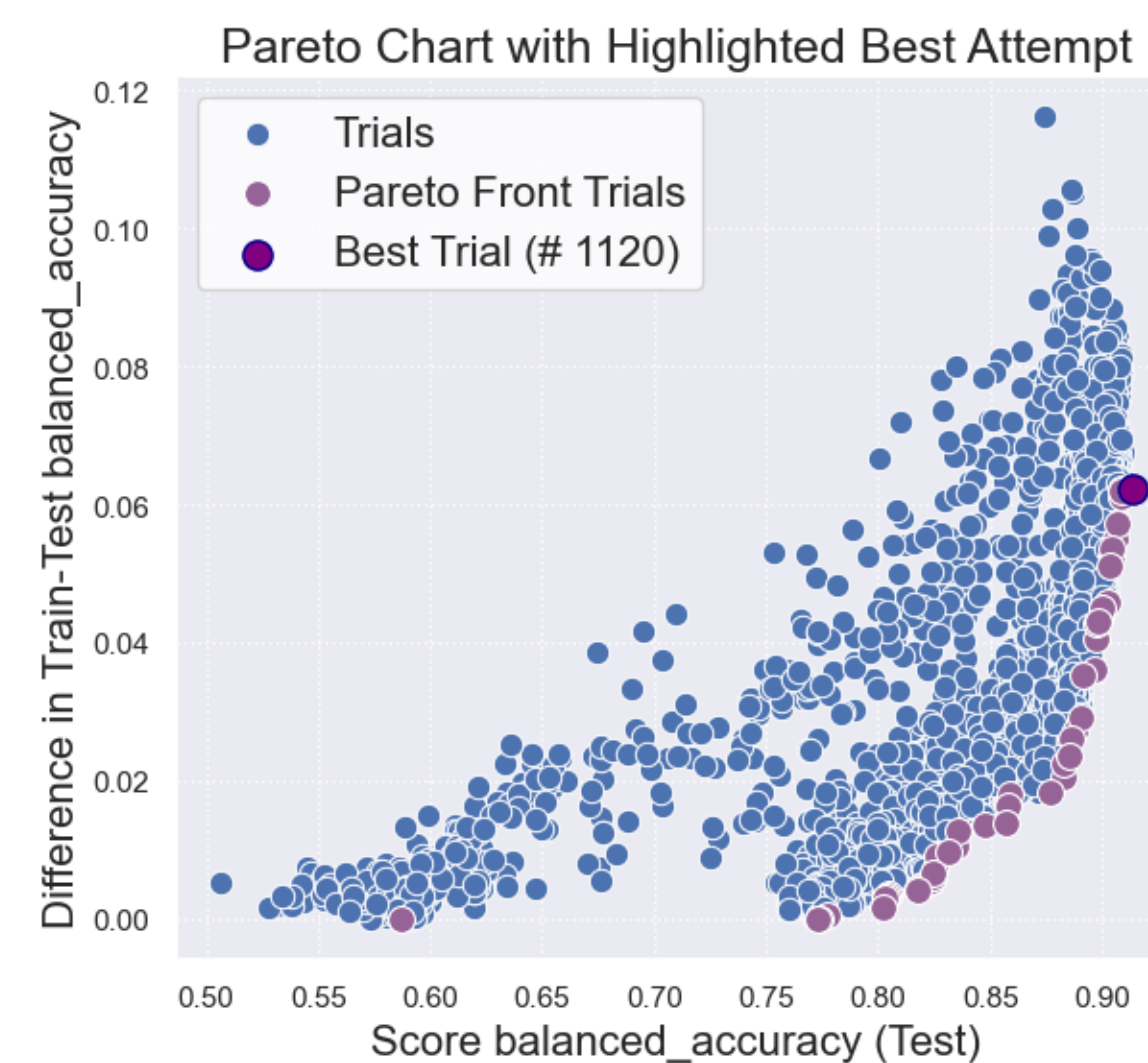
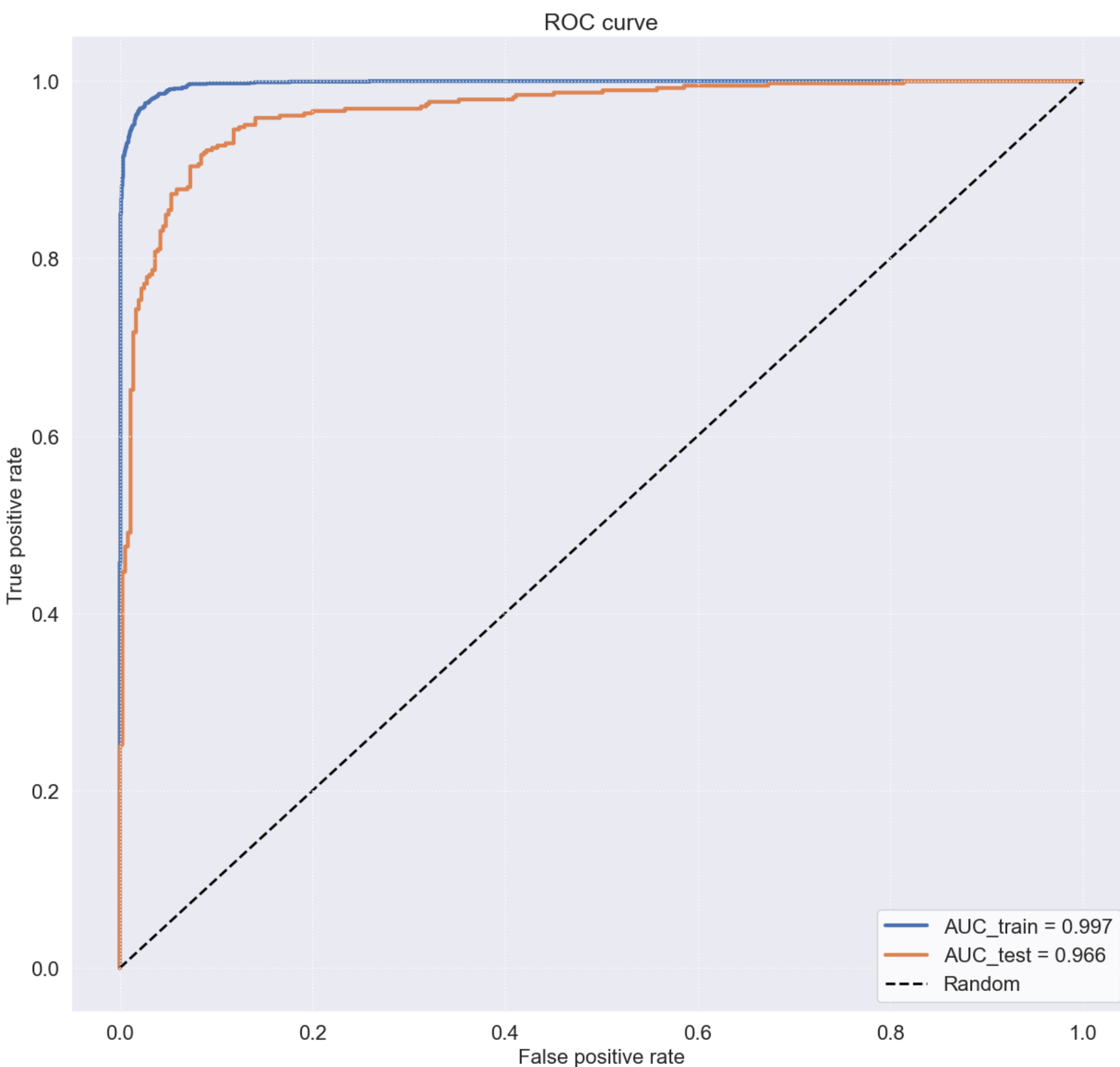
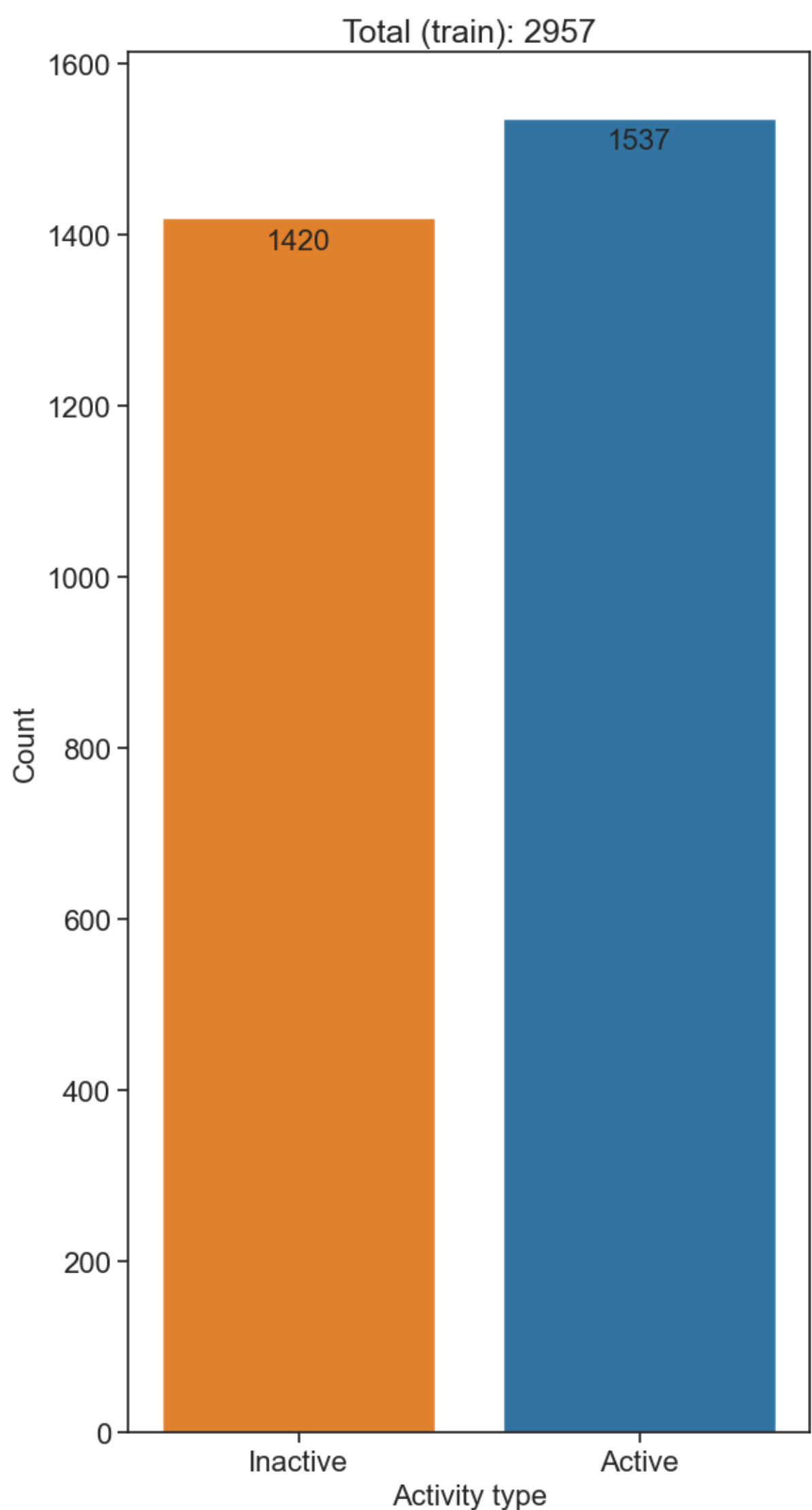
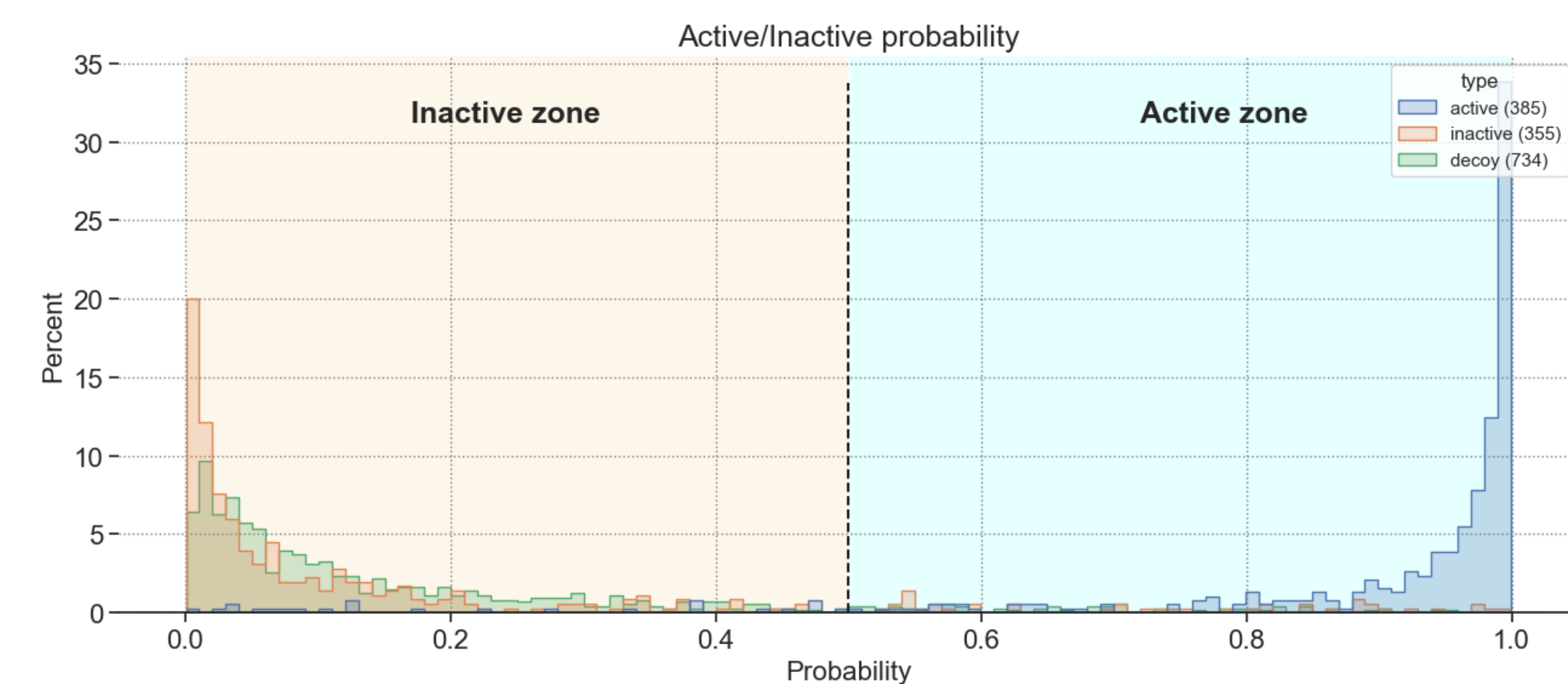
