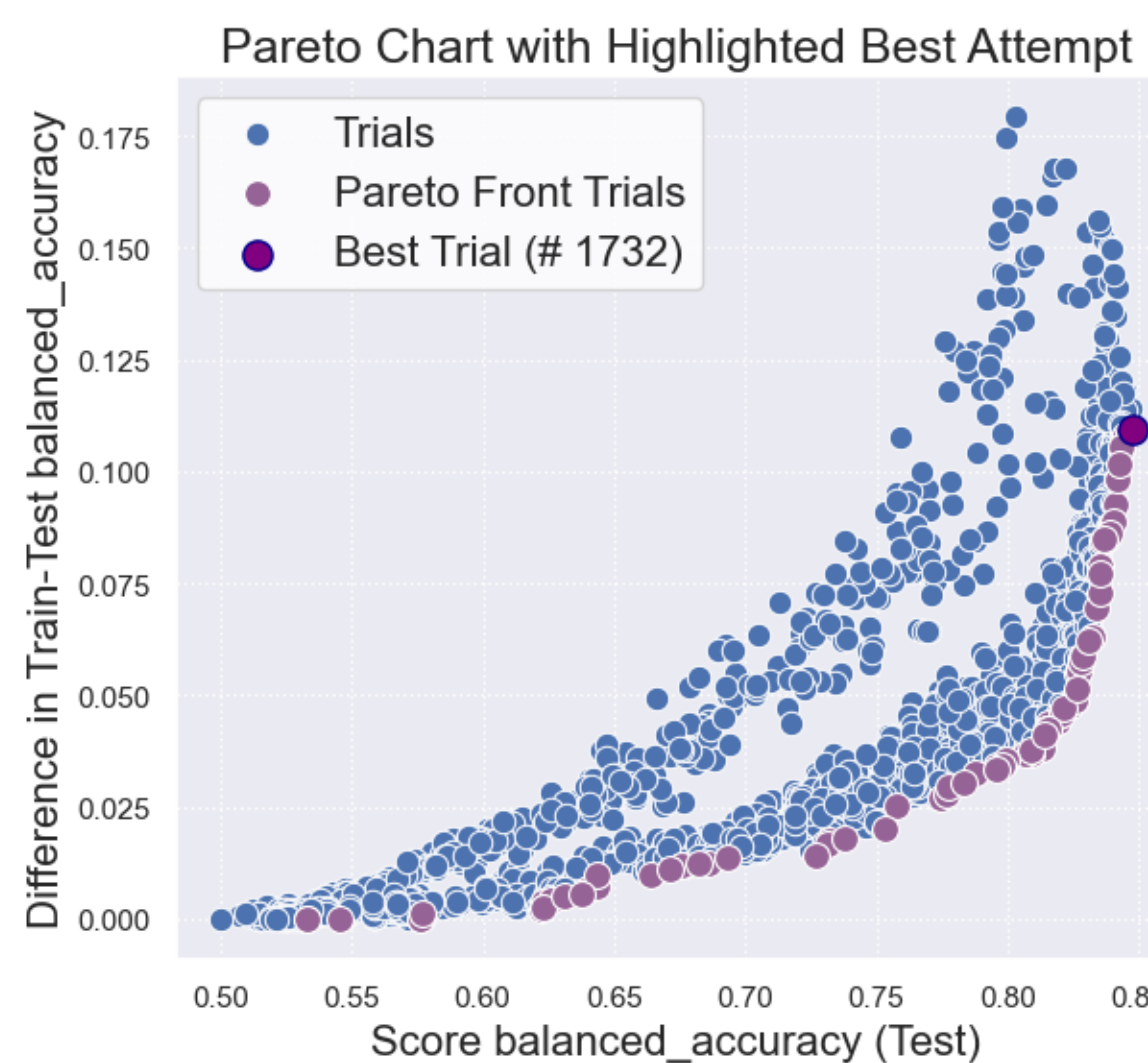
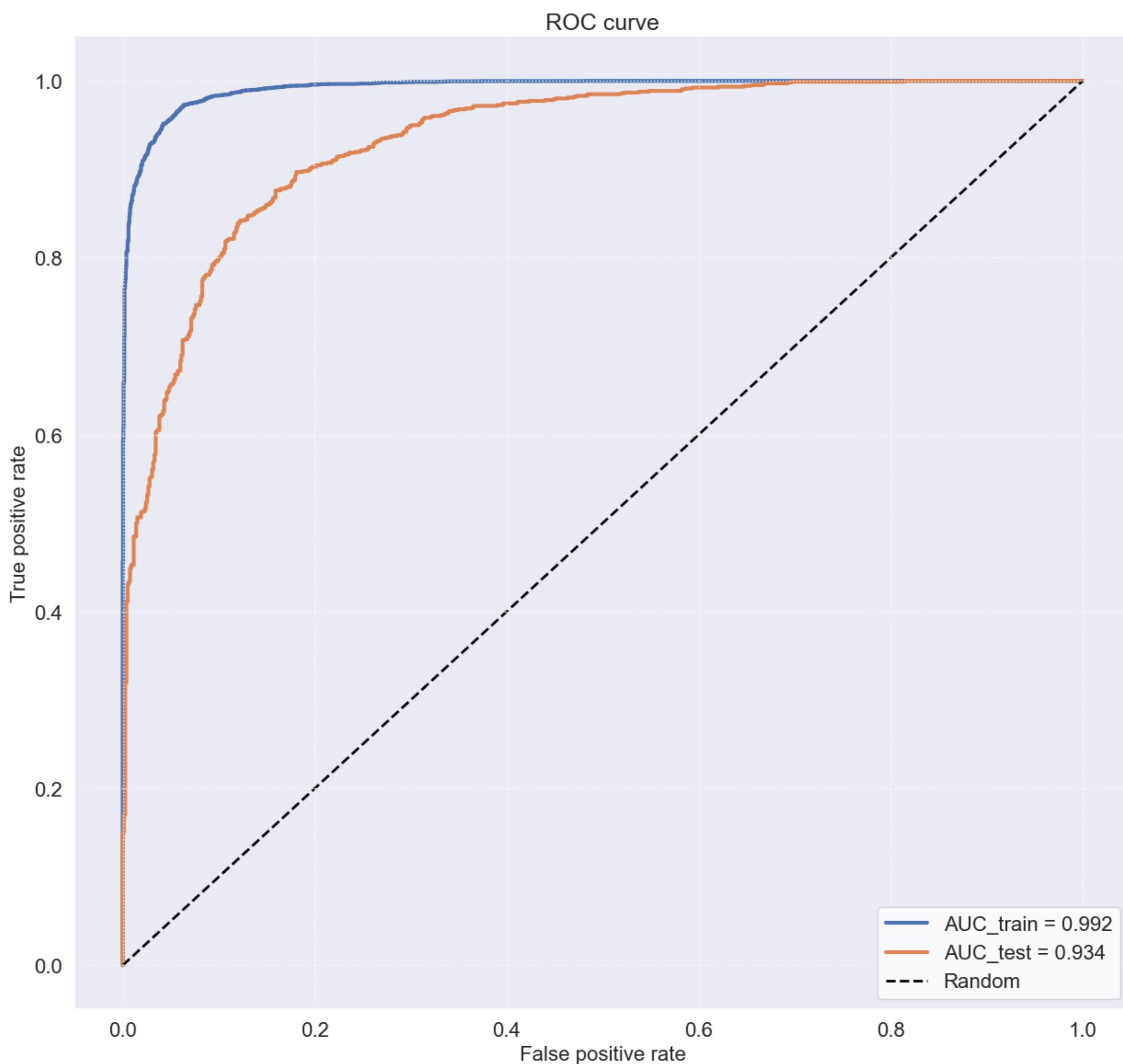
