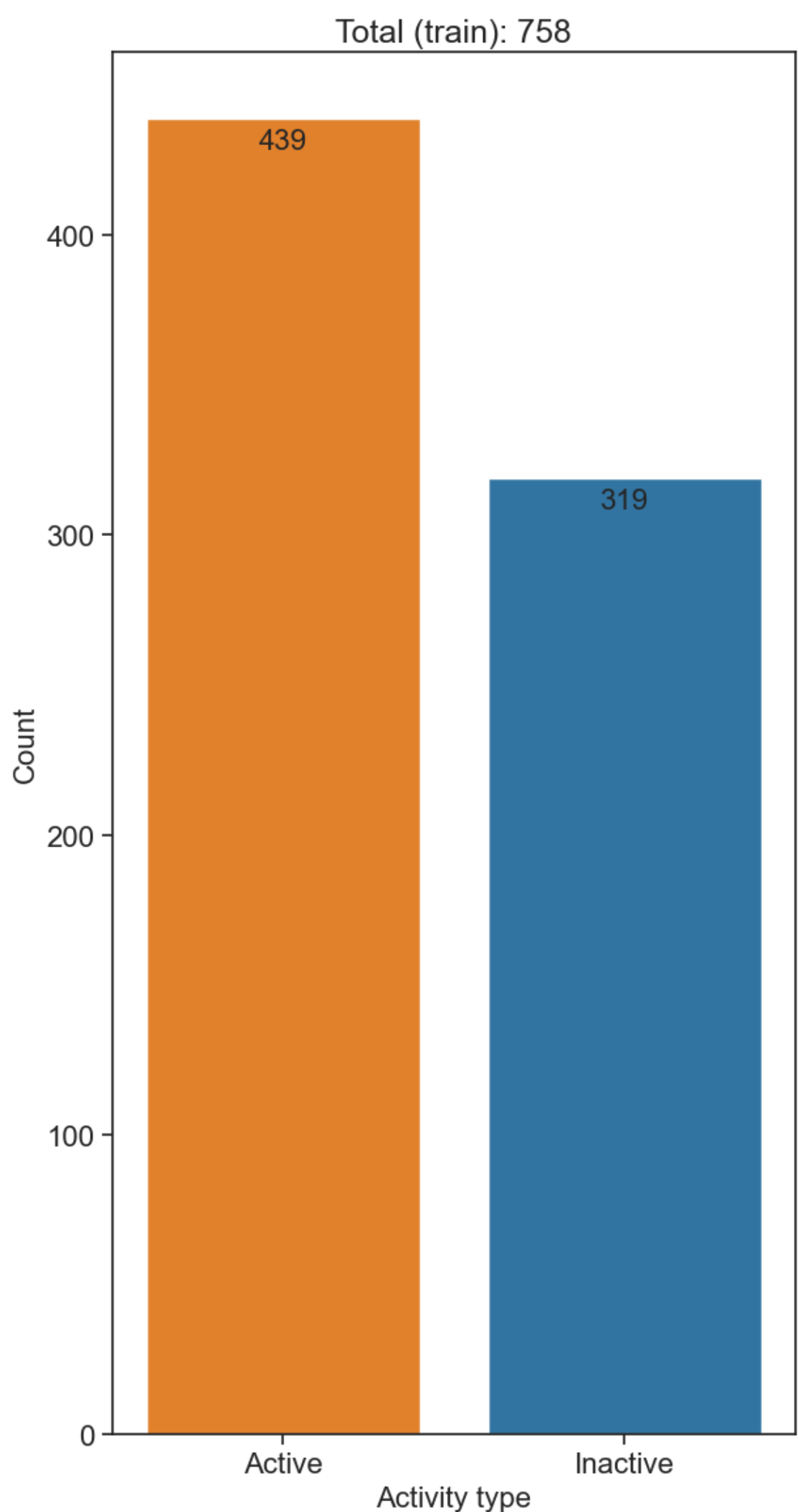
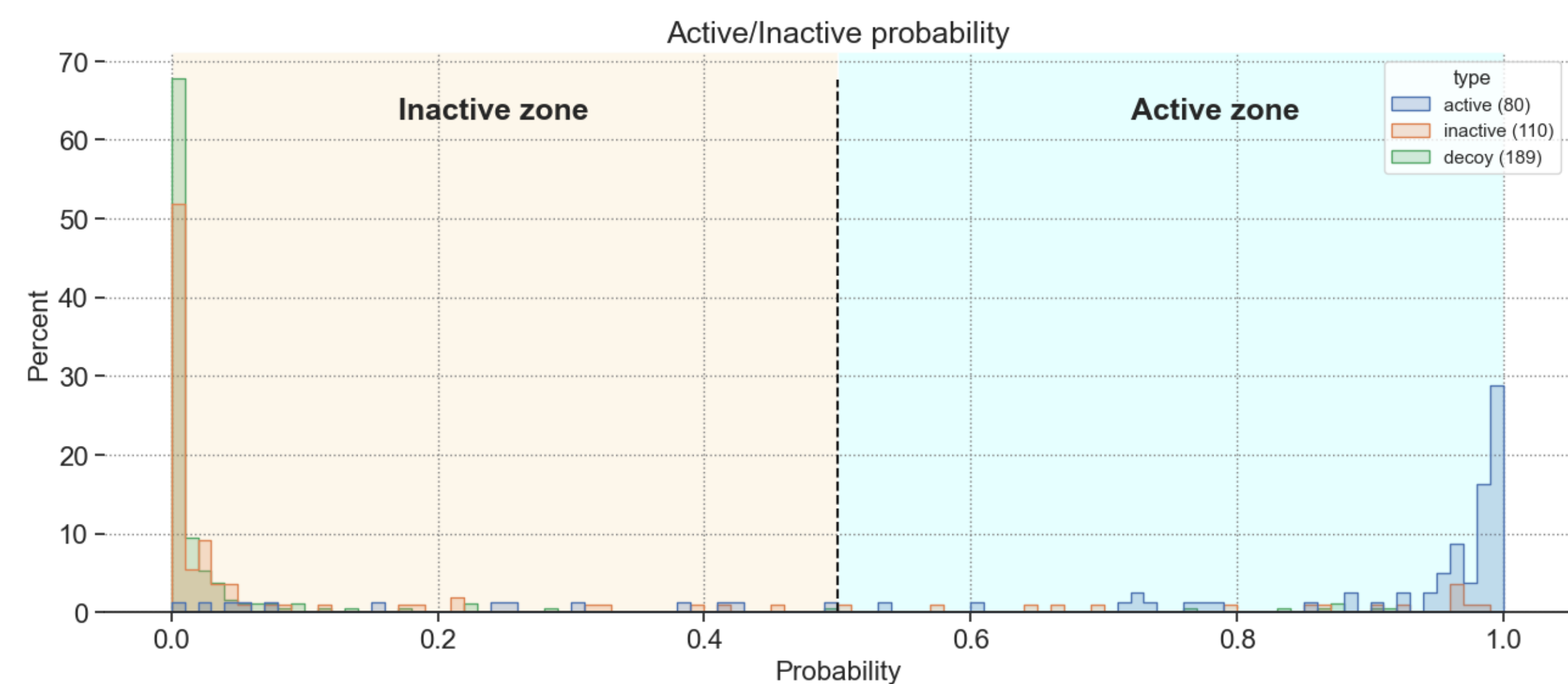
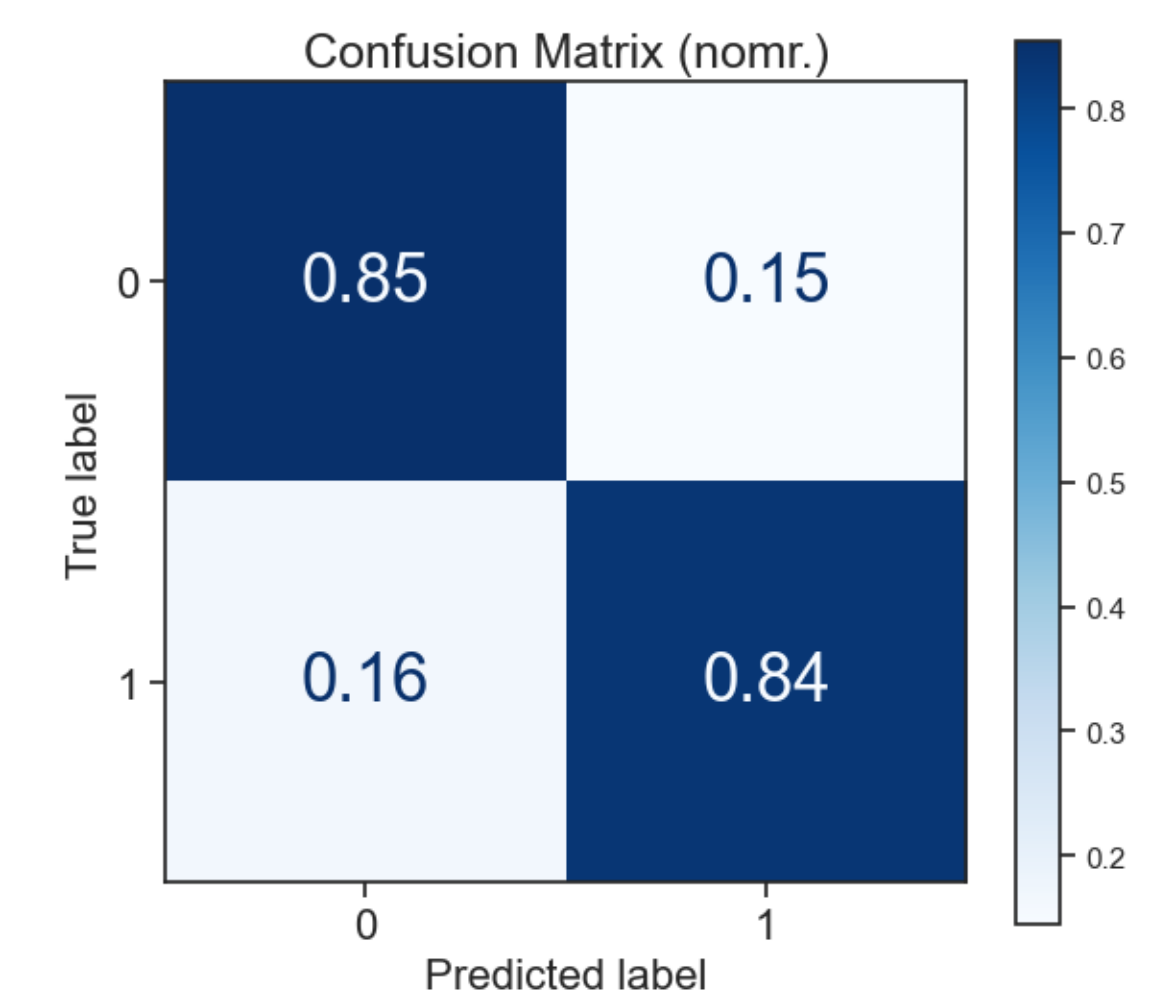
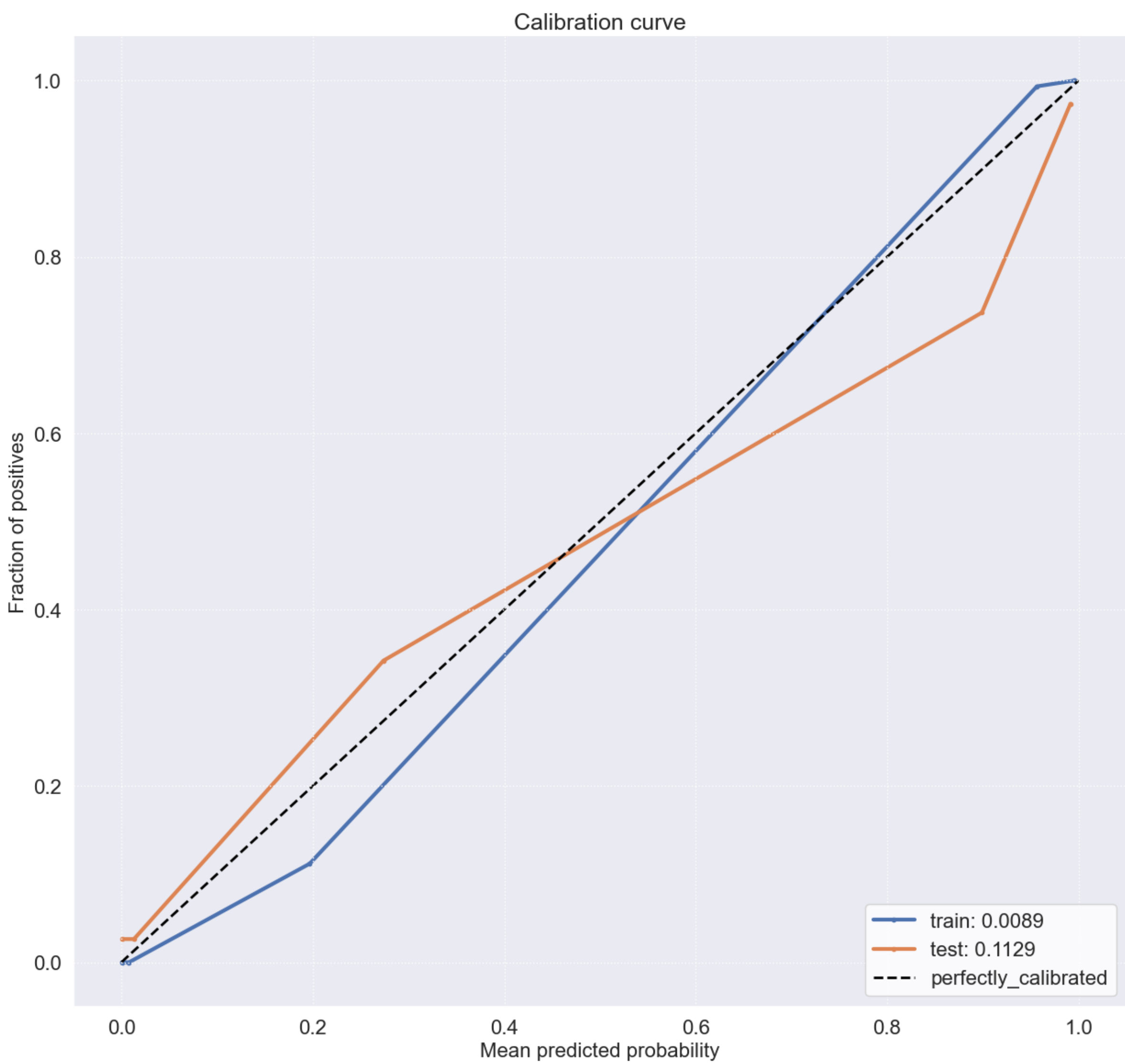
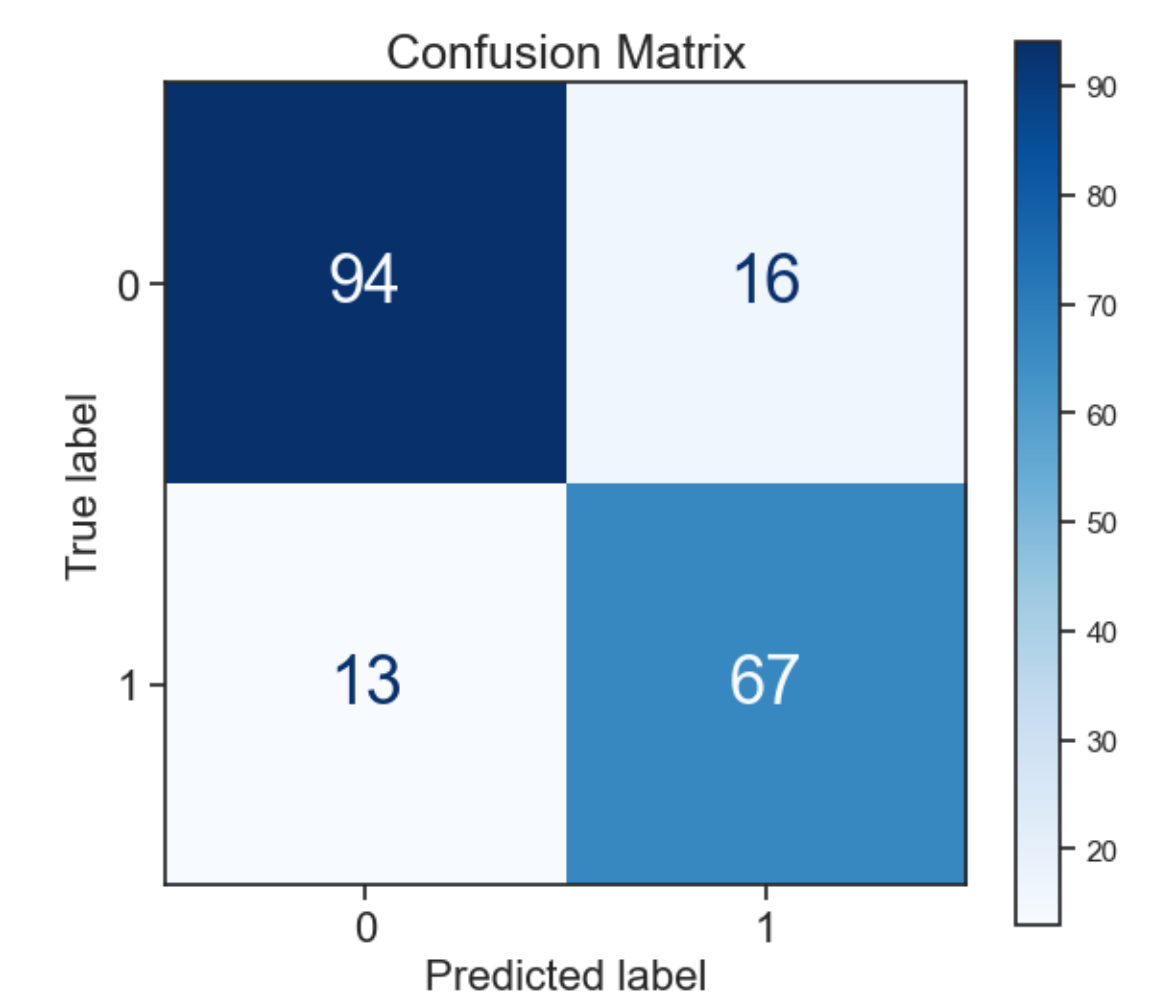


Protein: P22607 - metric: balanced\_accuracy



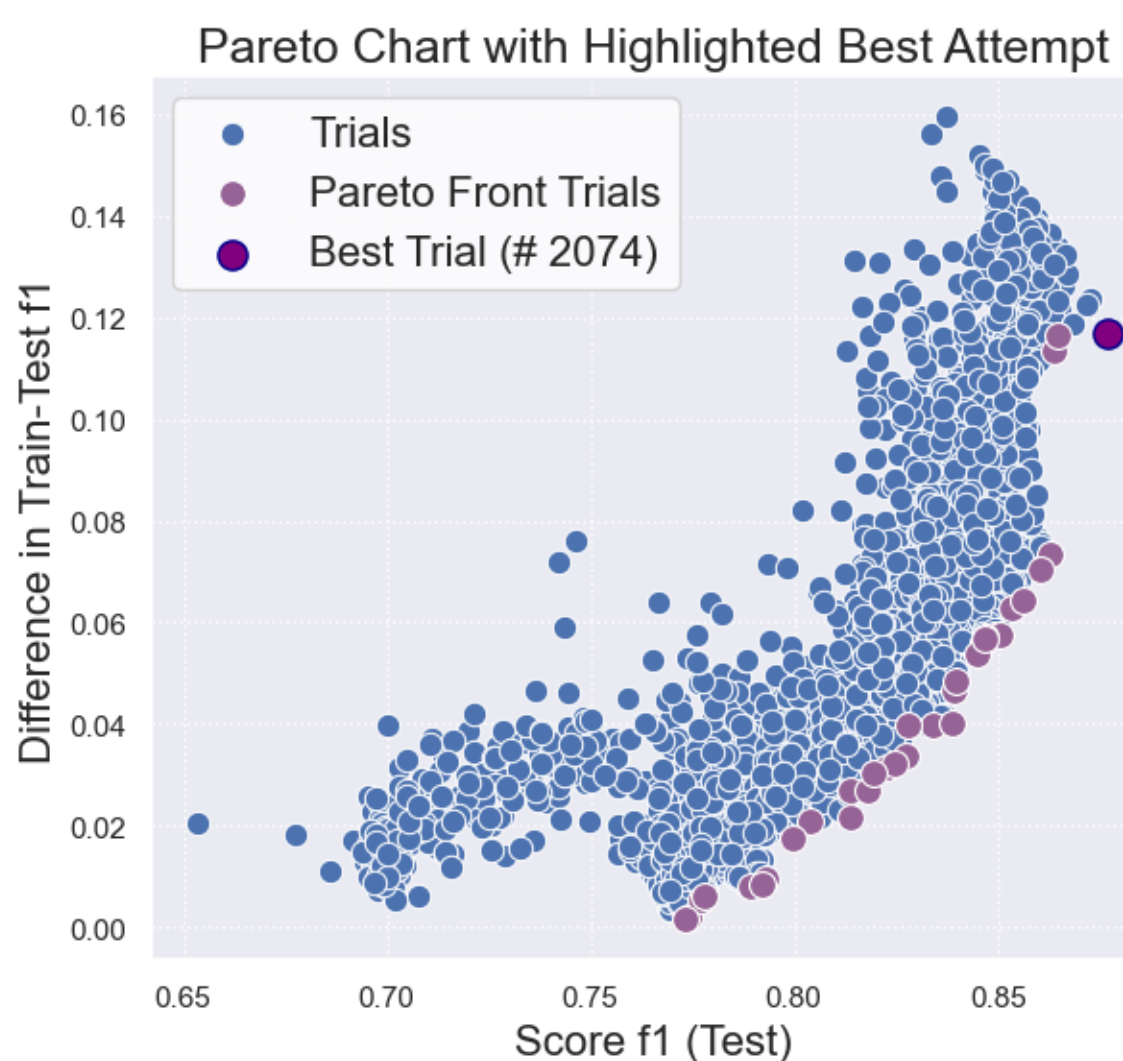
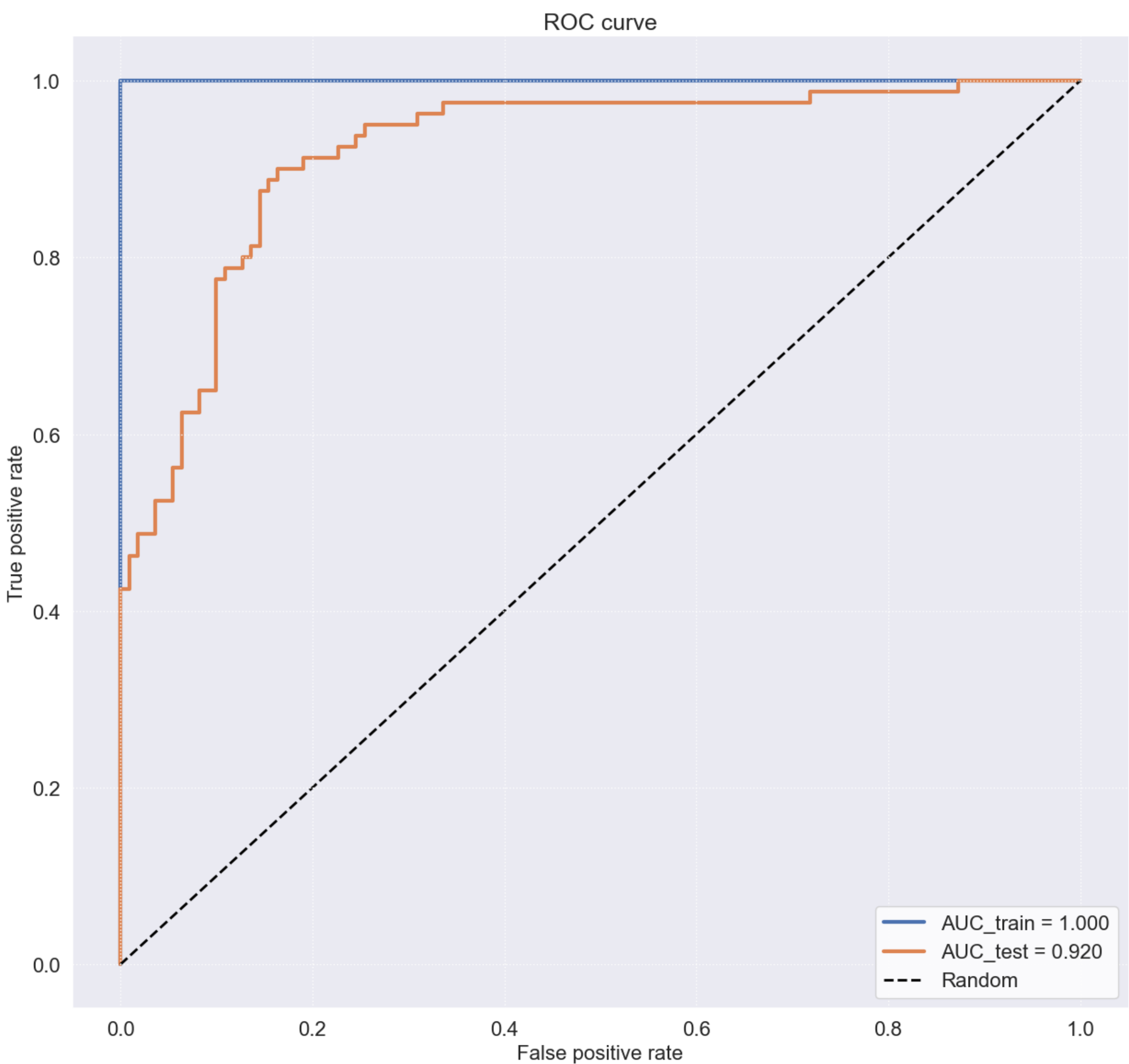