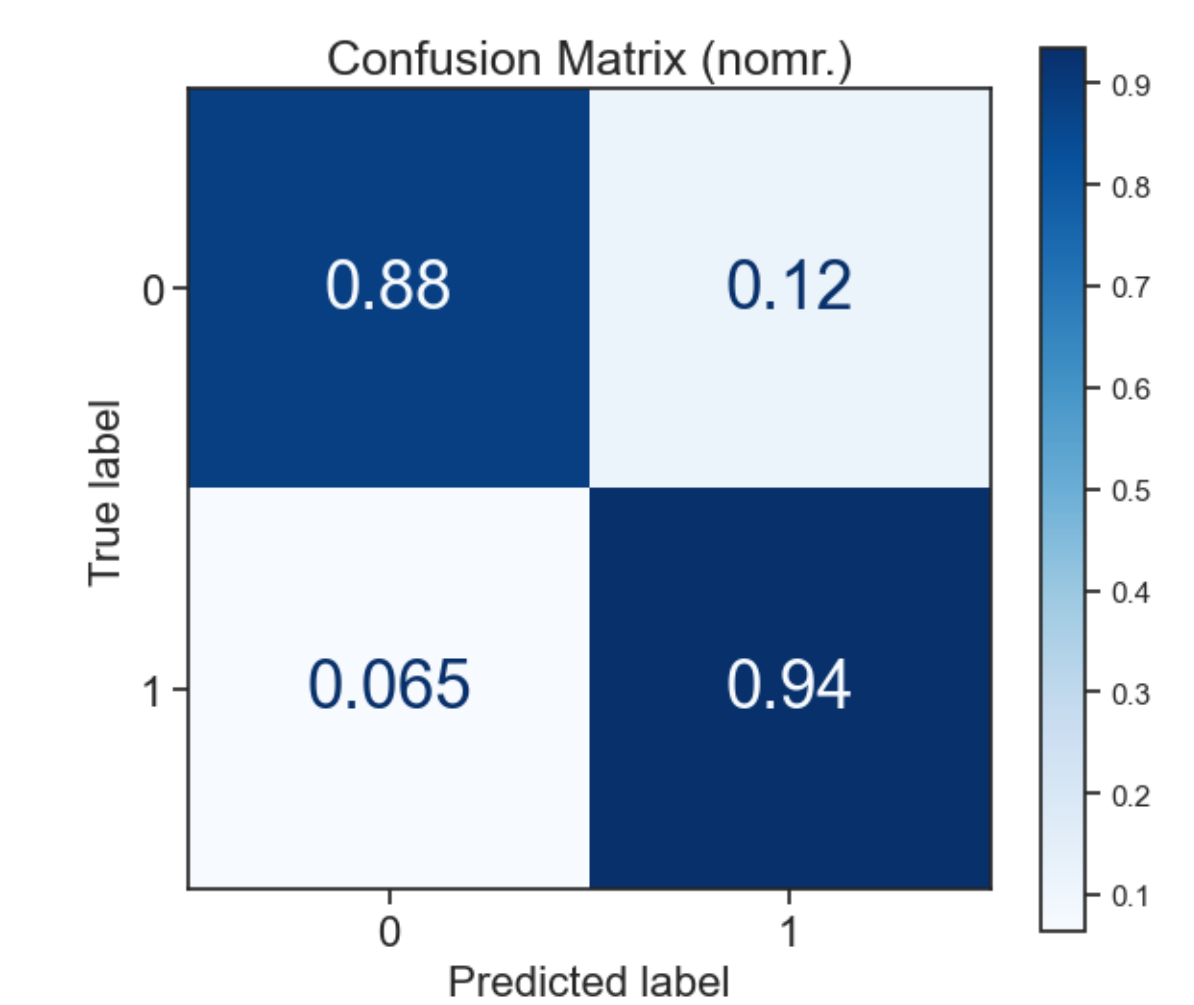
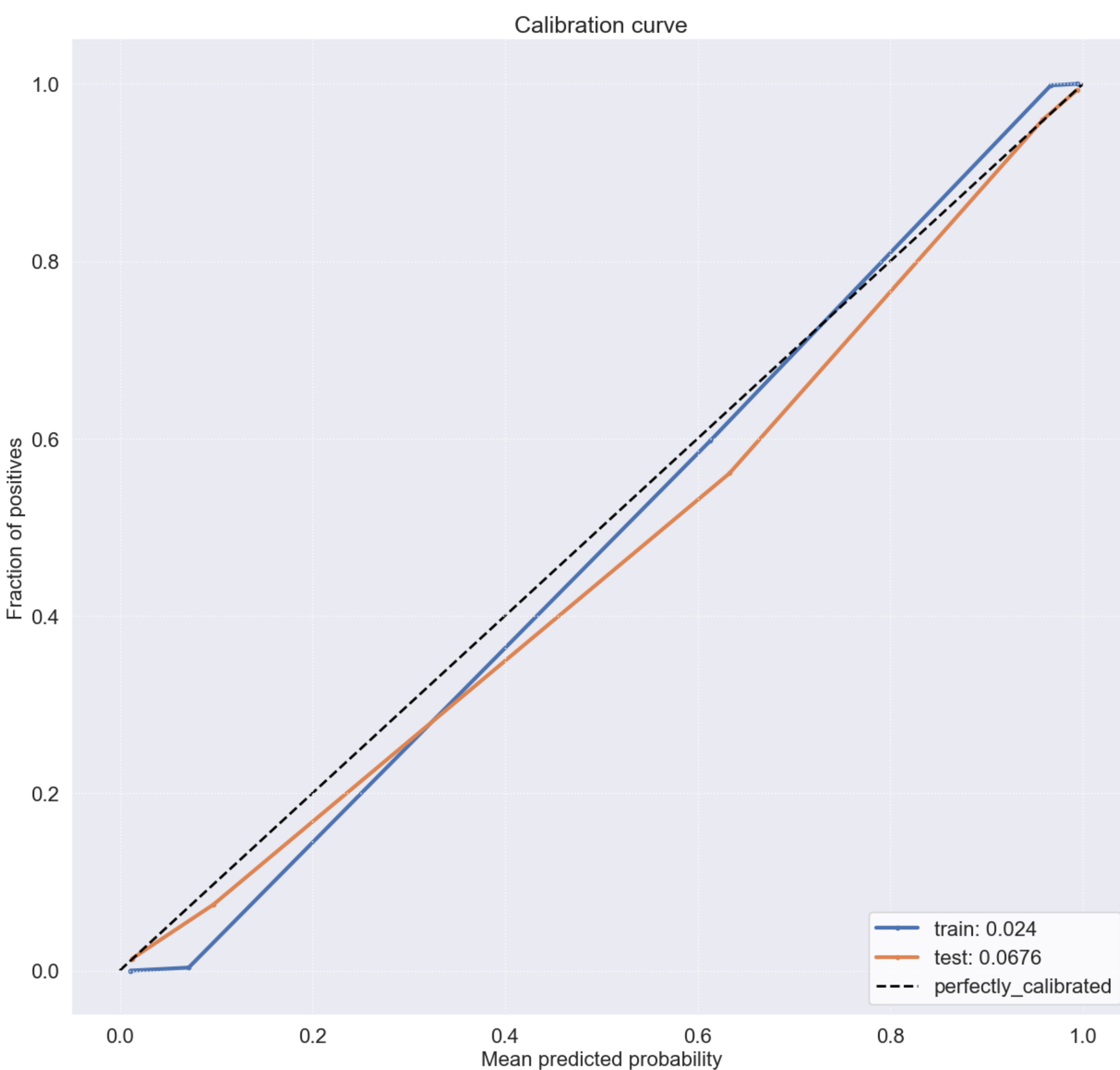
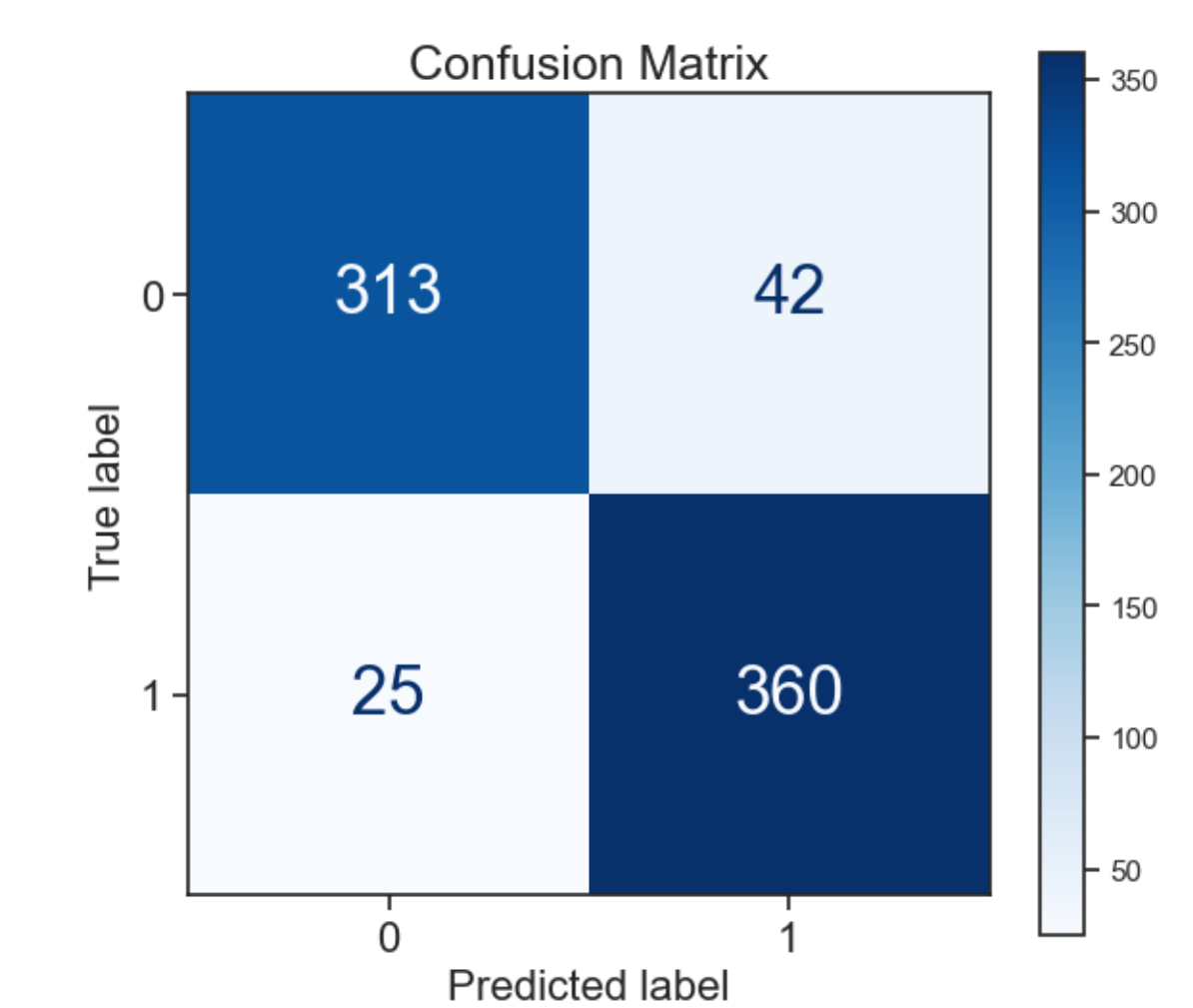