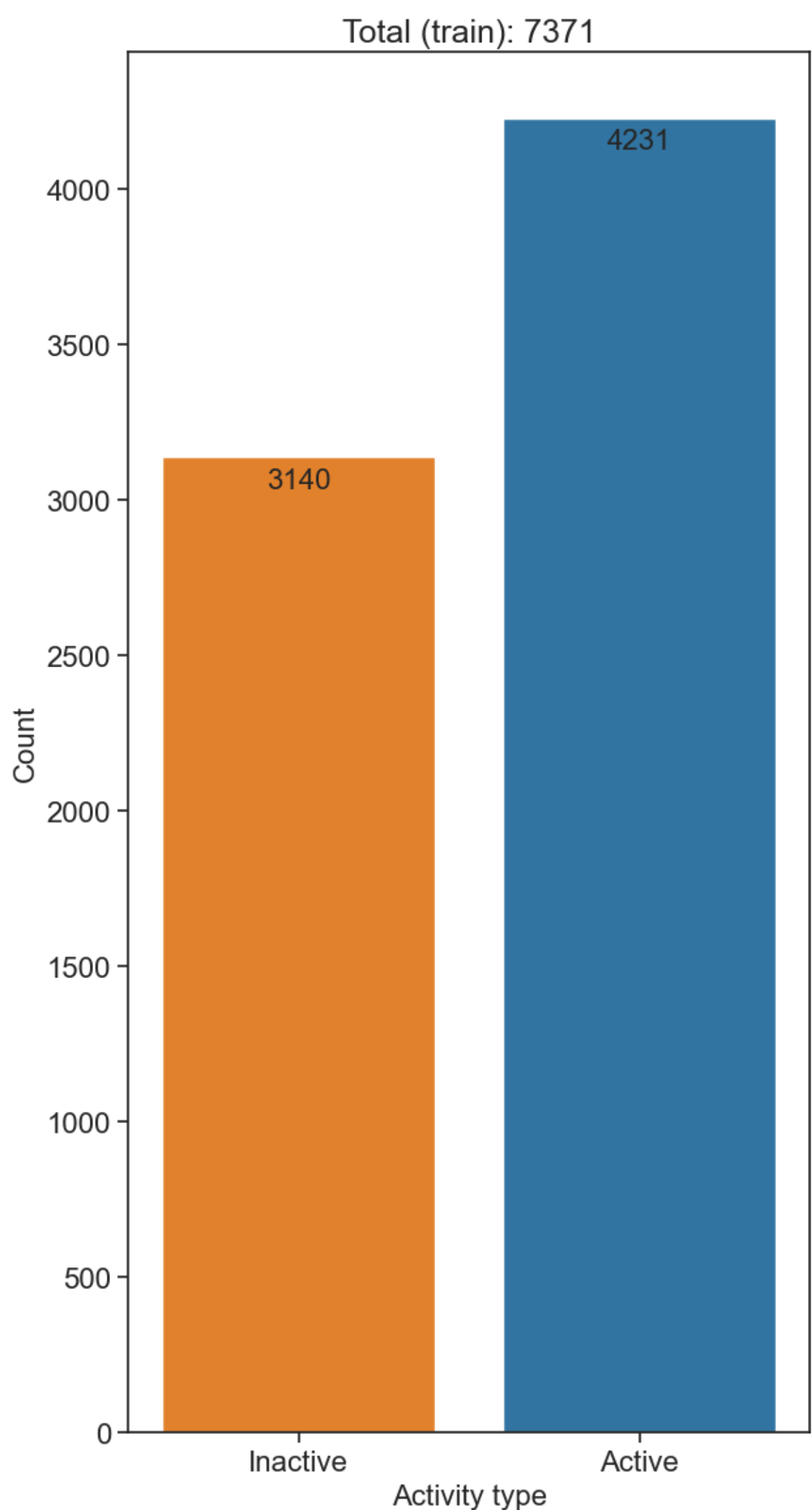
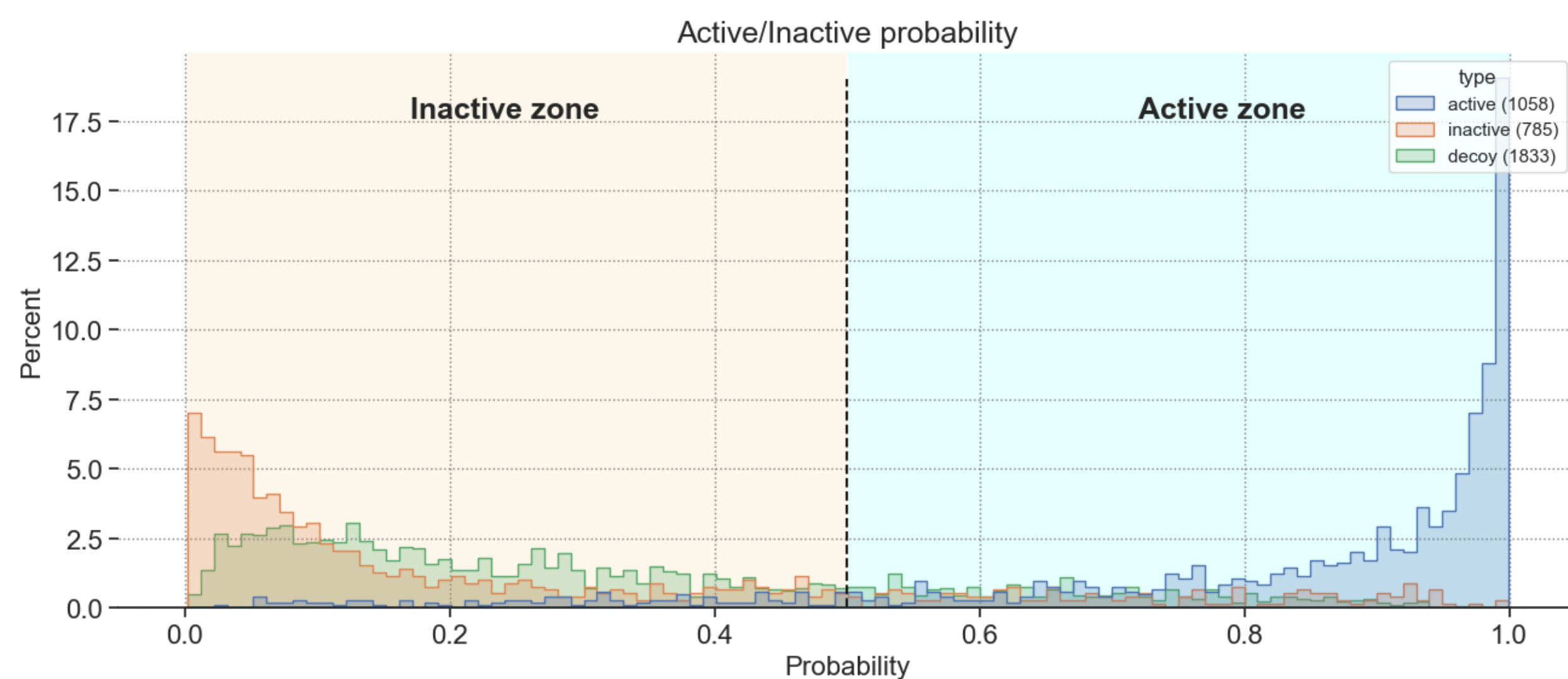
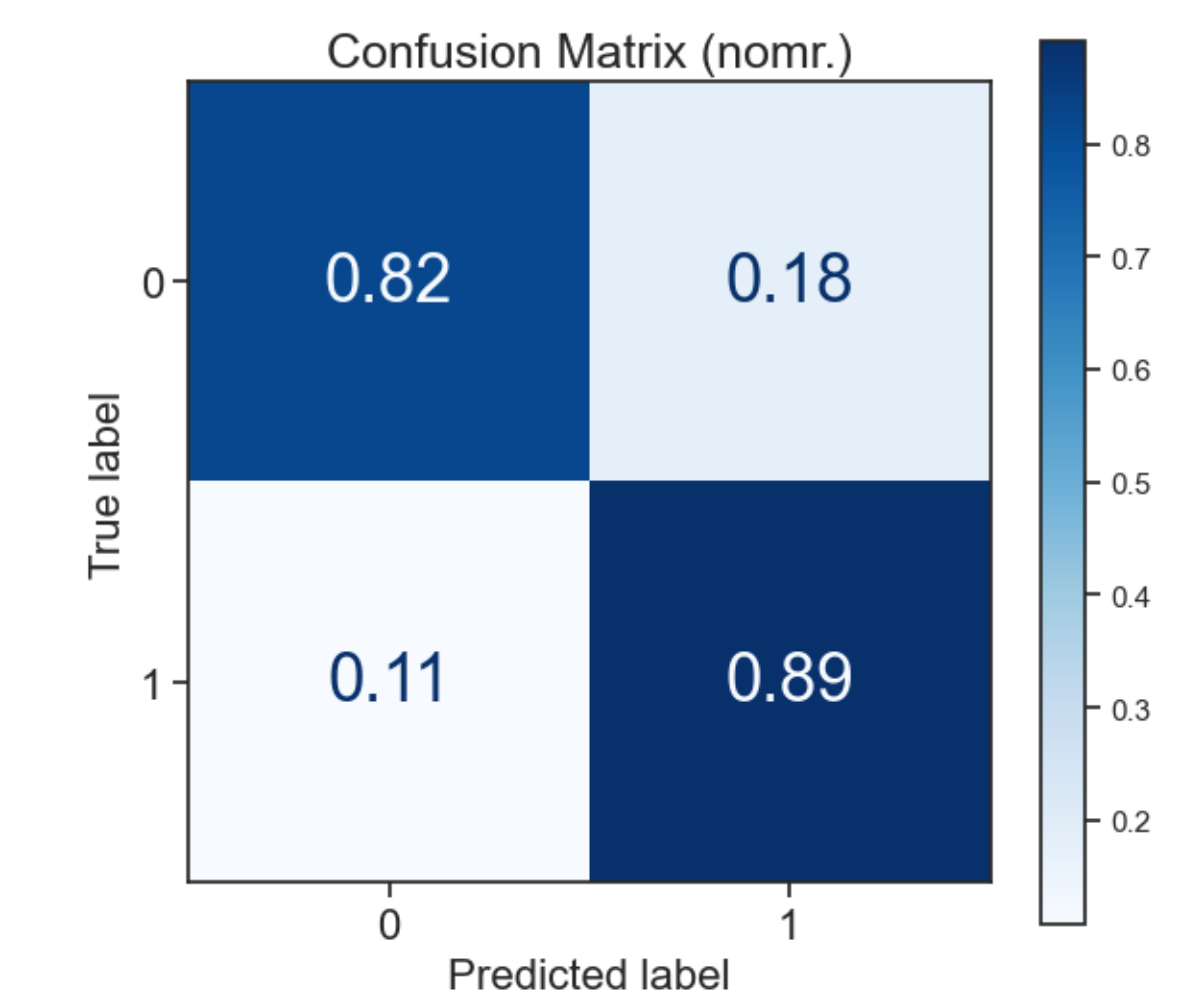