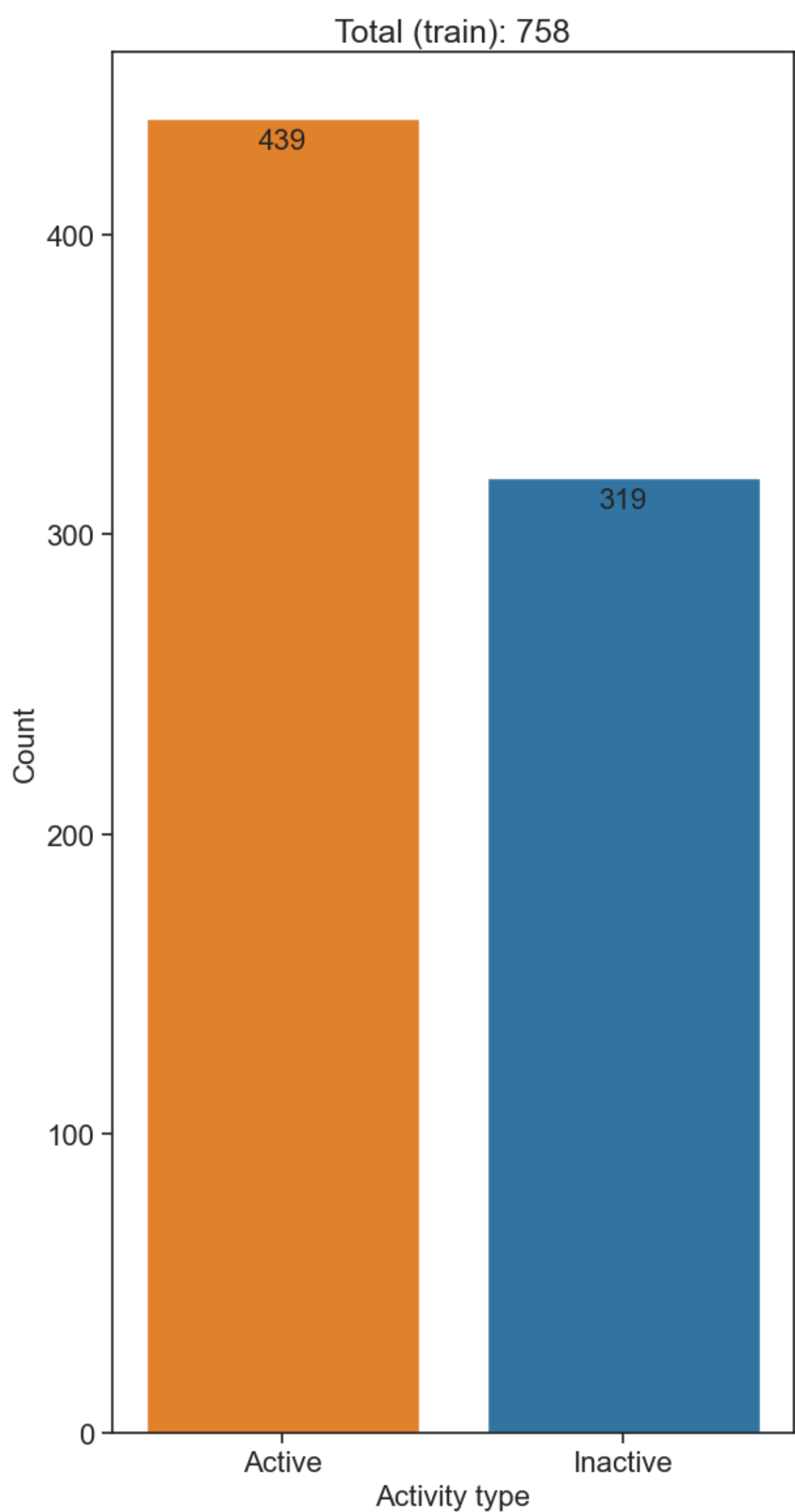
XGBoost Parameters	Value
alpha	1.1616
colsample_bytree	0.7394
gamma	0.1232
lambda	3.7224
learning_rate	0.1222
max_depth	10.0
min_child_weight	2.0
n_estimators	914.0
reg_alpha	0.3072
reg_lambda	0.7652
scale_pos_weight	1.7553
subsample	0.8586



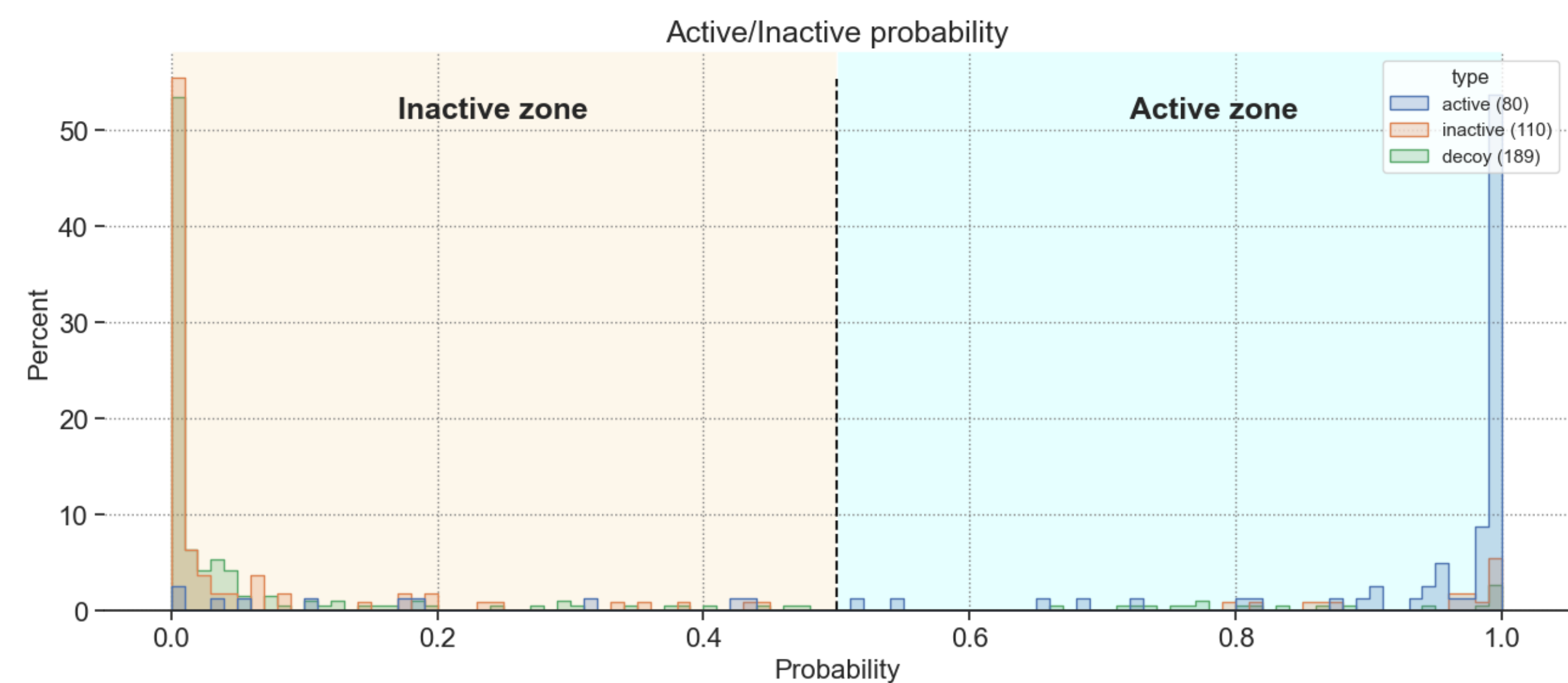