Protein: P35462 - metric: balanced_accuracy

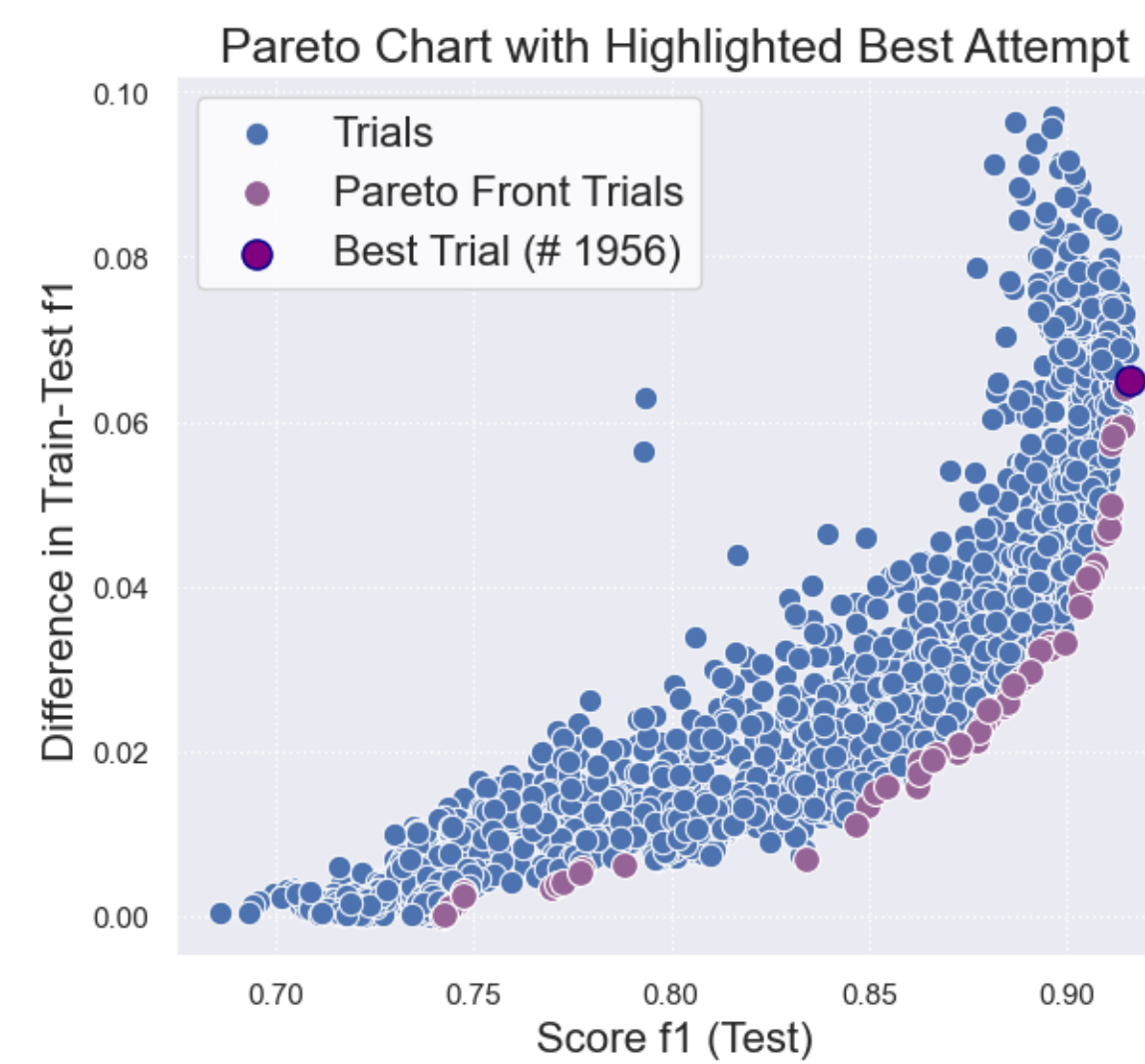
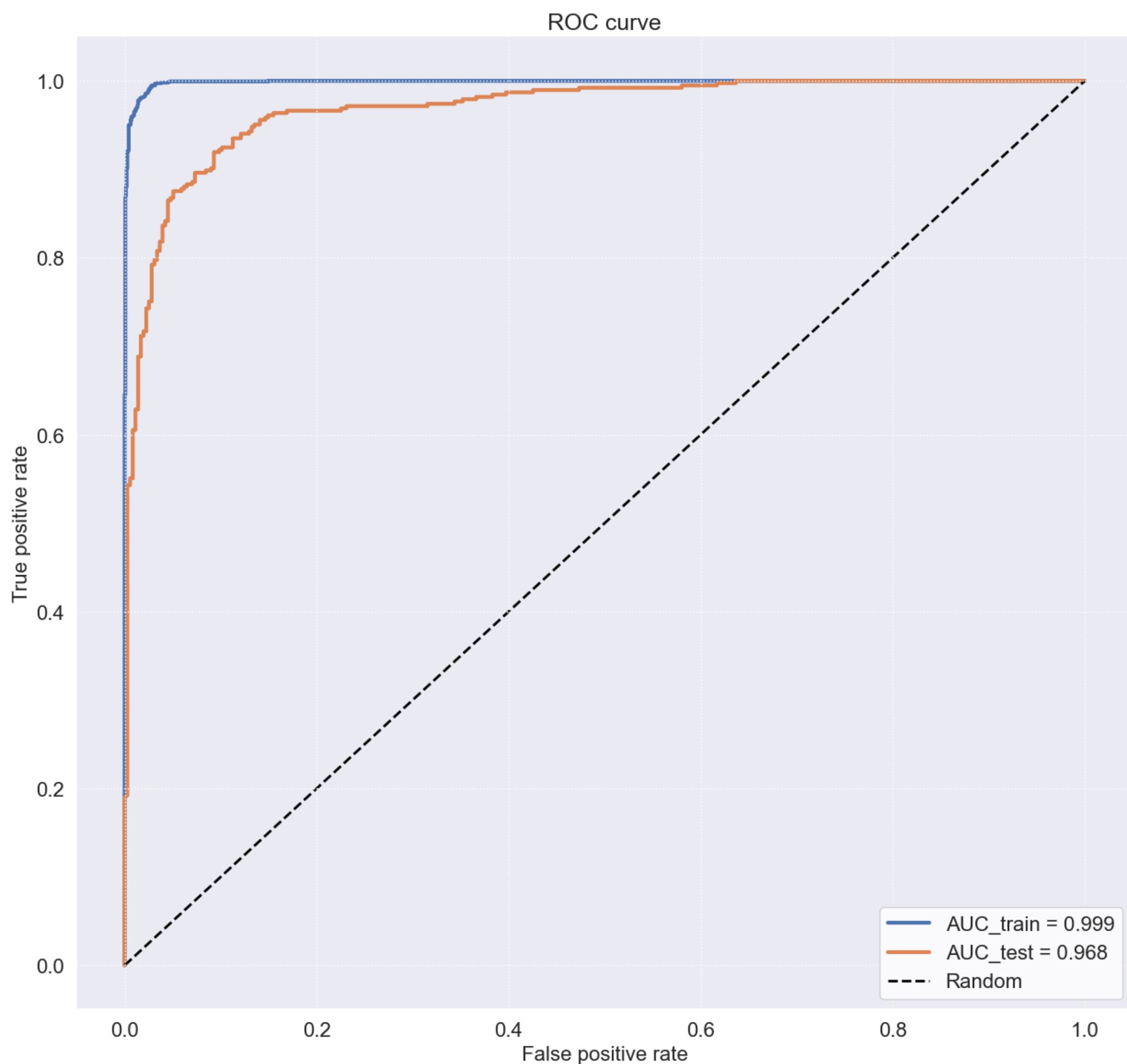
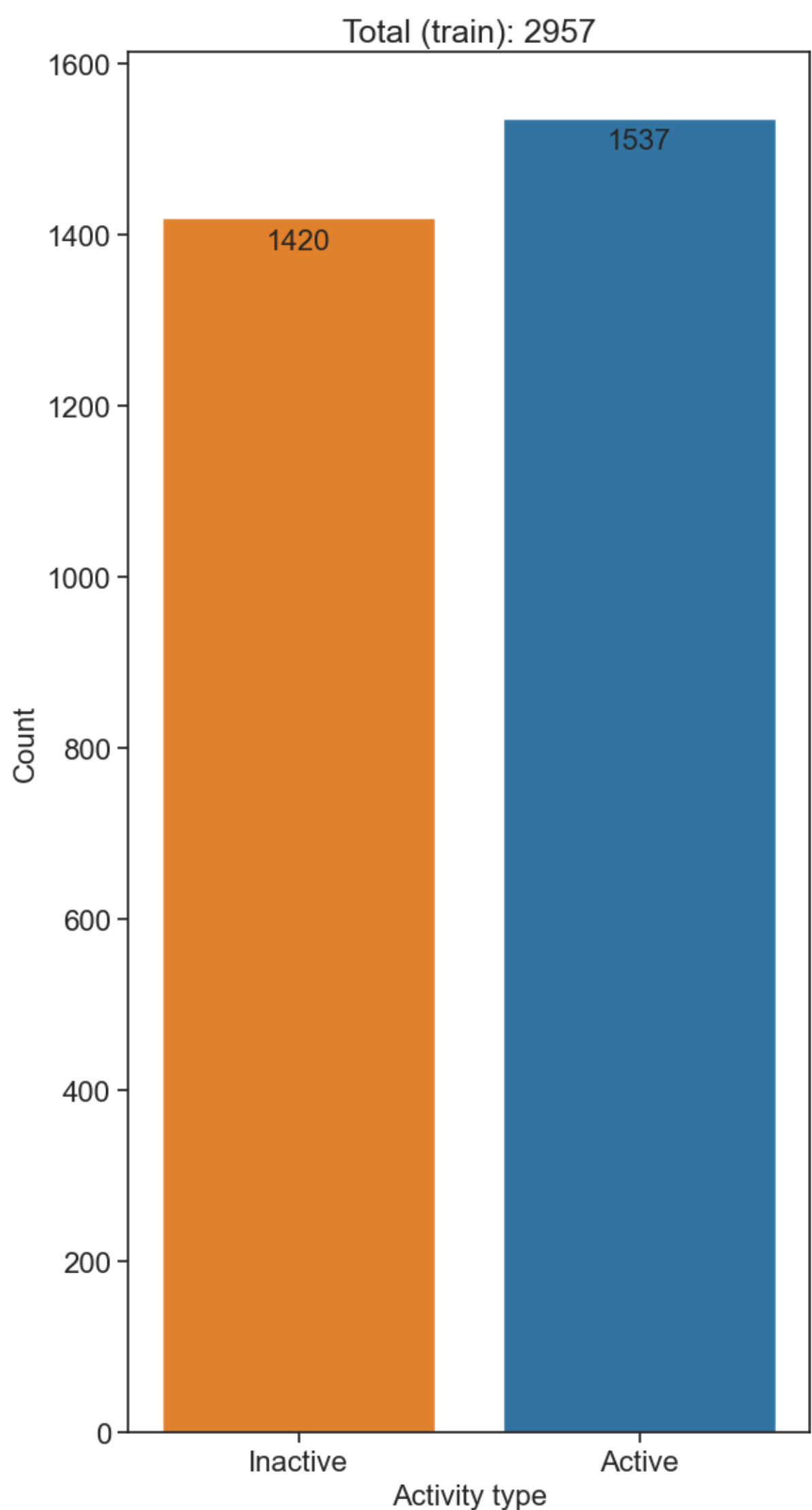


XGBoost Parameters		Value
alpha		0.1323
colsample_bytree		0.7064
gamma		0.1743
lambda		4.567
learning_rate		0.0608
max_depth		4.0
min_child_weight		1.0
n_estimators		740.0
reg_alpha		0.2751
reg_lambda		0.1234
scale_pos_weight		1.336
subsample		0.7641