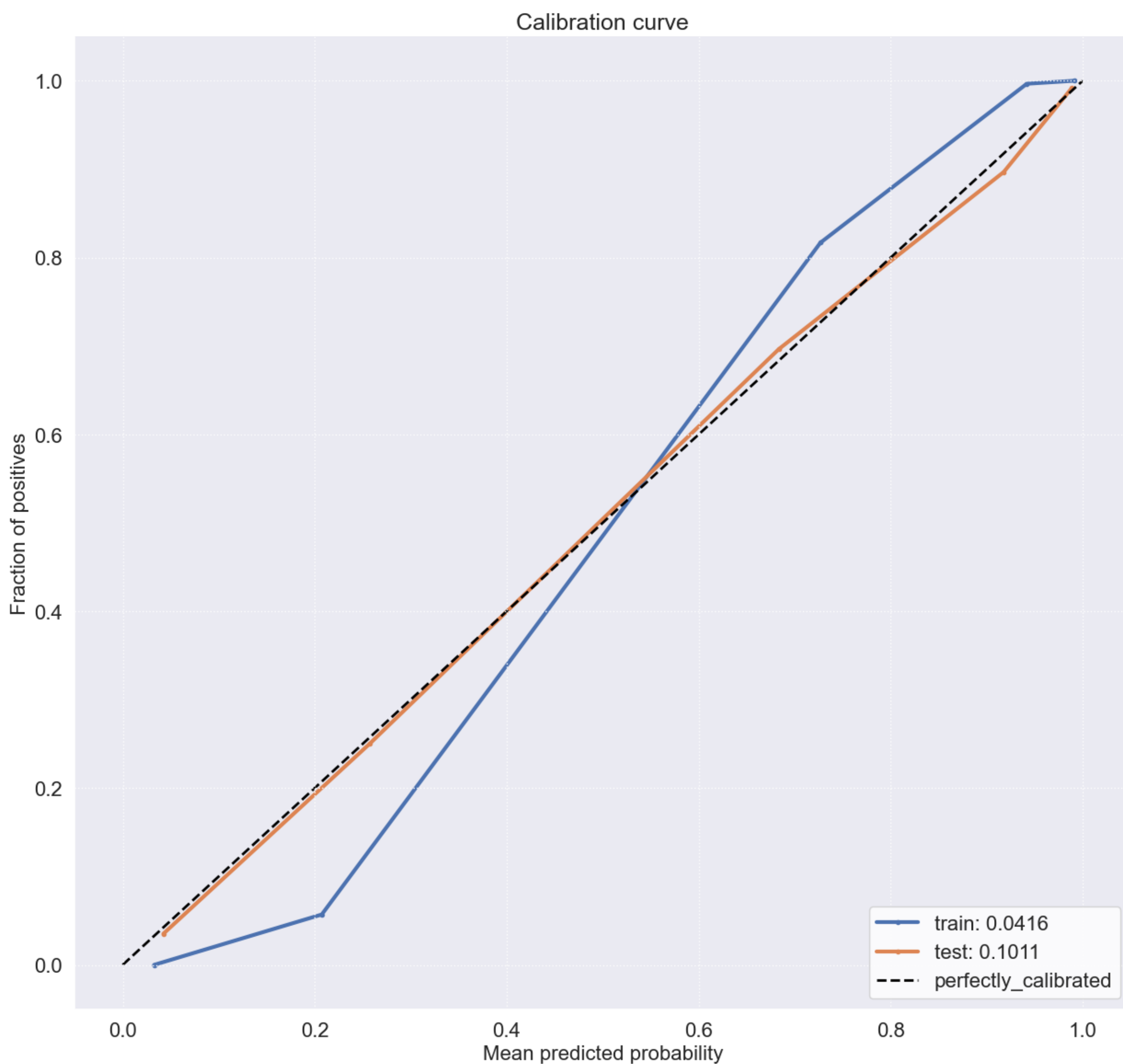
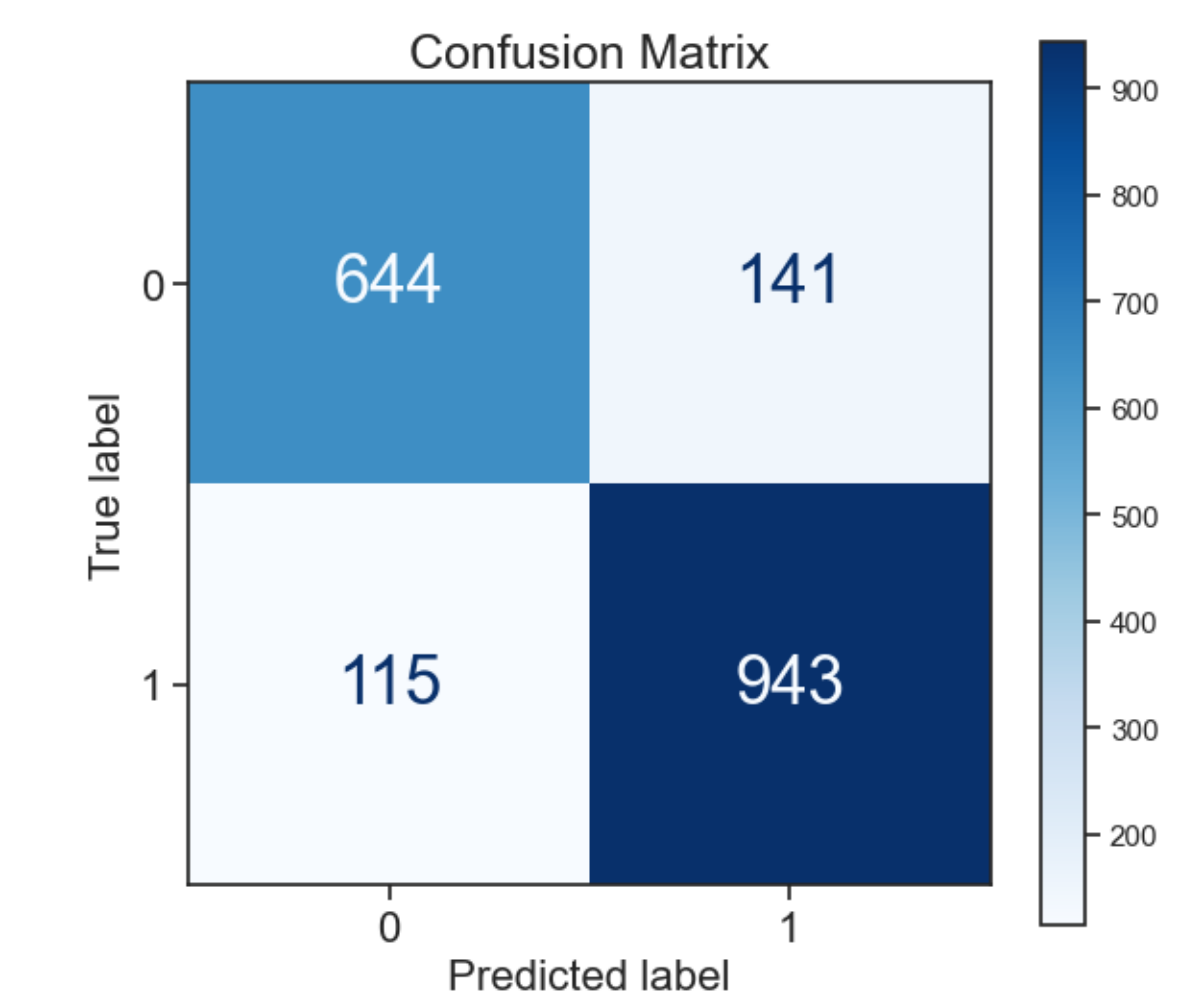