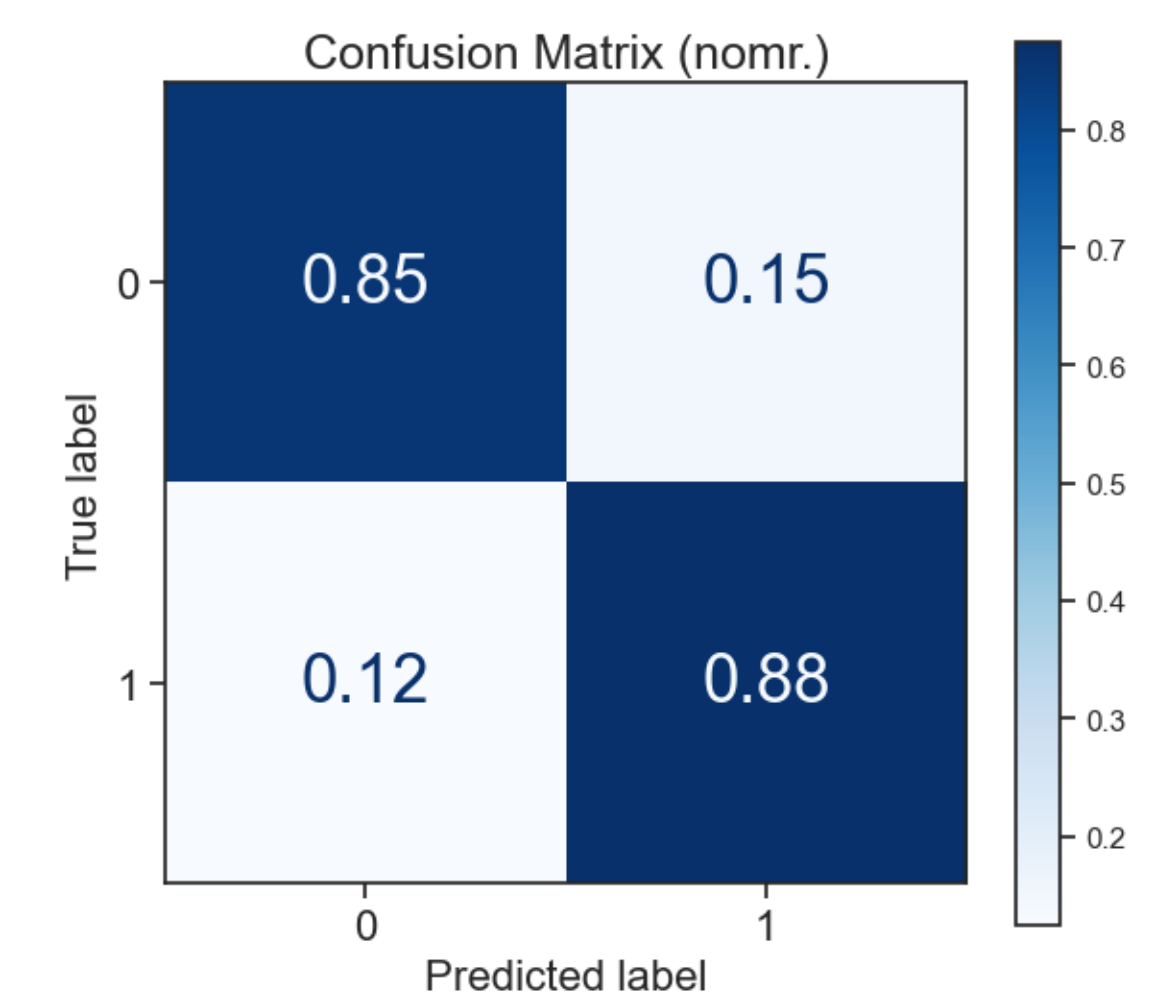
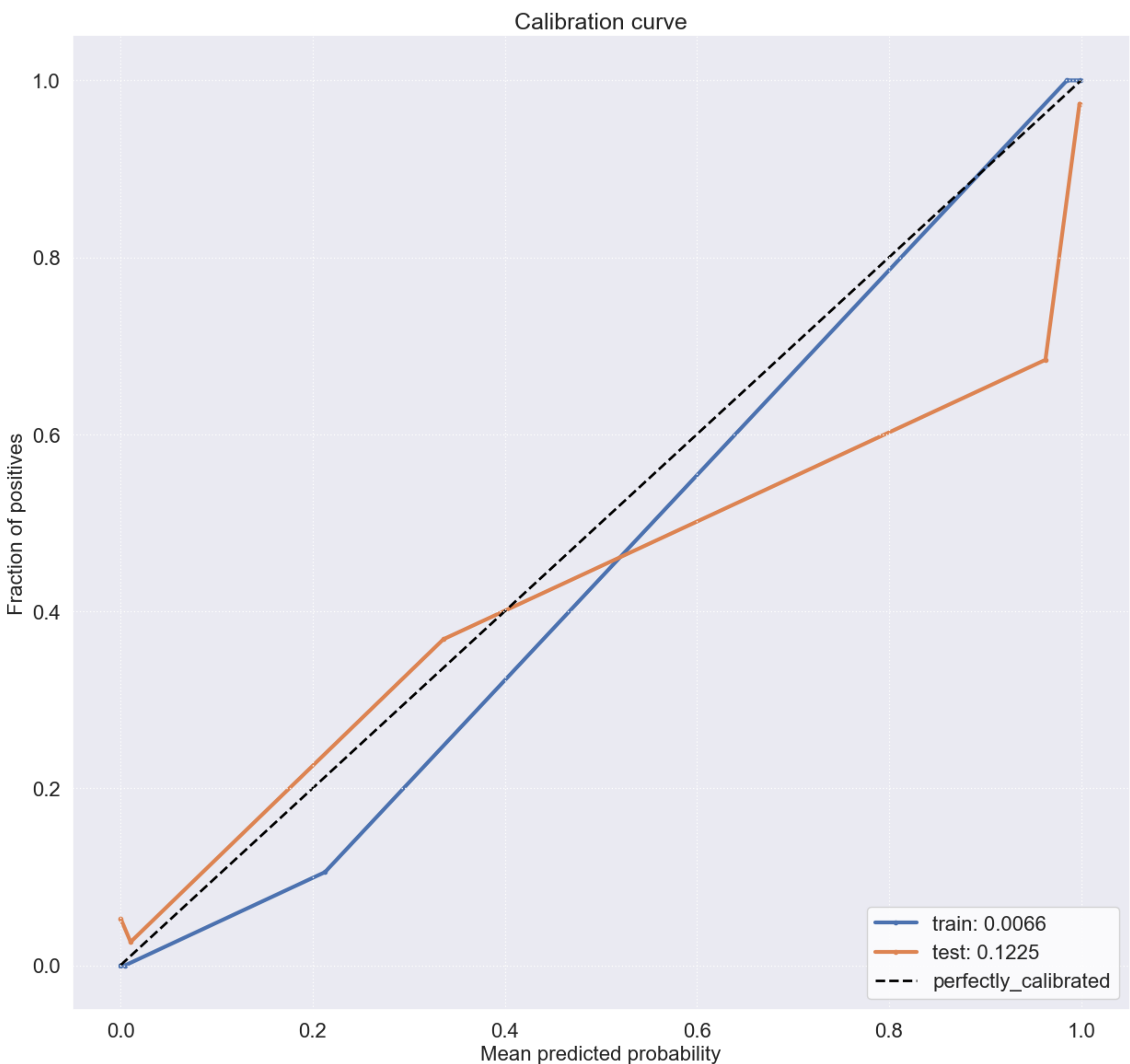
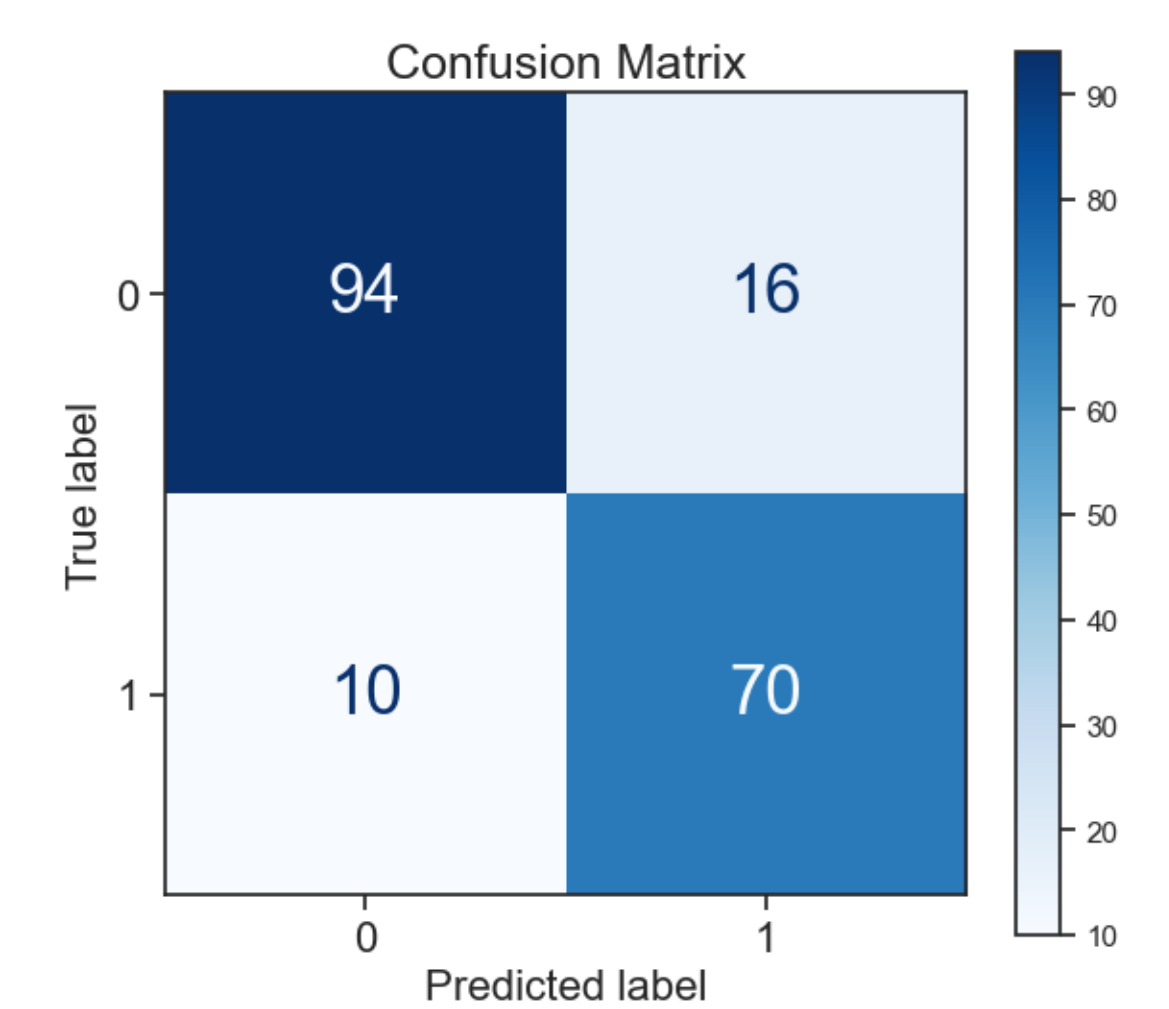
Metric	Train	Test
AUC	0.9998	0.9328
accuracy	0.9921	0.8474
balanced accuracy	0.9932	0.846
recall_(sens)	1.0	0.8375
specificity	0.9863	0.8545
precision	0.9815	0.8072
f1_score	0.9921	0.8477



Protein: P22607 - metric: f1