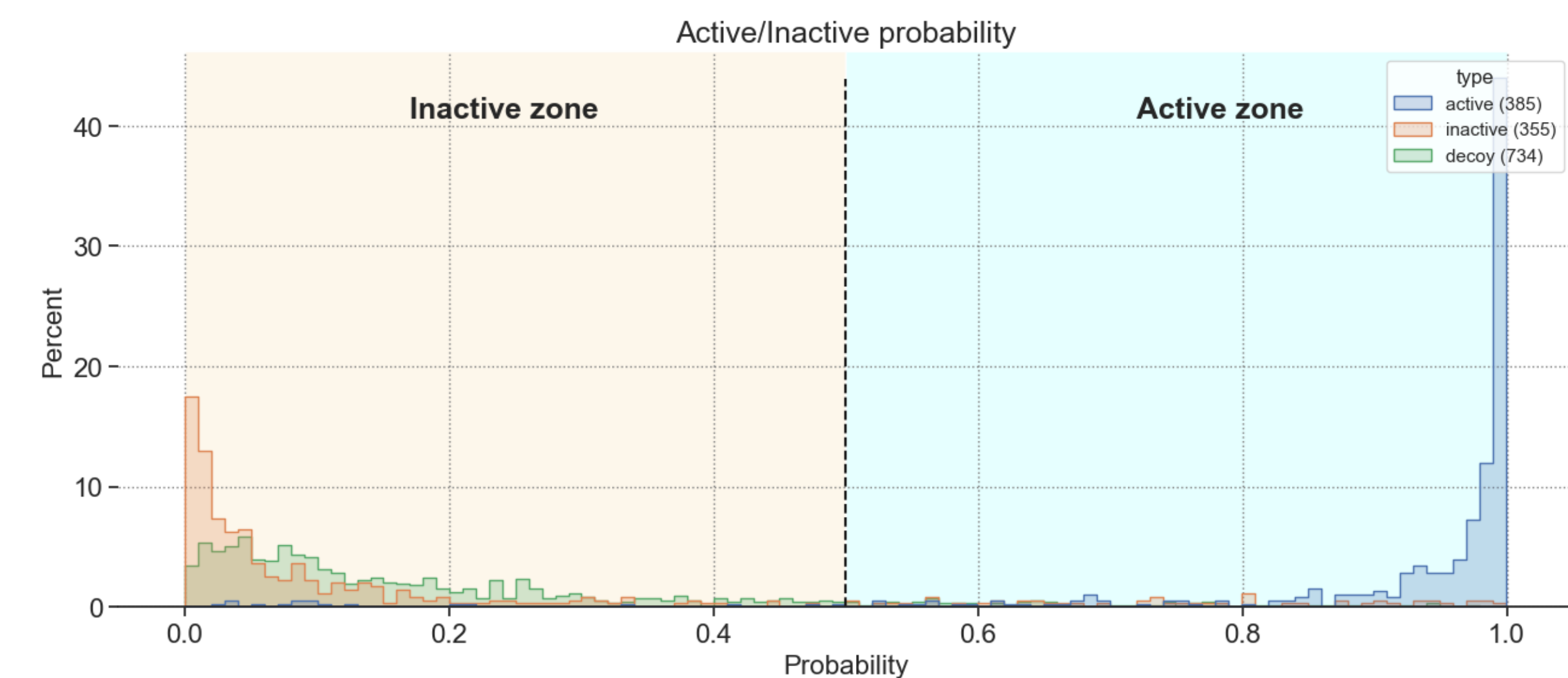
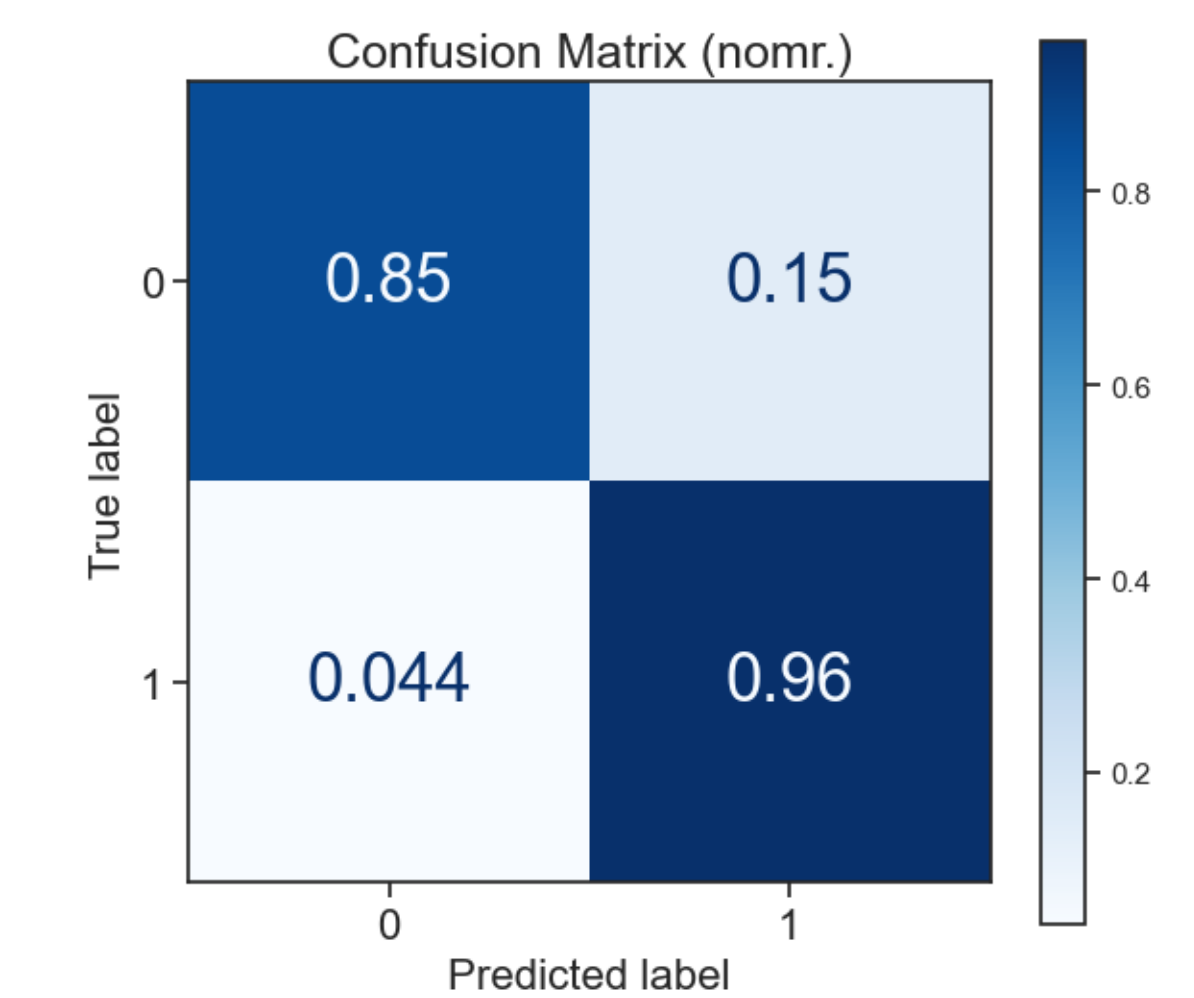
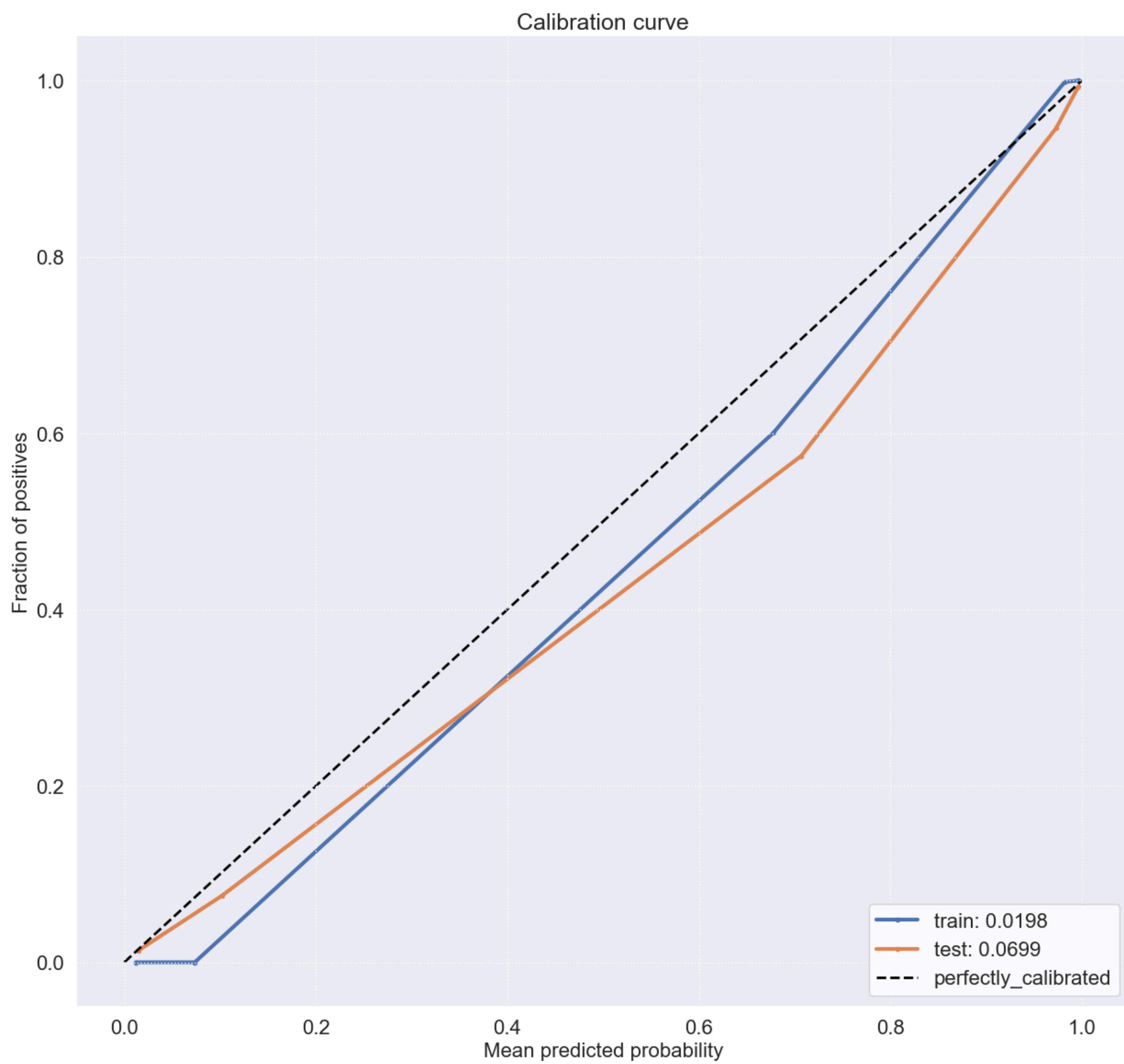
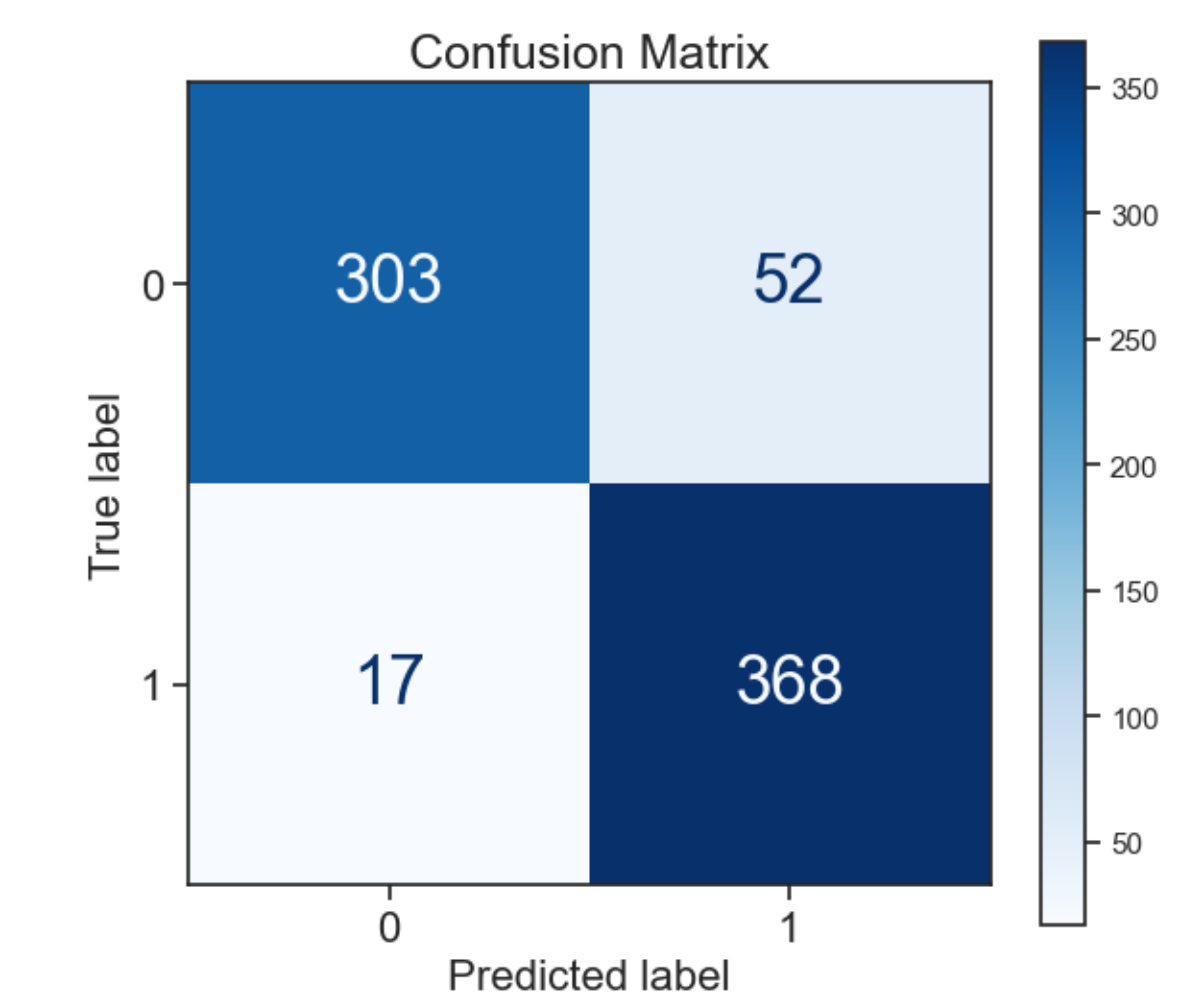