Protein: P34972 - metric: balanced_accuracy

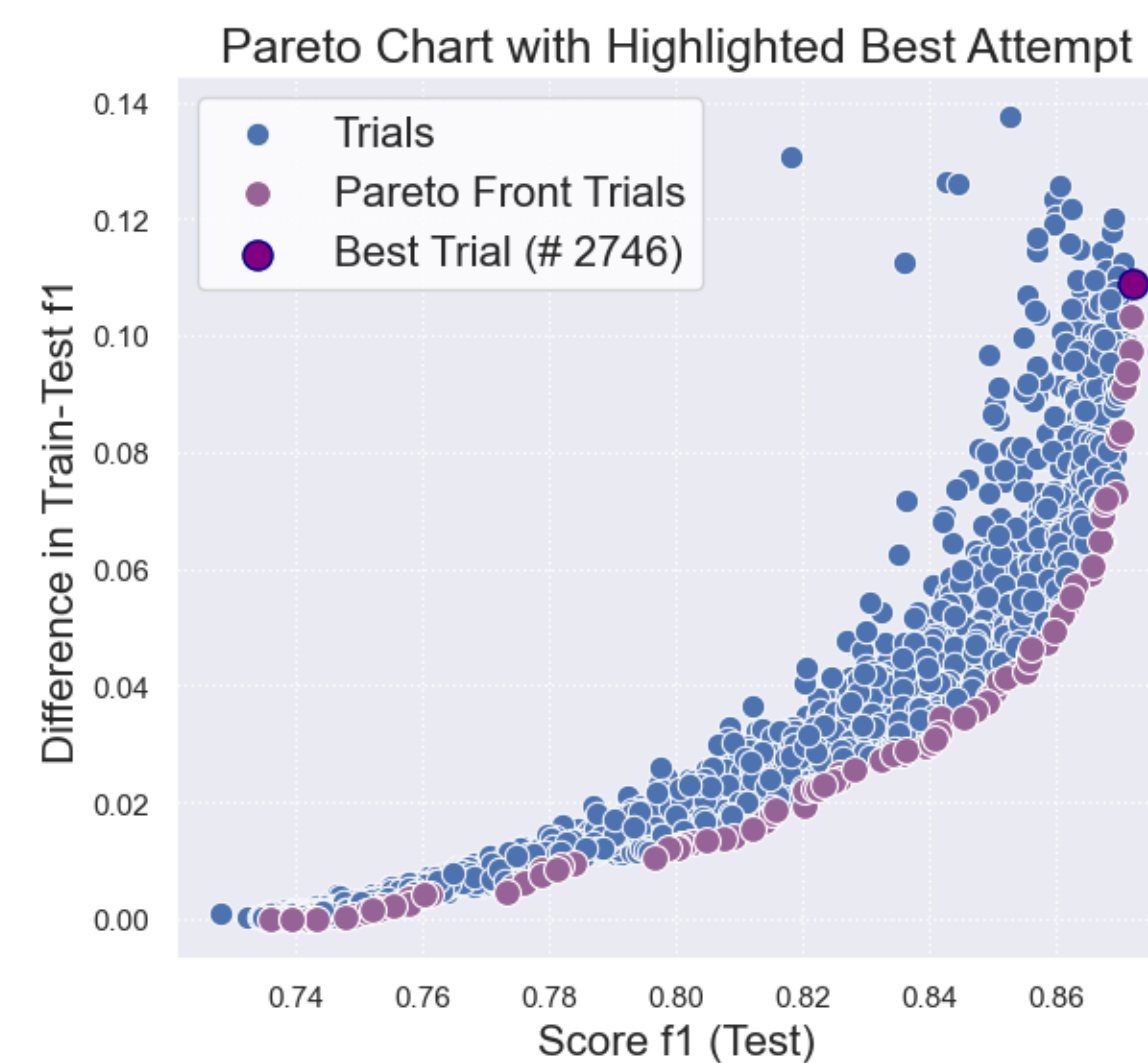