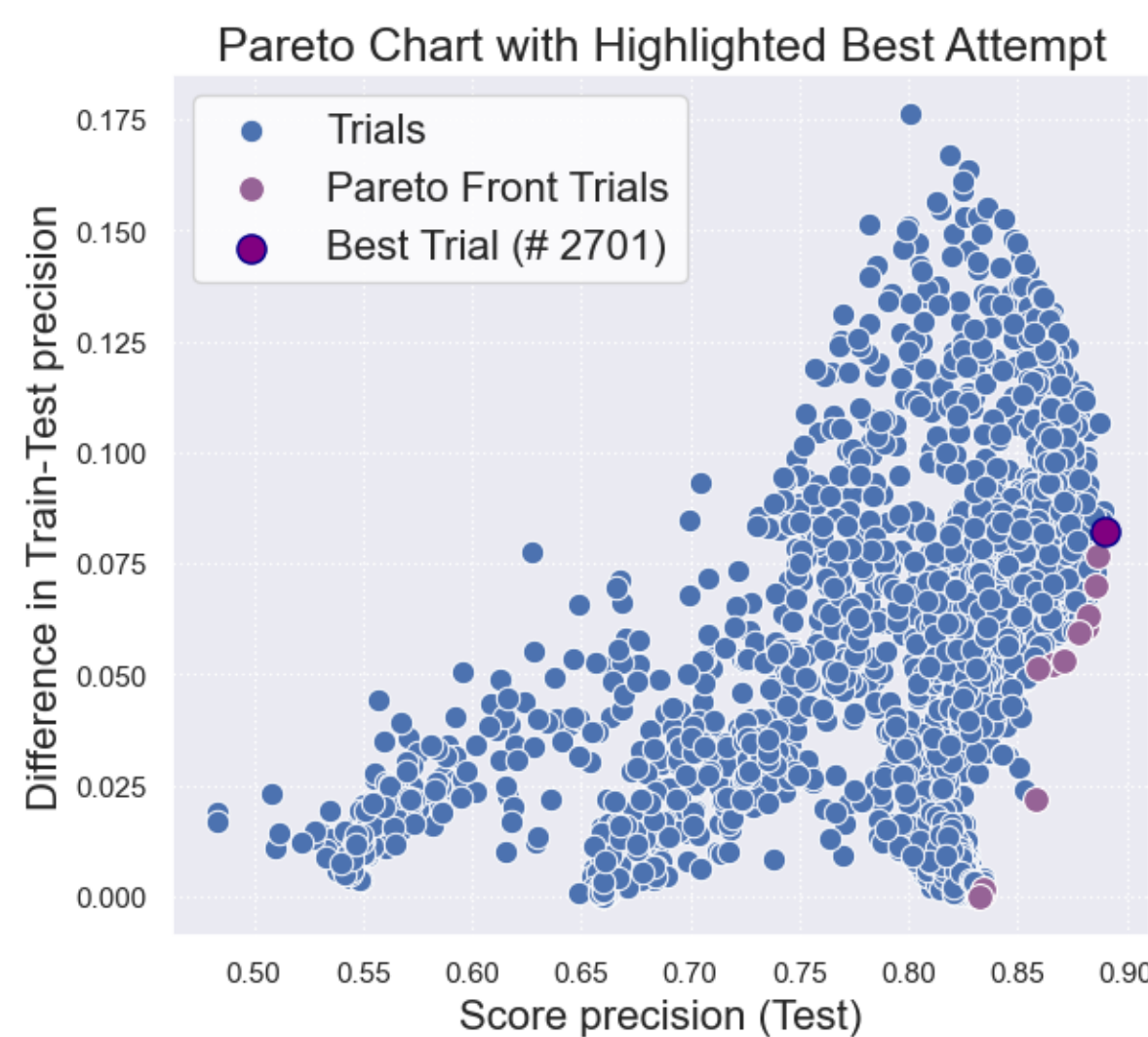
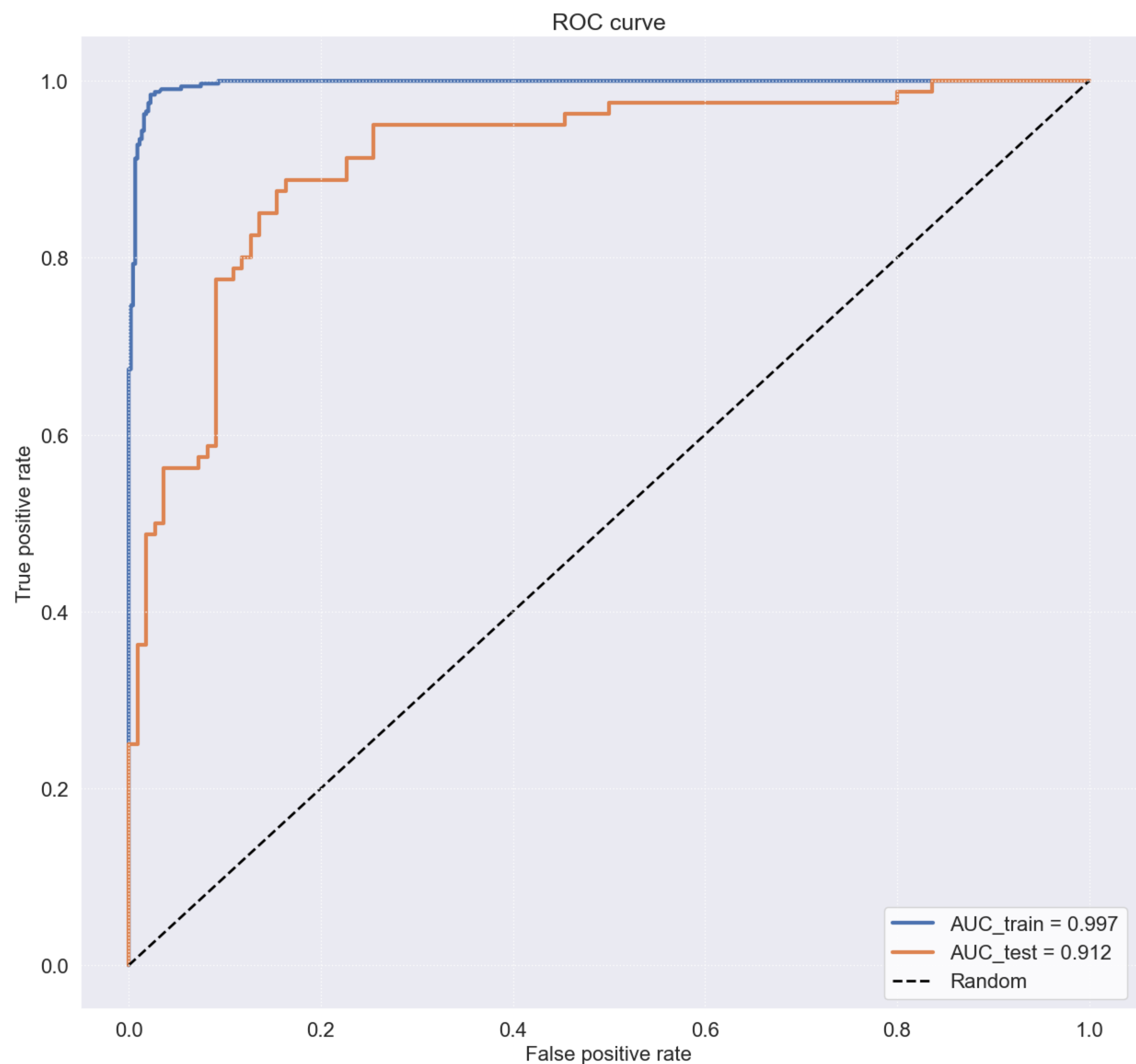
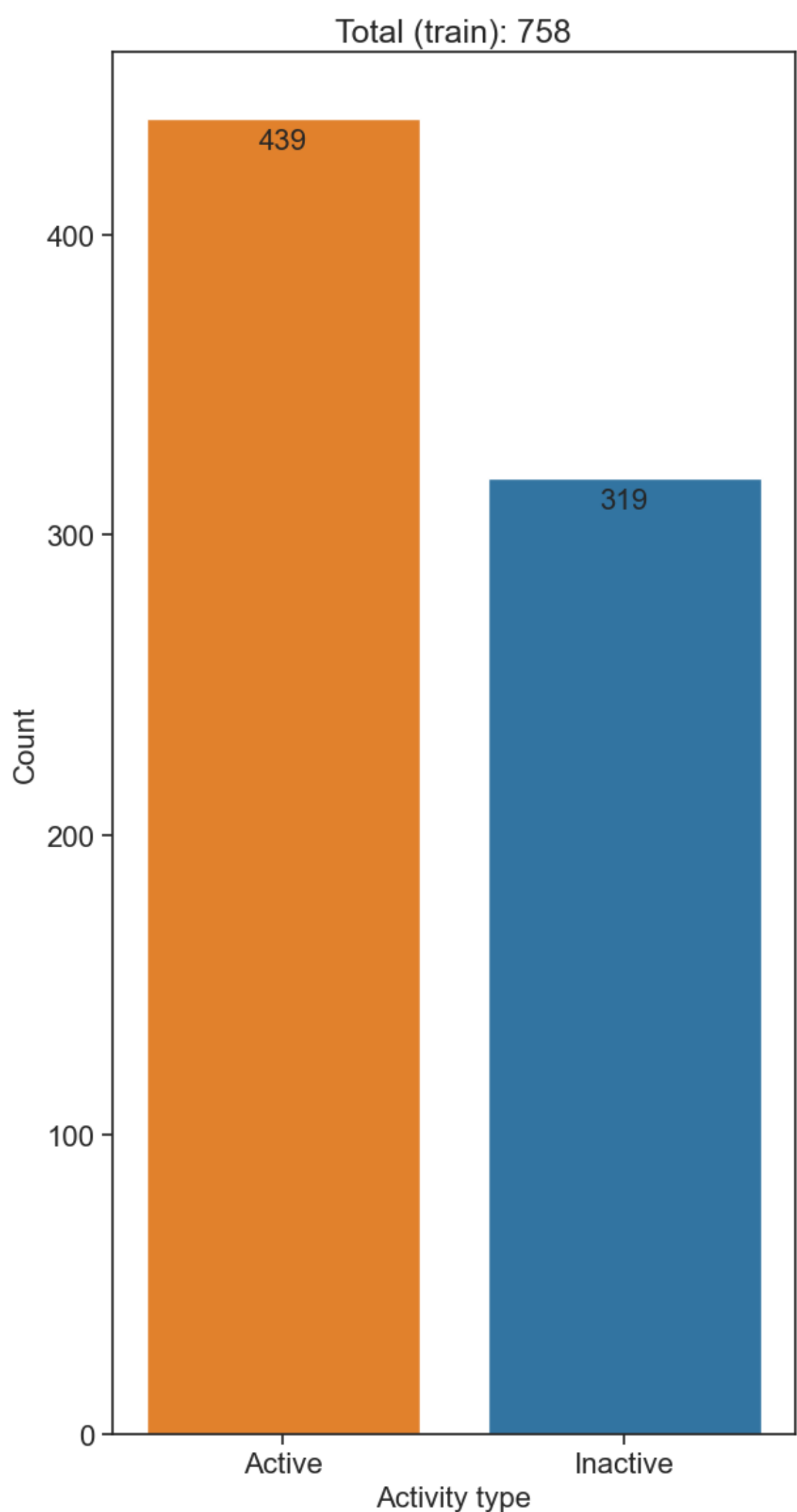
XGBoost Parameters	Value
alpha	2.7046
colsample_bytree	0.7536
gamma	0.4857
lambda	0.6292
learning_rate	0.6855
max_depth	8.0
min_child_weight	1.0
n_estimators	381.0
reg_alpha	0.3886
reg_lambda	0.756
scale_pos_weight	5.1574
subsample	0.7138