Metric	Train	Test
AUC	0.9972	0.966
accuracy	0.9726	0.9095
balanced accuracy	0.9722	0.9084
recall_(sens)	0.9831	0.9351
specificity	0.9613	0.8817
precision	0.9649	0.8955
f1_score	0.9726	0.9093

Protein: P35462 - metric: f1

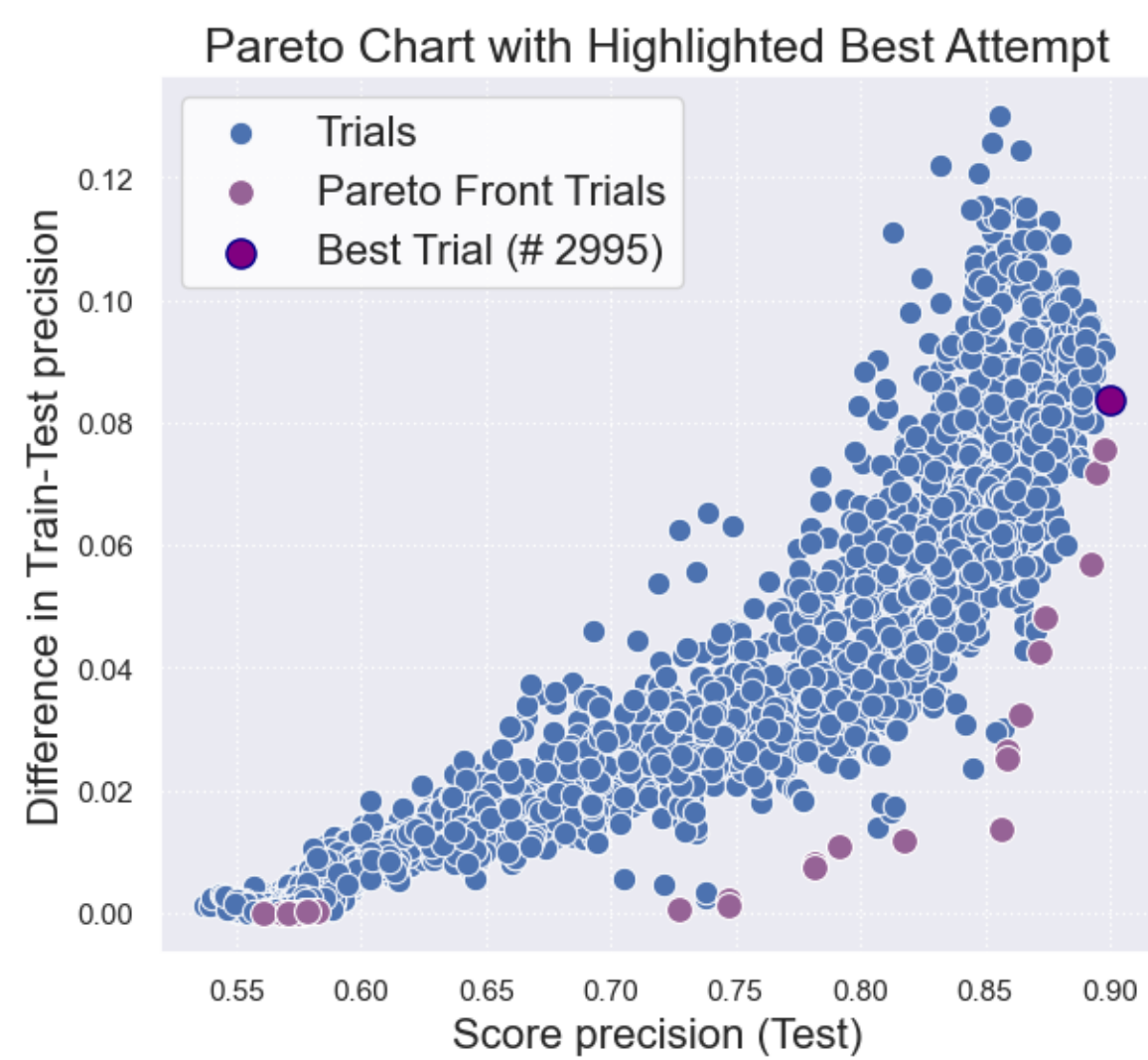
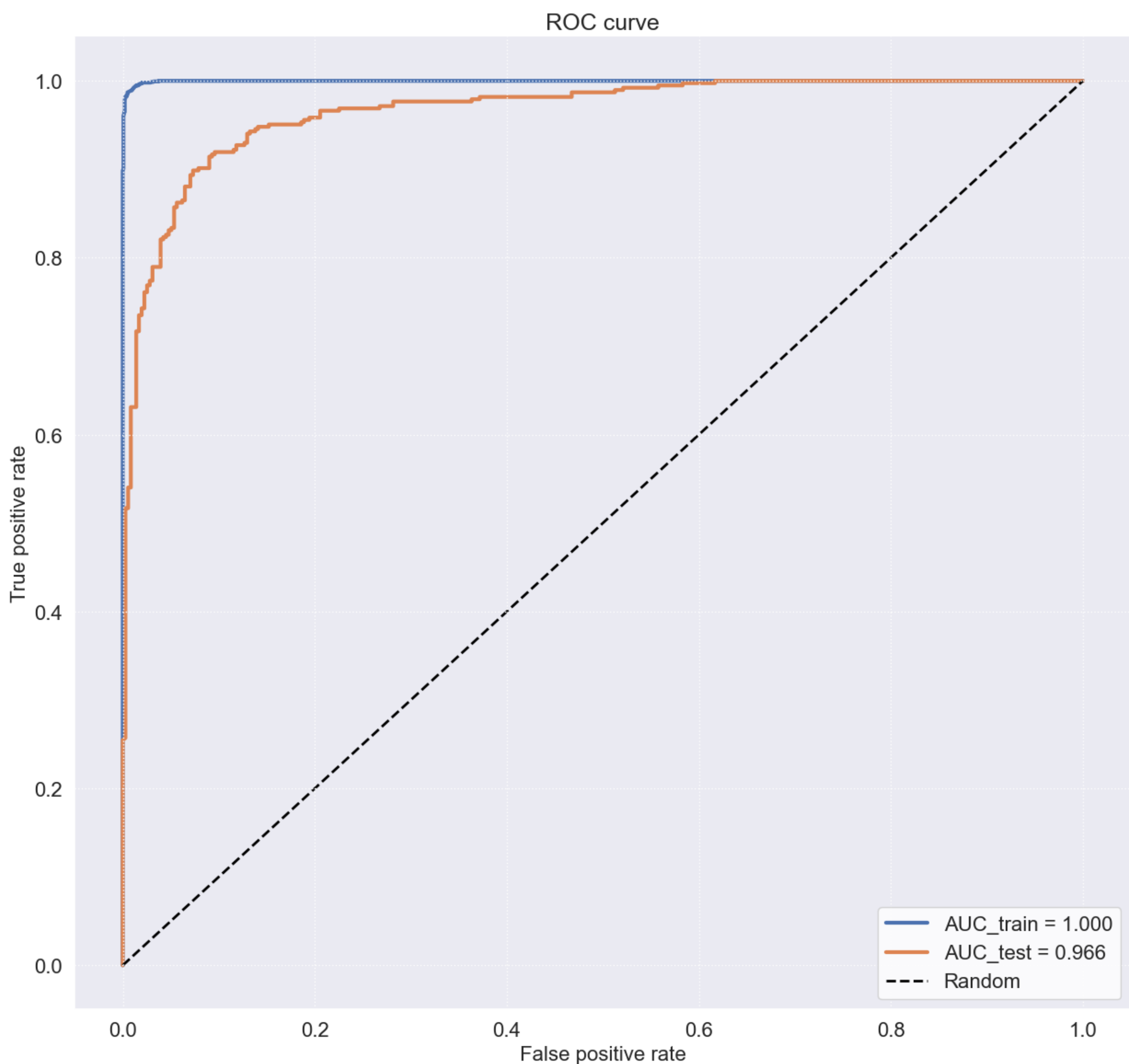
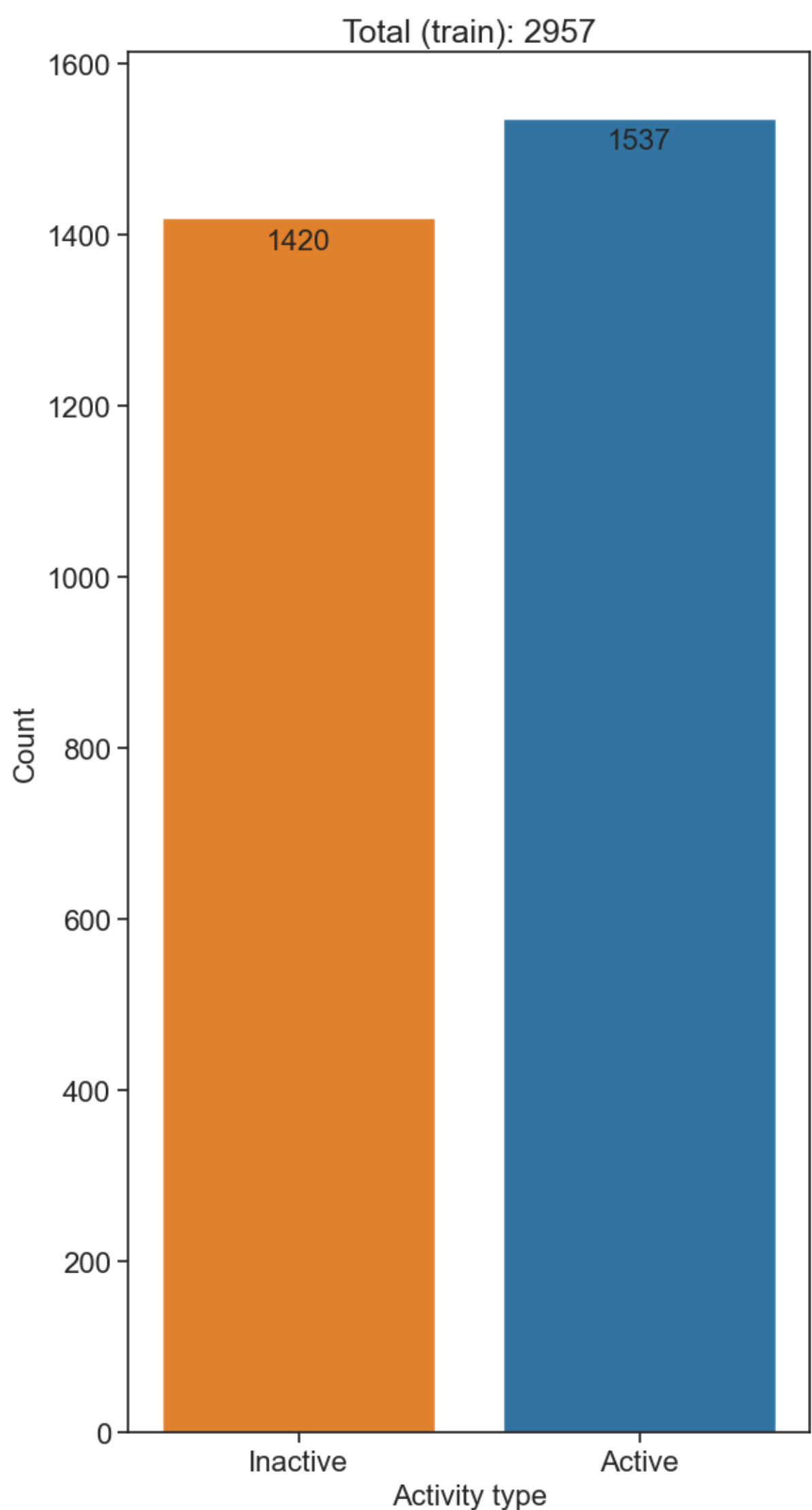