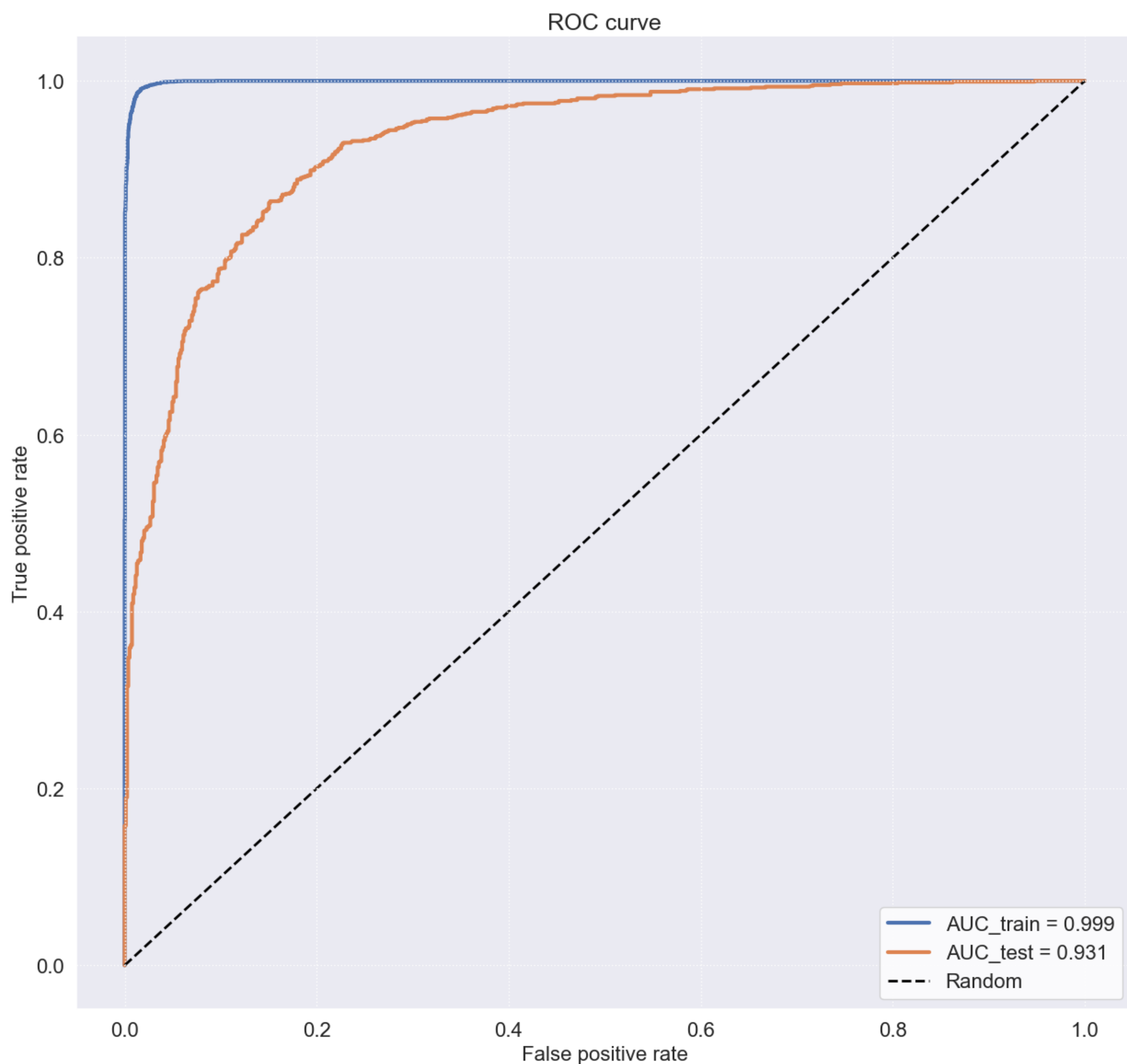
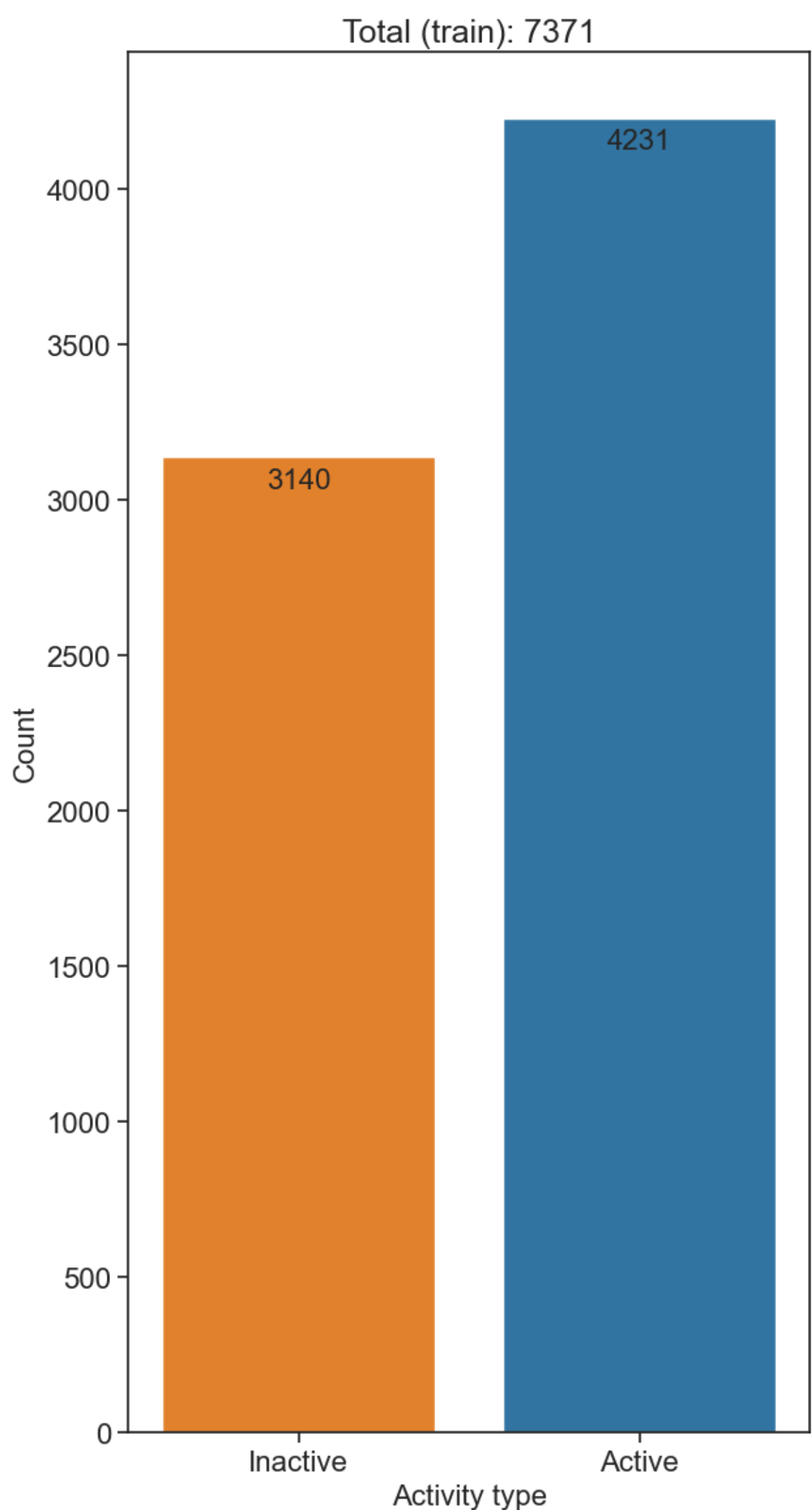