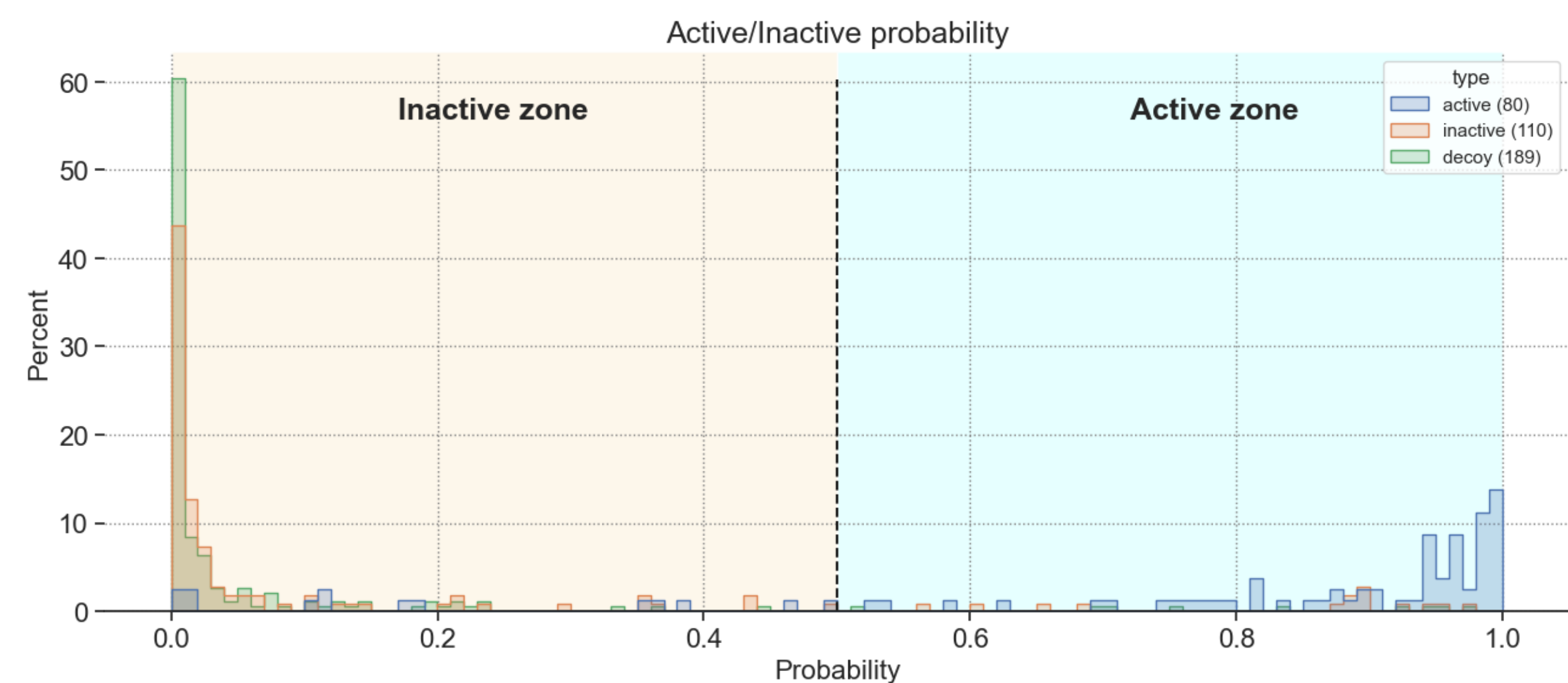
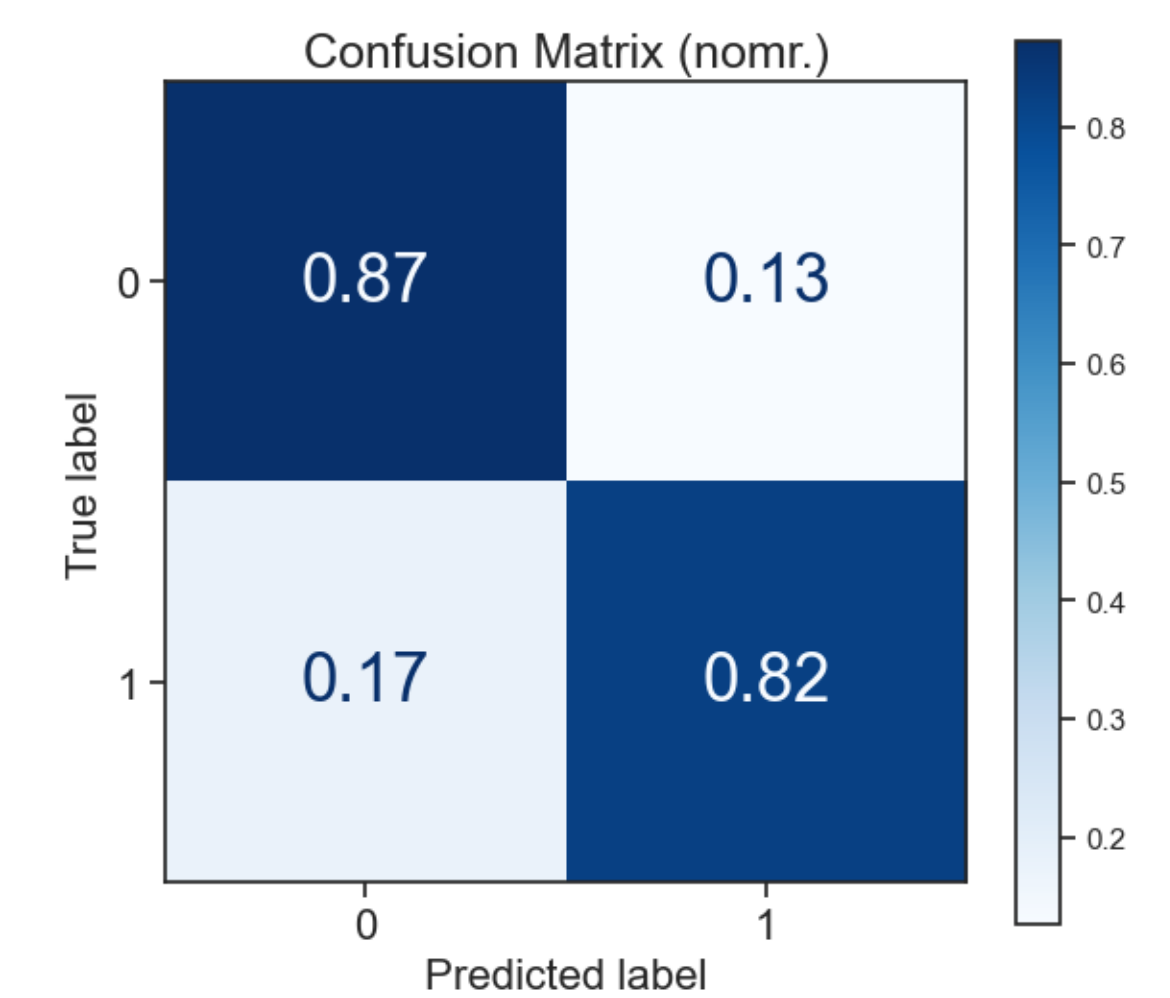
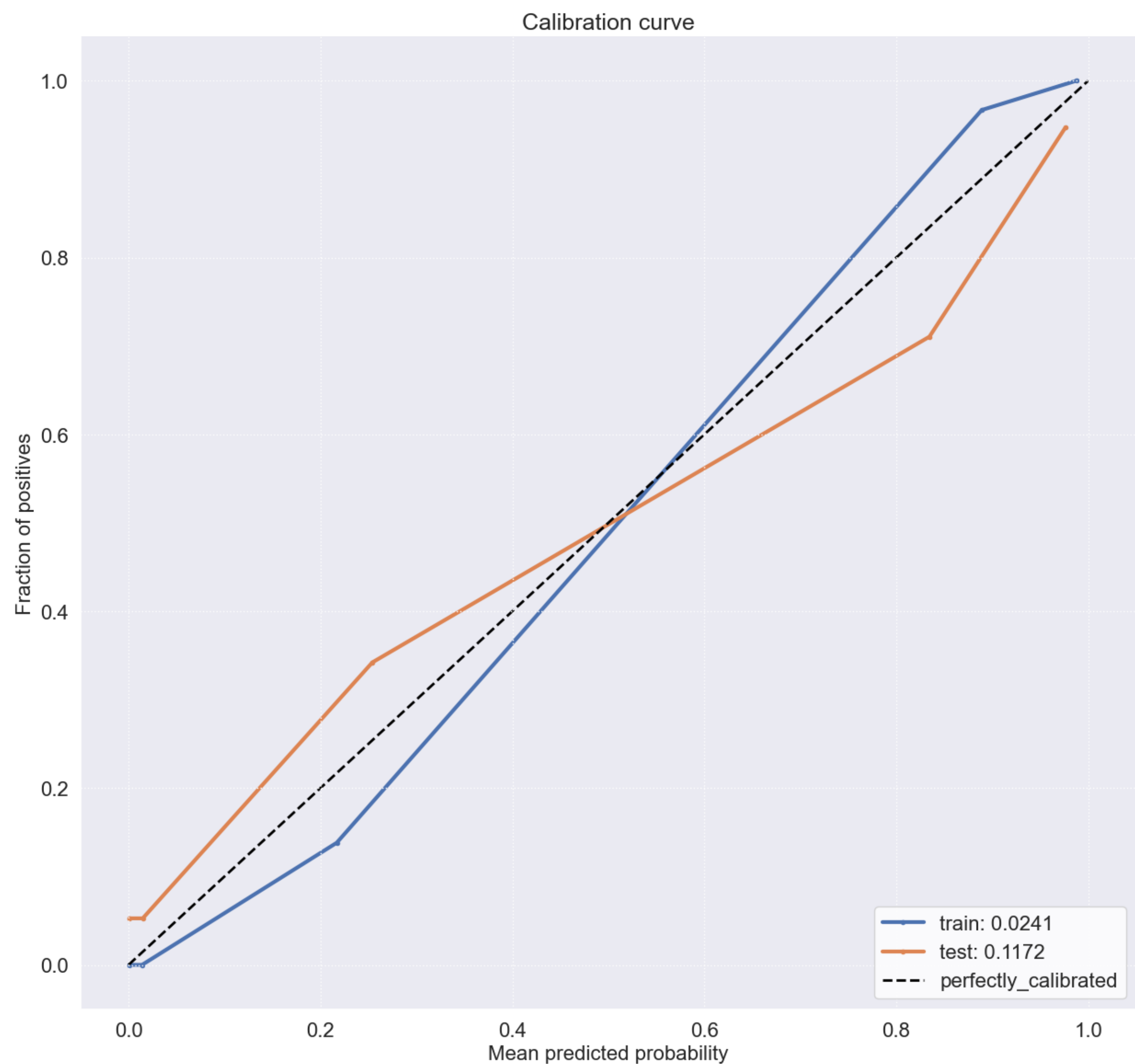
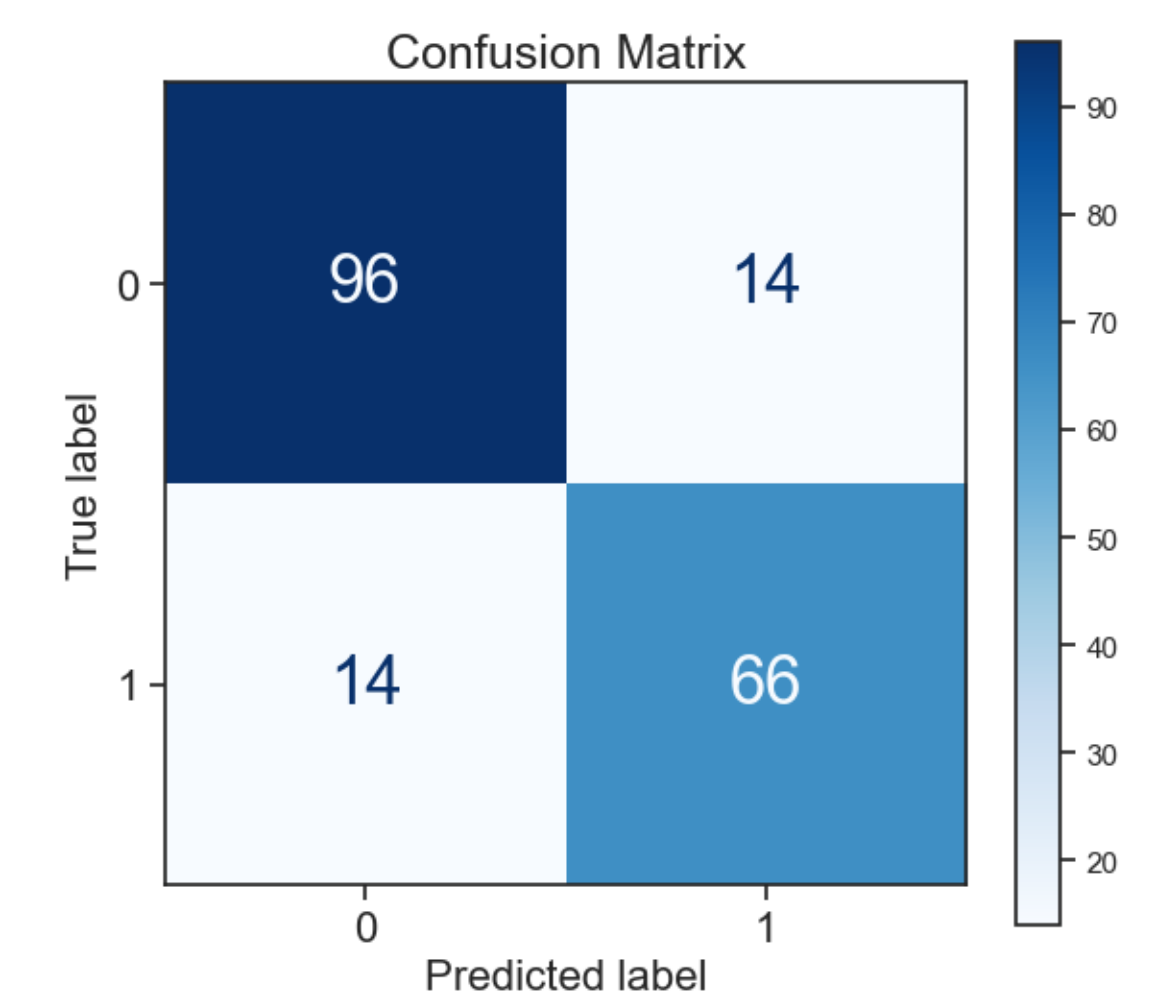
Metric	Train	Test
AUC	1.0	0.9201
accuracy	0.9974	0.8632
balanced accuracy	0.9977	0.8648
recall_(sens)	1.0	0.875
specificity	0.9954	0.8545
precision	0.9938	0.814