XGBoost Parameters	Value
alpha	3.1017
colsample_bytree	0.5506
gamma	0.5151
lambda	2.3617
learning_rate	0.0516
max_depth	10.0
min_child_weight	2.0
n_estimators	740.0
reg_alpha	0.2716
reg_lambda	0.8429
scale_pos_weight	2.4869
subsample	0.9822

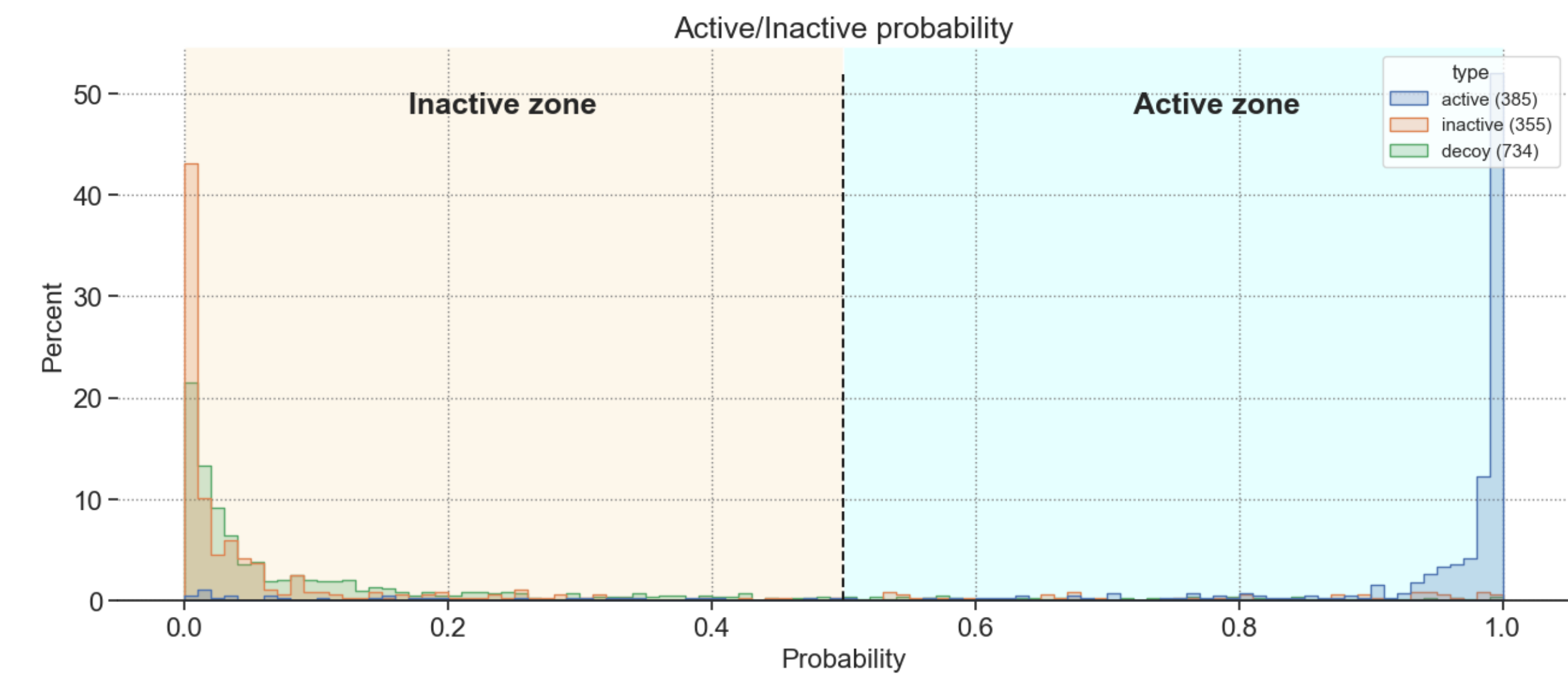
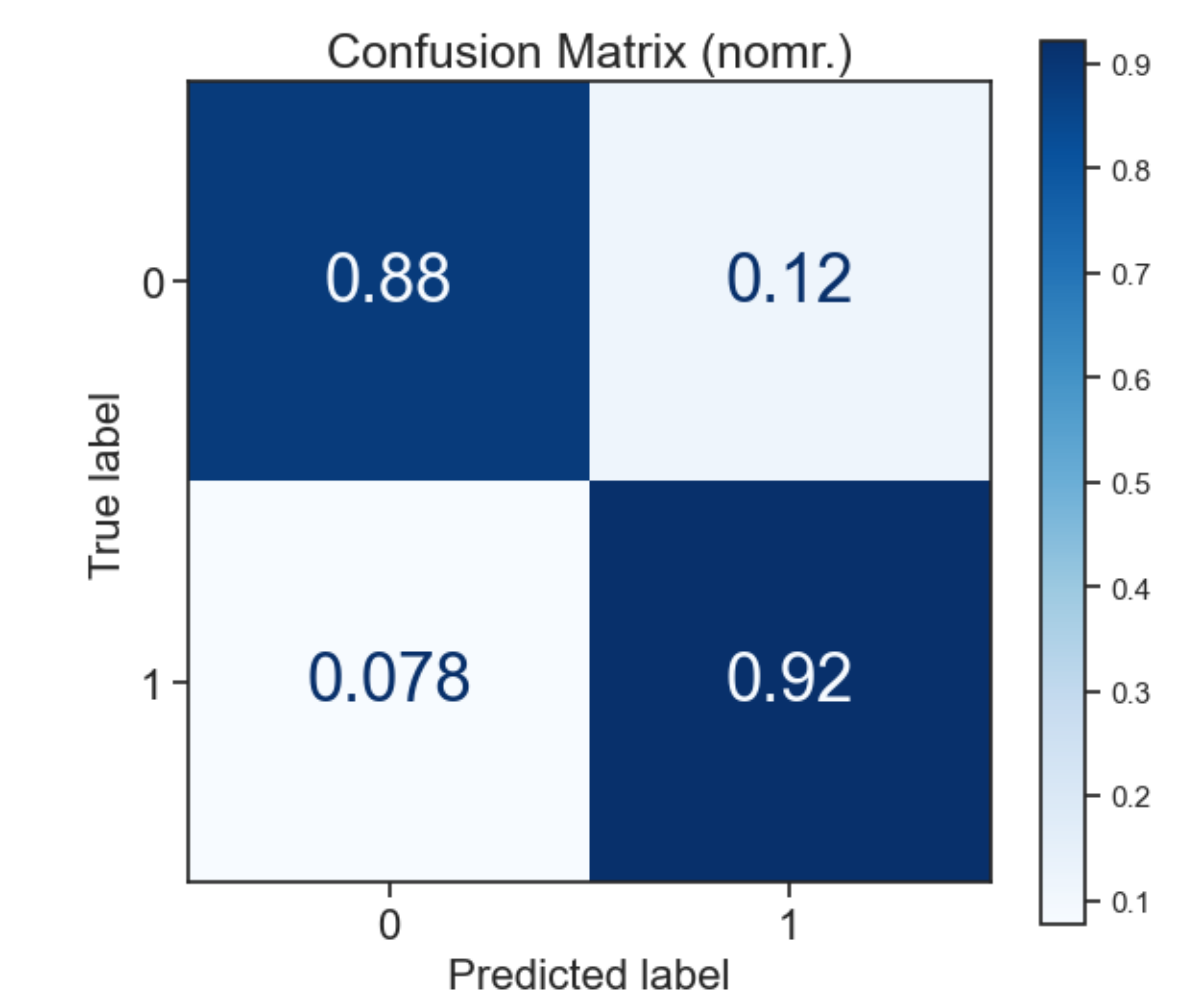
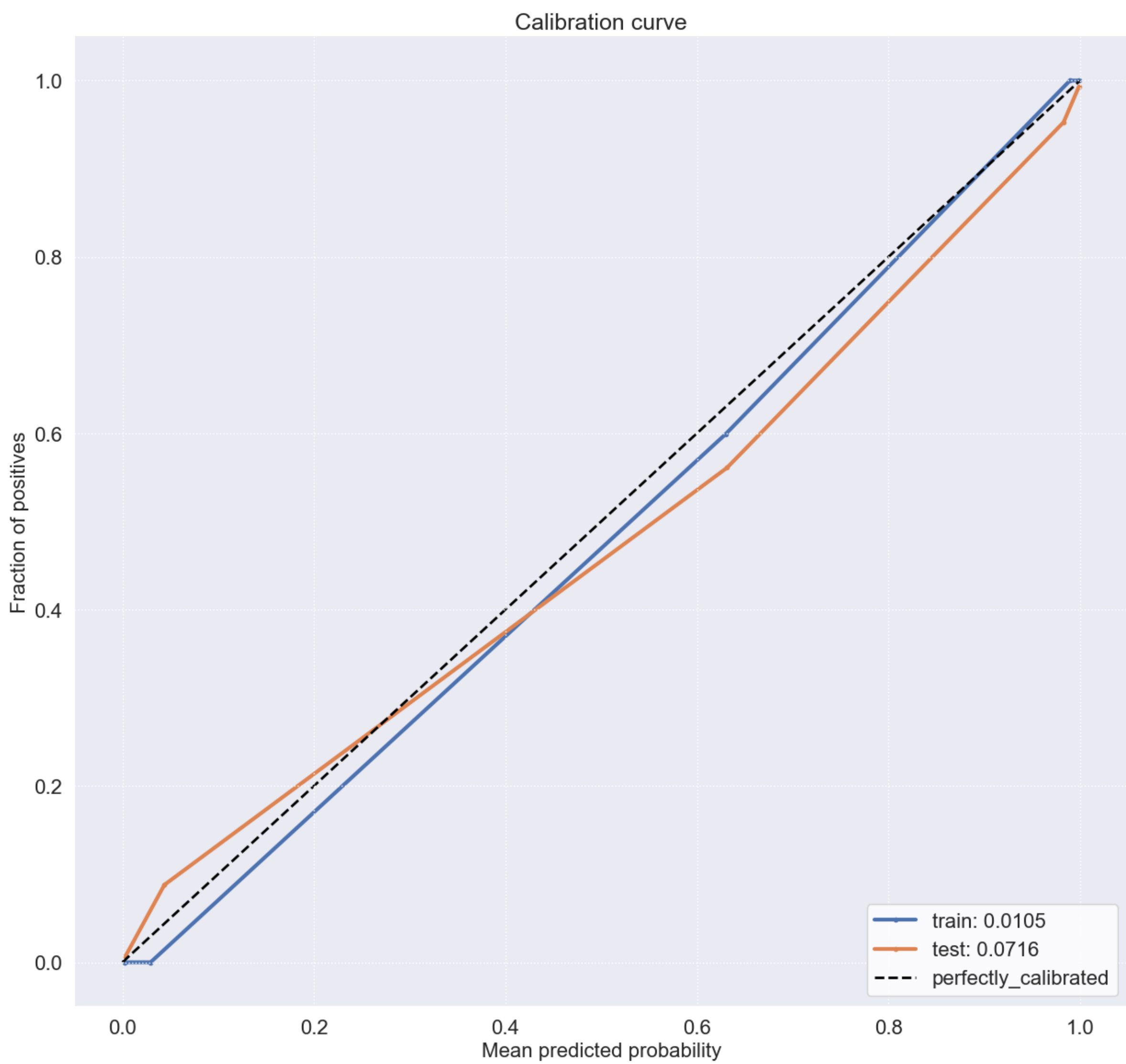
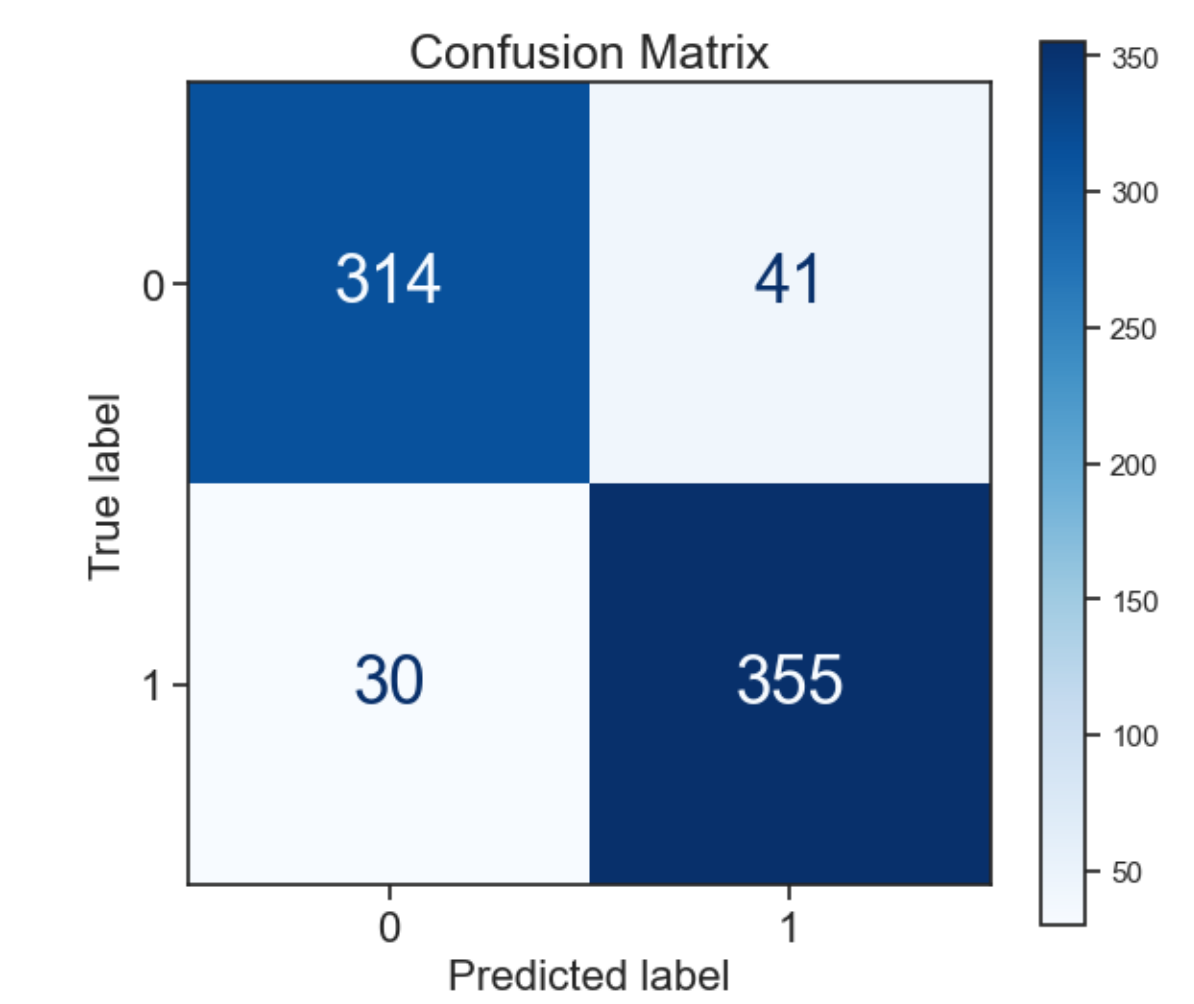