f1_score	0.9974	0.8637



Protein: P22607 - metric: precision



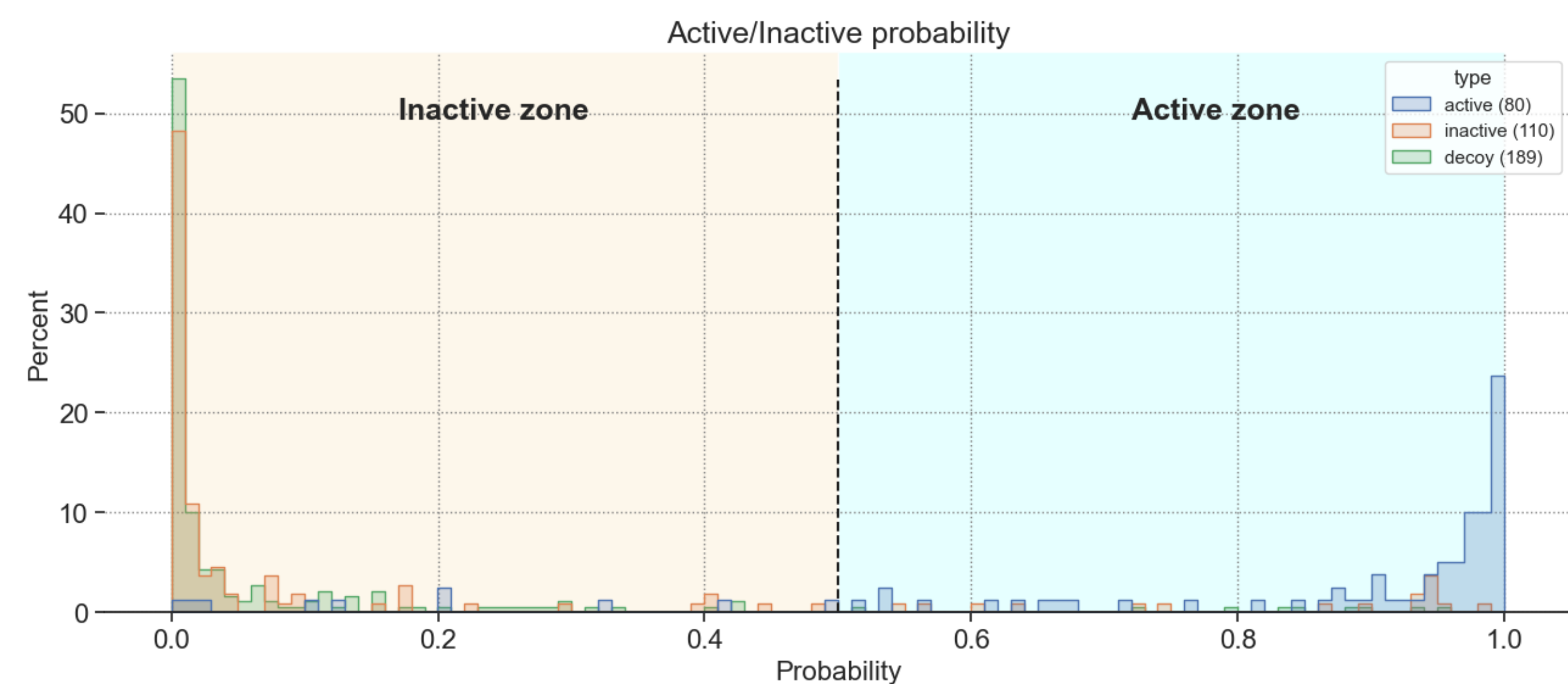
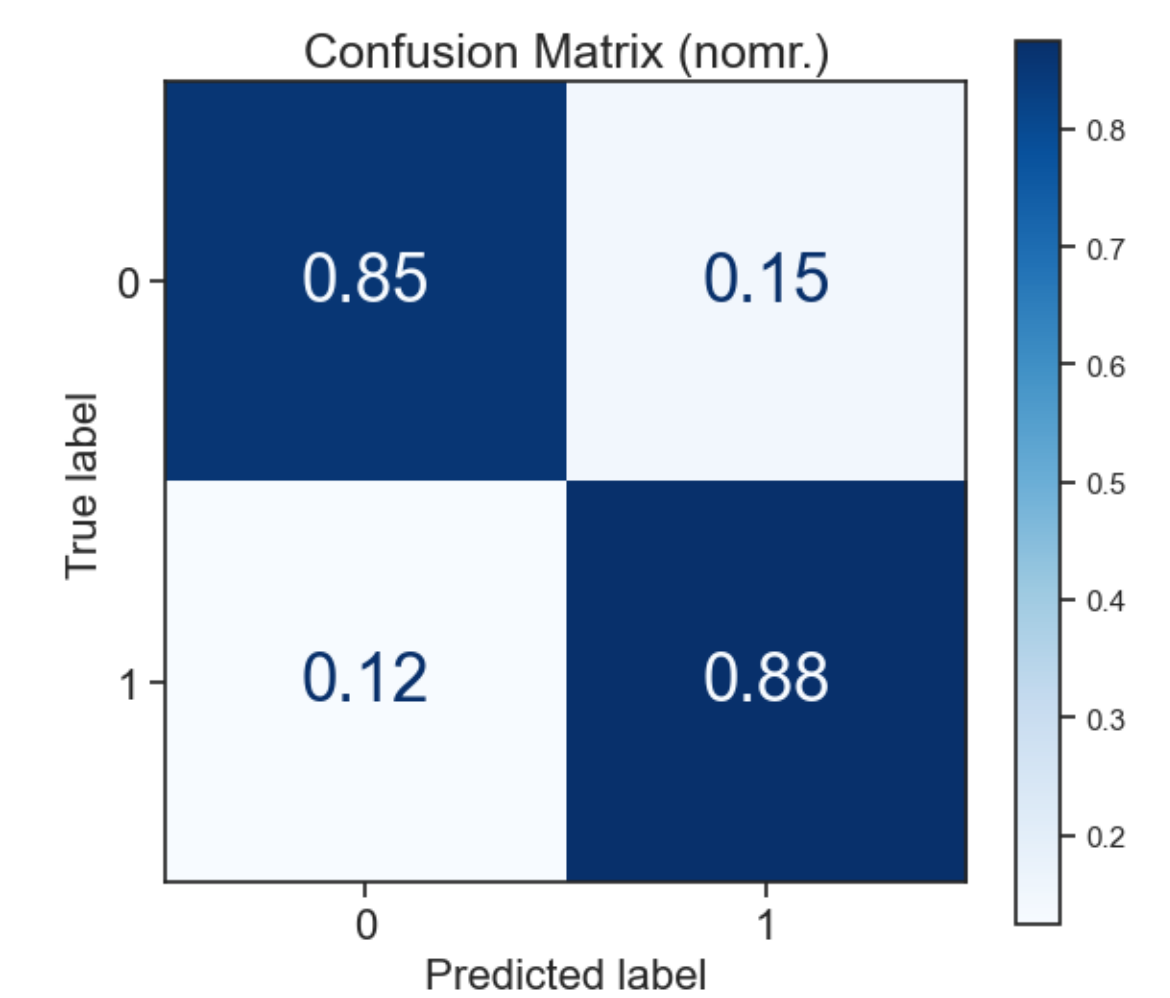
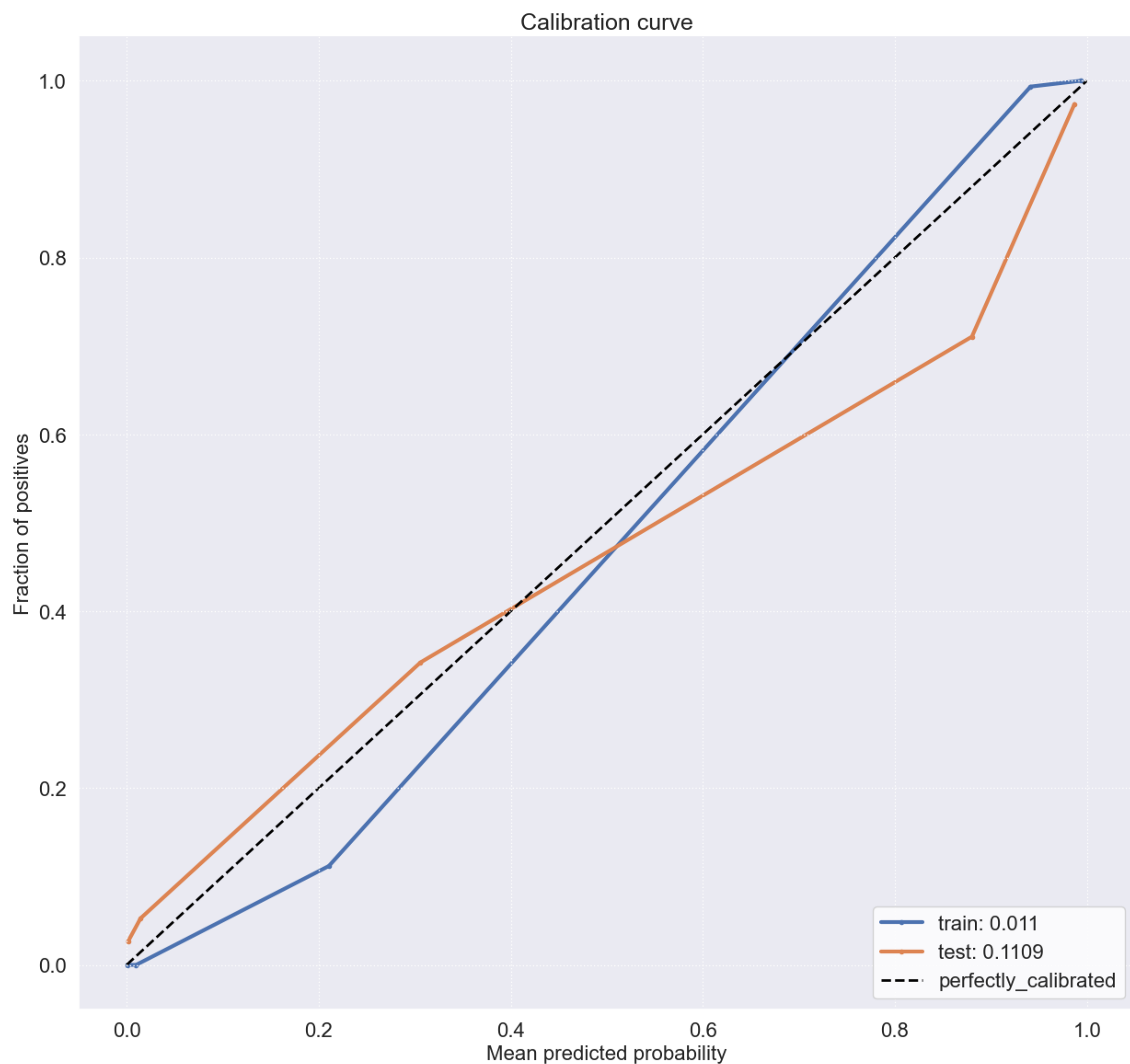
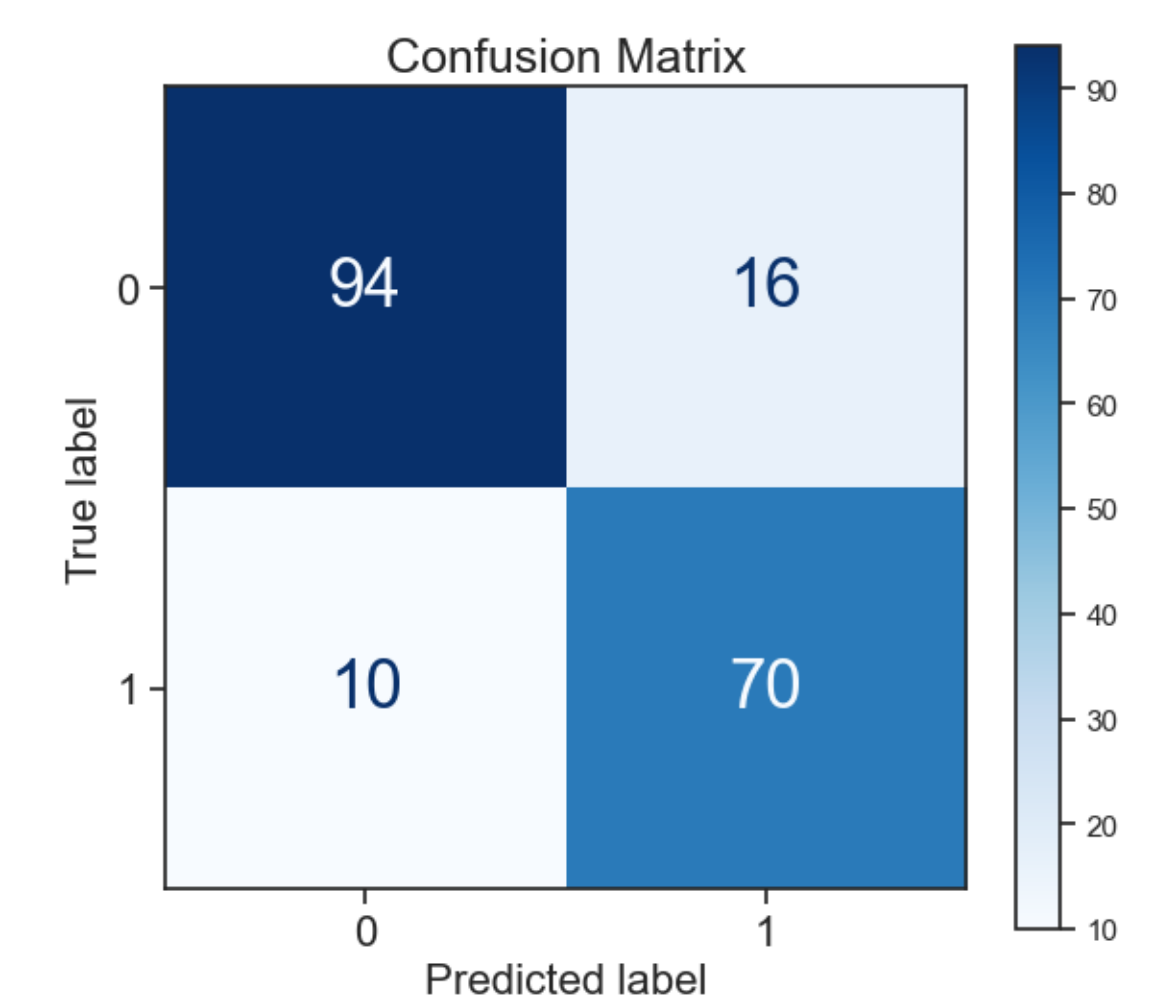
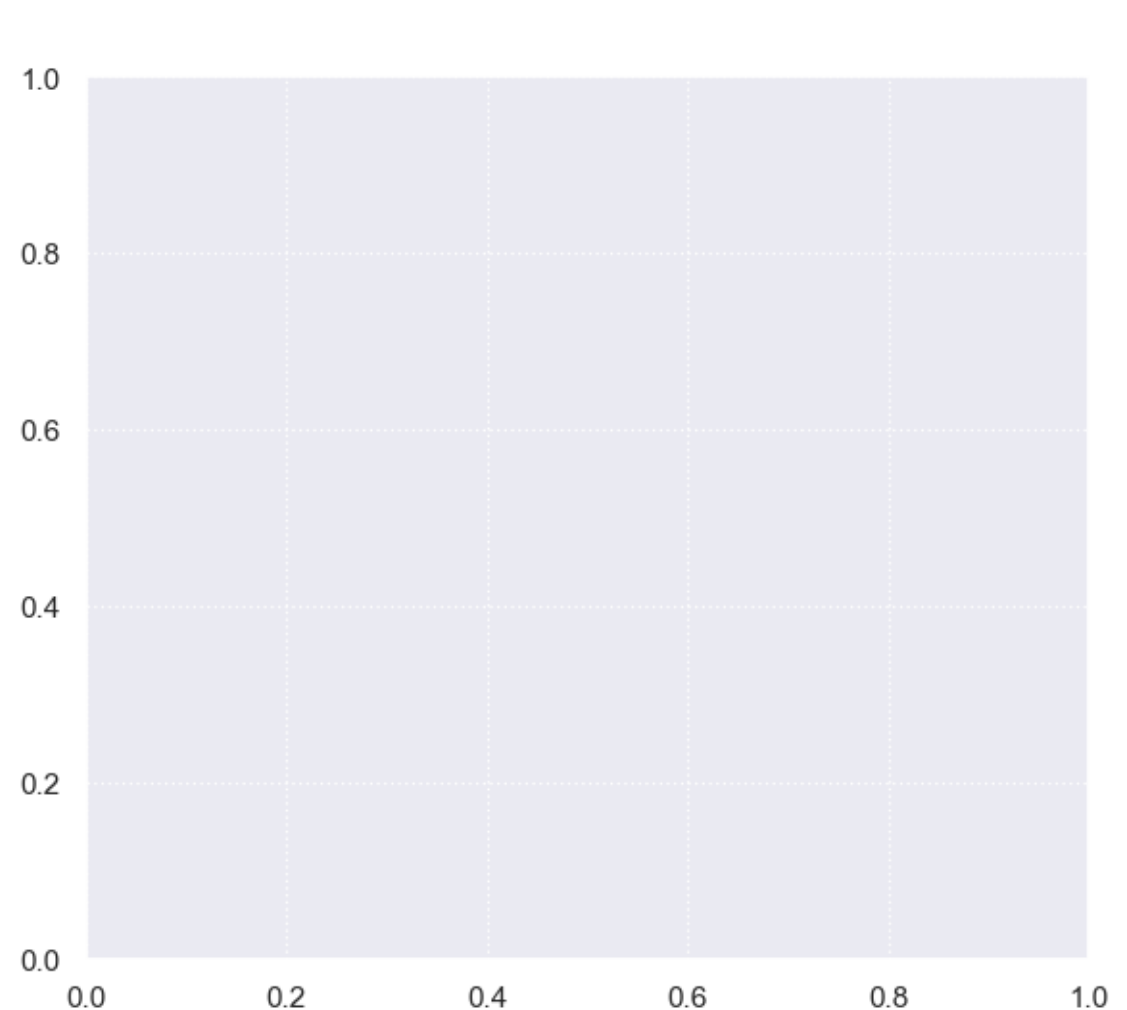
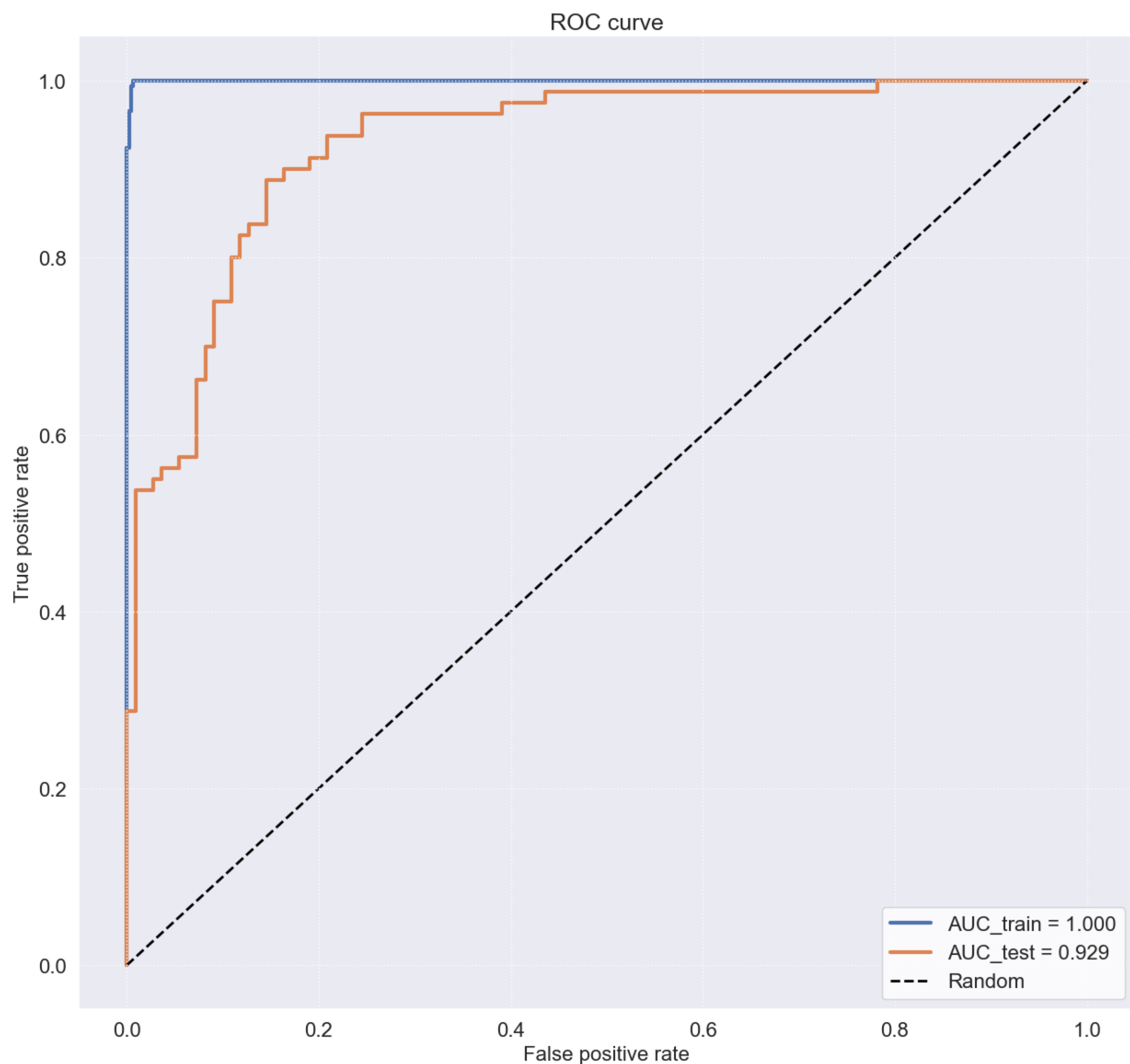
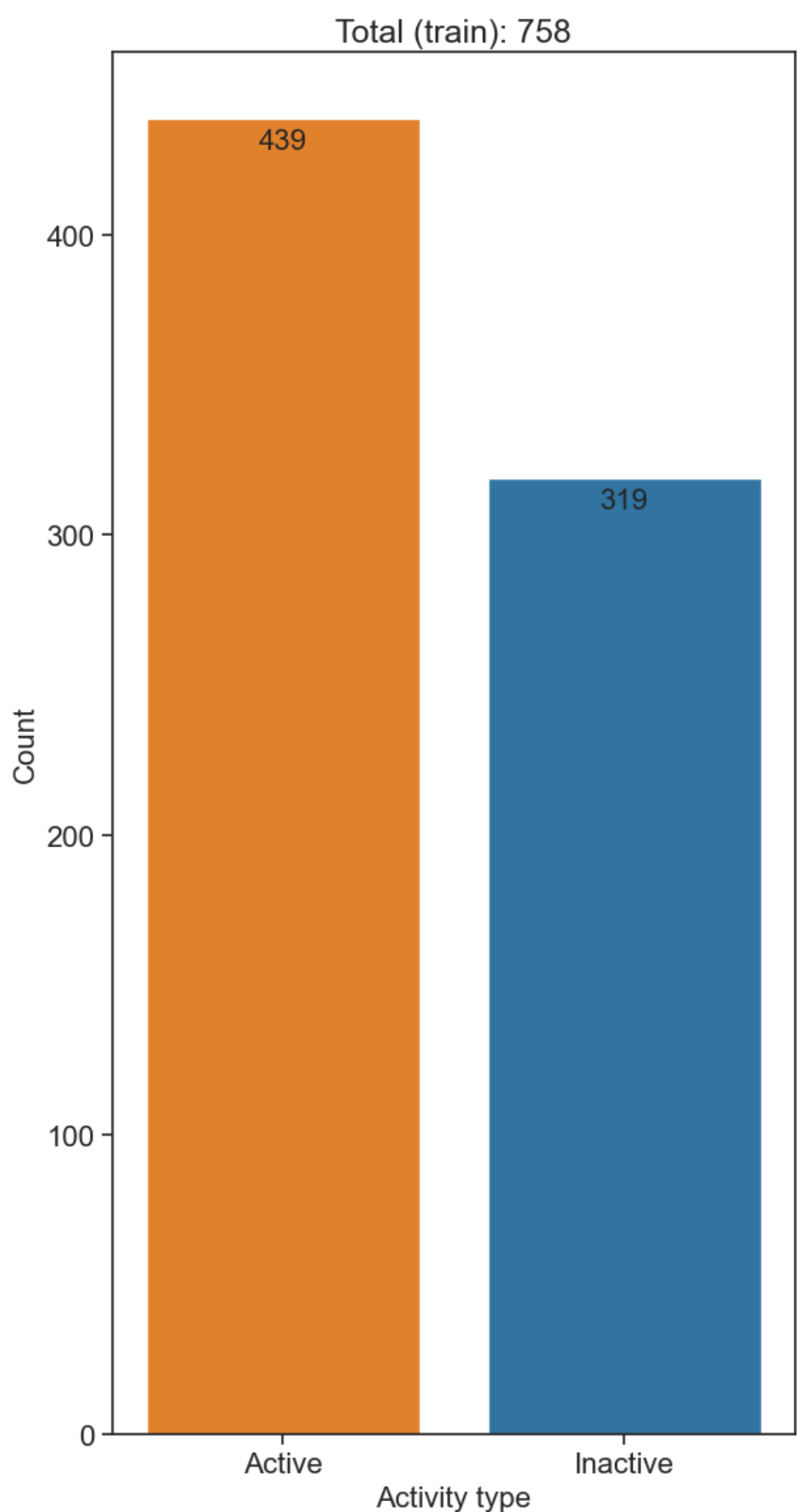
XGBoost Parameters		Value
alpha		4.7885
colsample_bytree		0.5162
gamma		0.2684
lambda		4.2322
learning_rate		0.4597
max_depth		3.0
min_child_weight		2.0
n_estimators		937.0
reg_alpha		0.6602
reg_lambda		0.0119
scale_pos_weight		1.017
subsample		0.9137



Metric	Train	Test
AUC	0.9968	0.9122
accuracy	0.9749	0.8526
balanced accuracy	0.9741	0.8489
recall_(sens)	0.9687	0.825
specificity	0.9795	0.8727
precision	0.9717	0.825
f1_score	0.9749	0.8526



Protein: P22607 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9997	0.9291
accuracy	0.9947	0.8632
balanced accuracy	0.9954	0.8648
recall_(sens)	1.0	0.875
specificity	0.9909	0.8545
precision	0.9876	0.814
f1_score	0.9947	0.8637