Metric	Train	Test
AUC	0.9987	0.9681
accuracy	0.9797	0.9068
balanced accuracy	0.979	0.9047
recall_(sens)	0.998	0.9558
specificity	0.9599	0.8535
precision	0.9642	0.8762
f1_score	0.9797	0.9064

Protein: P35462 - metric: precision

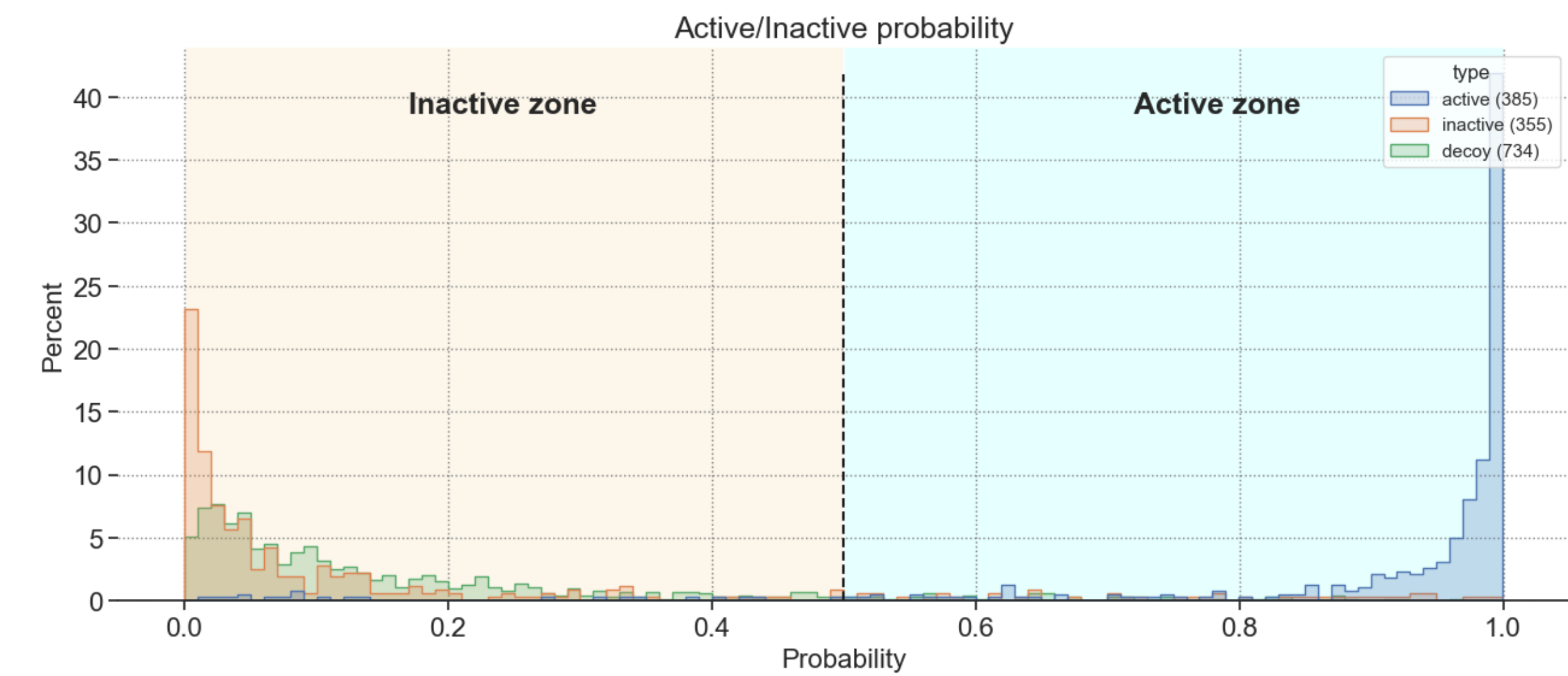
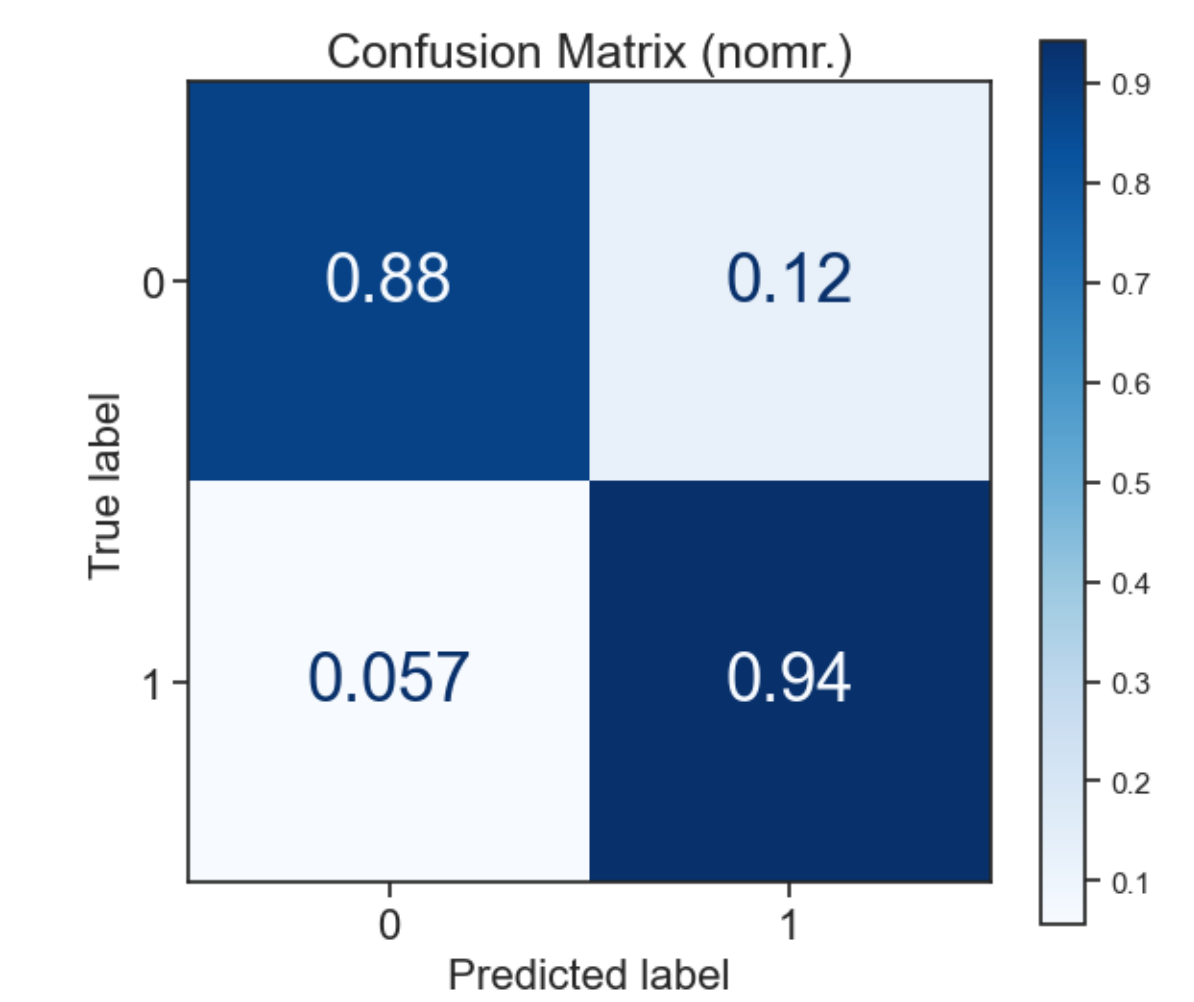
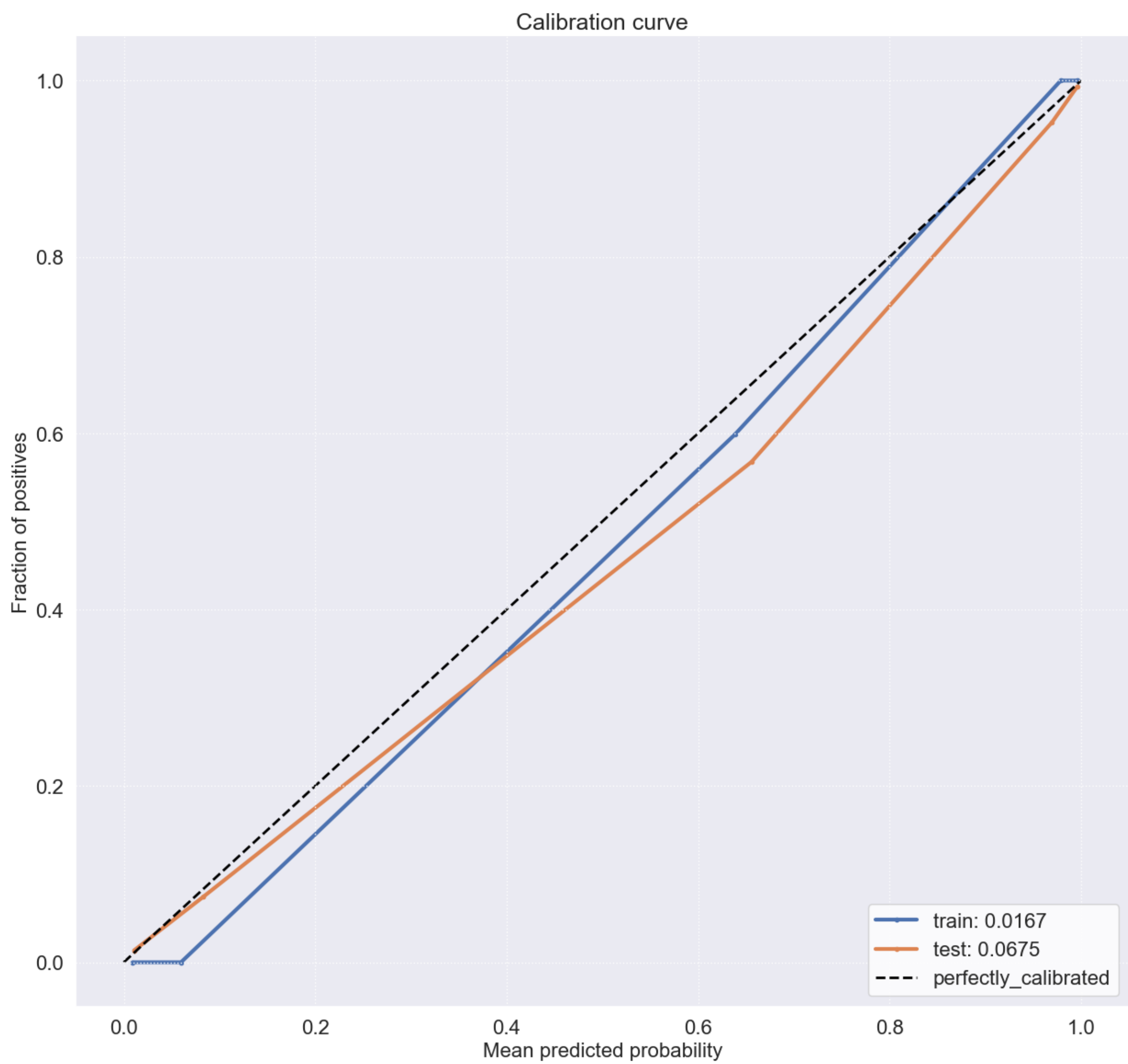
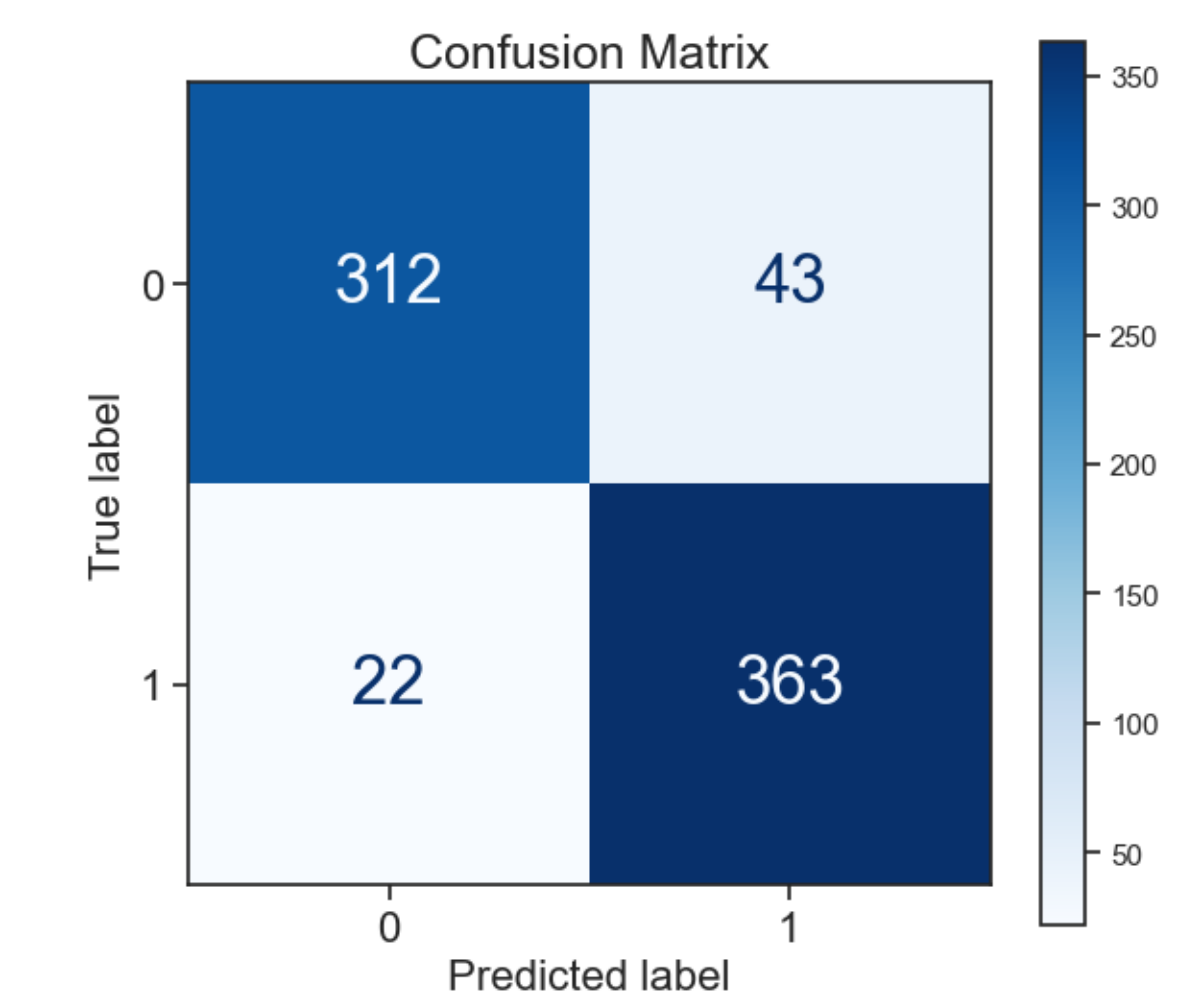
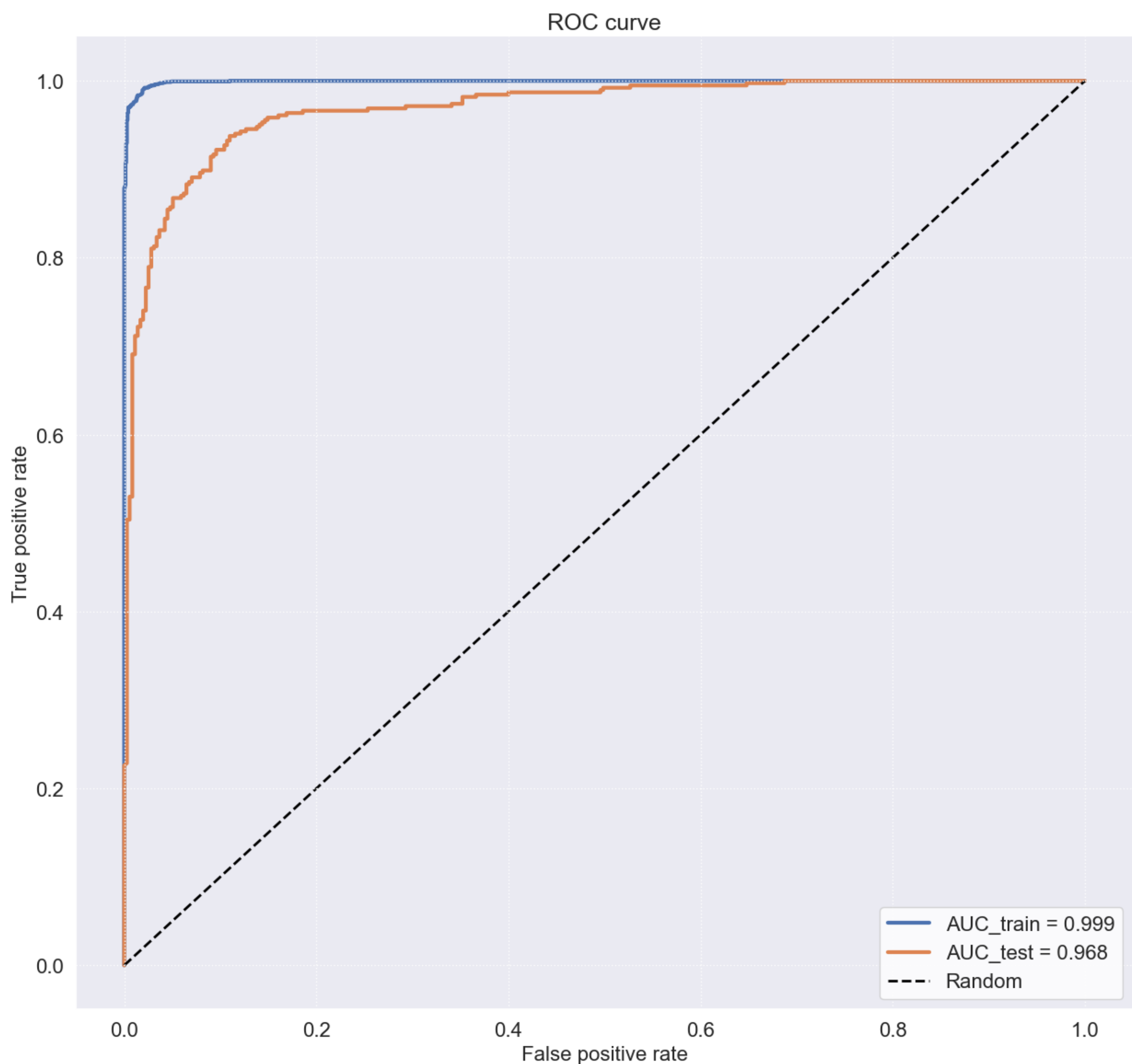
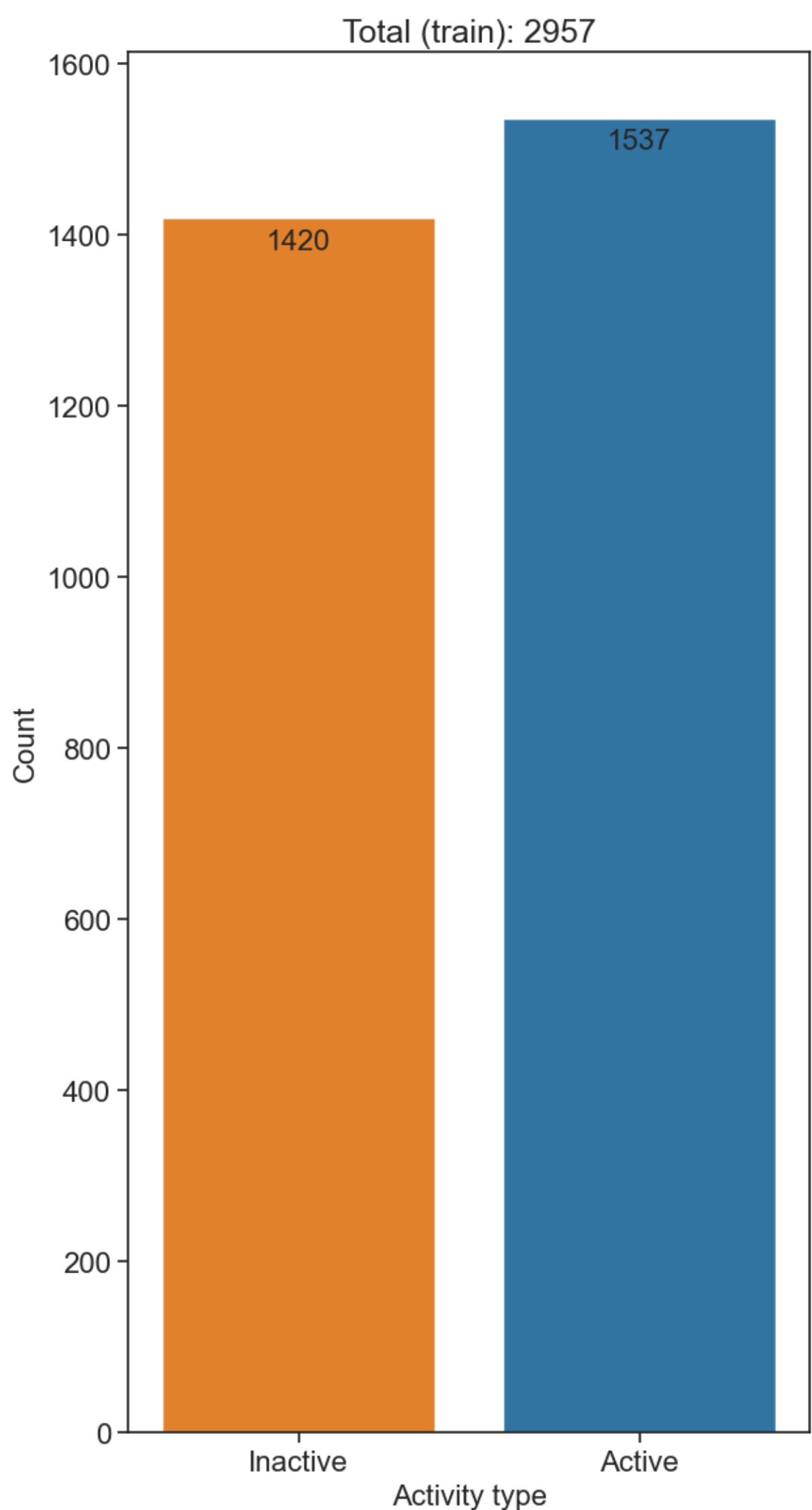


XGBoost Parameters	Value
alpha	4.2194
colsample_bytree	0.5644
gamma	0.5613
lambda	4.6635
learning_rate	0.2713
max_depth	9.0
min_child_weight	2.0
n_estimators	404.0
reg_alpha	0.0532
reg_lambda	0.4071
scale_pos_weight	1.6079
subsample	0.8494



Metric	Train	Test
AUC	0.9997	0.9663
accuracy	0.9885	0.9041
balanced accuracy	0.9881	0.9033
recall_(sens)	0.998	0.9221
specificity	0.9782	0.8845
precision	0.9802	0.8965
f1_score	0.9885	0.904

Protein: P35462 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9992	0.9683
accuracy	0.9821	0.9122
balanced accuracy	0.9815	0.9109
recall_(sens)	0.9954	0.9429
specificity	0.9676	0.8789
precision	0.9708	0.8941
f1_score	0.9821	0.912