XGBoost Parameters	Value
alpha	0.3607
colsample_bytree	0.5665
gamma	0.0488
lambda	4.3803
learning_rate	0.0339
max_depth	10.0
min_child_weight	1.0
n_estimators	920.0
reg_alpha	0.7525
reg_lambda	0.7749
scale_pos_weight	1.1031
subsample	0.5225

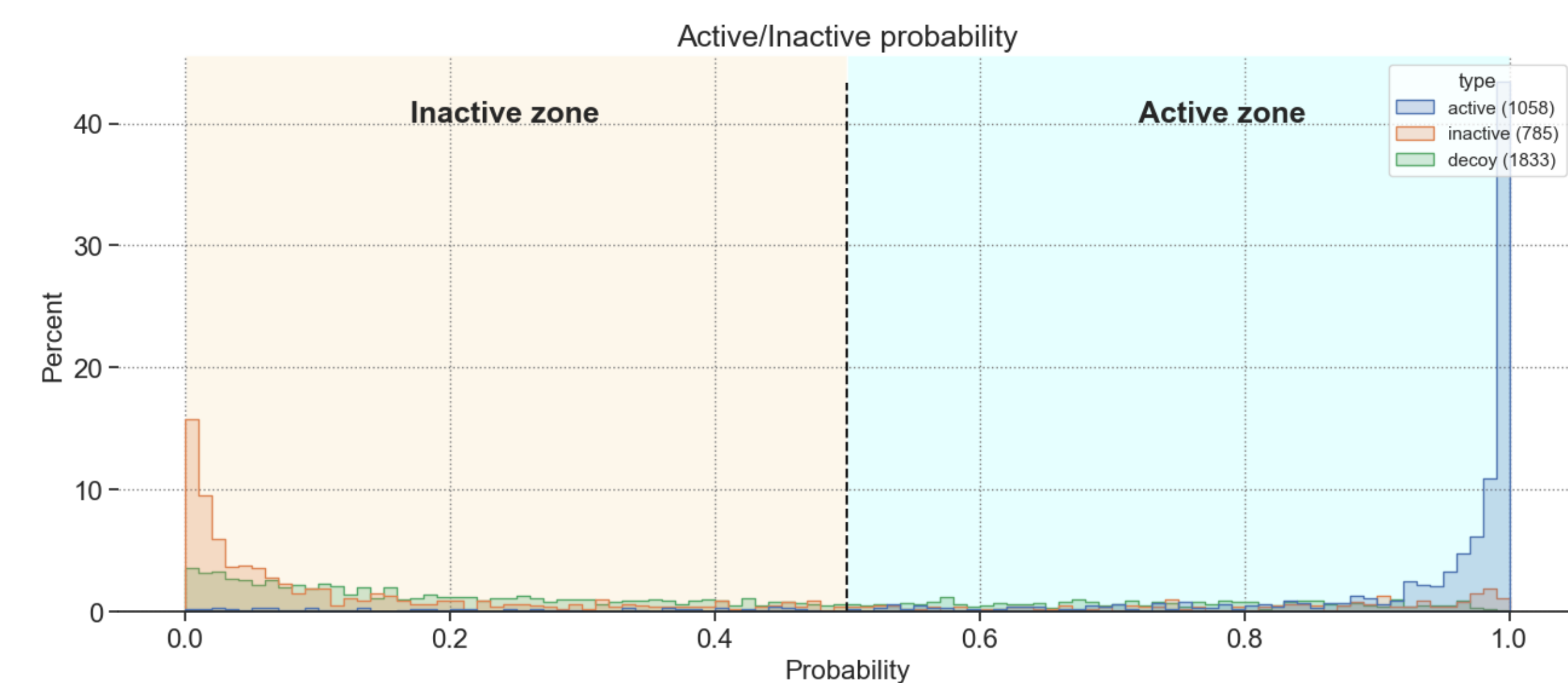
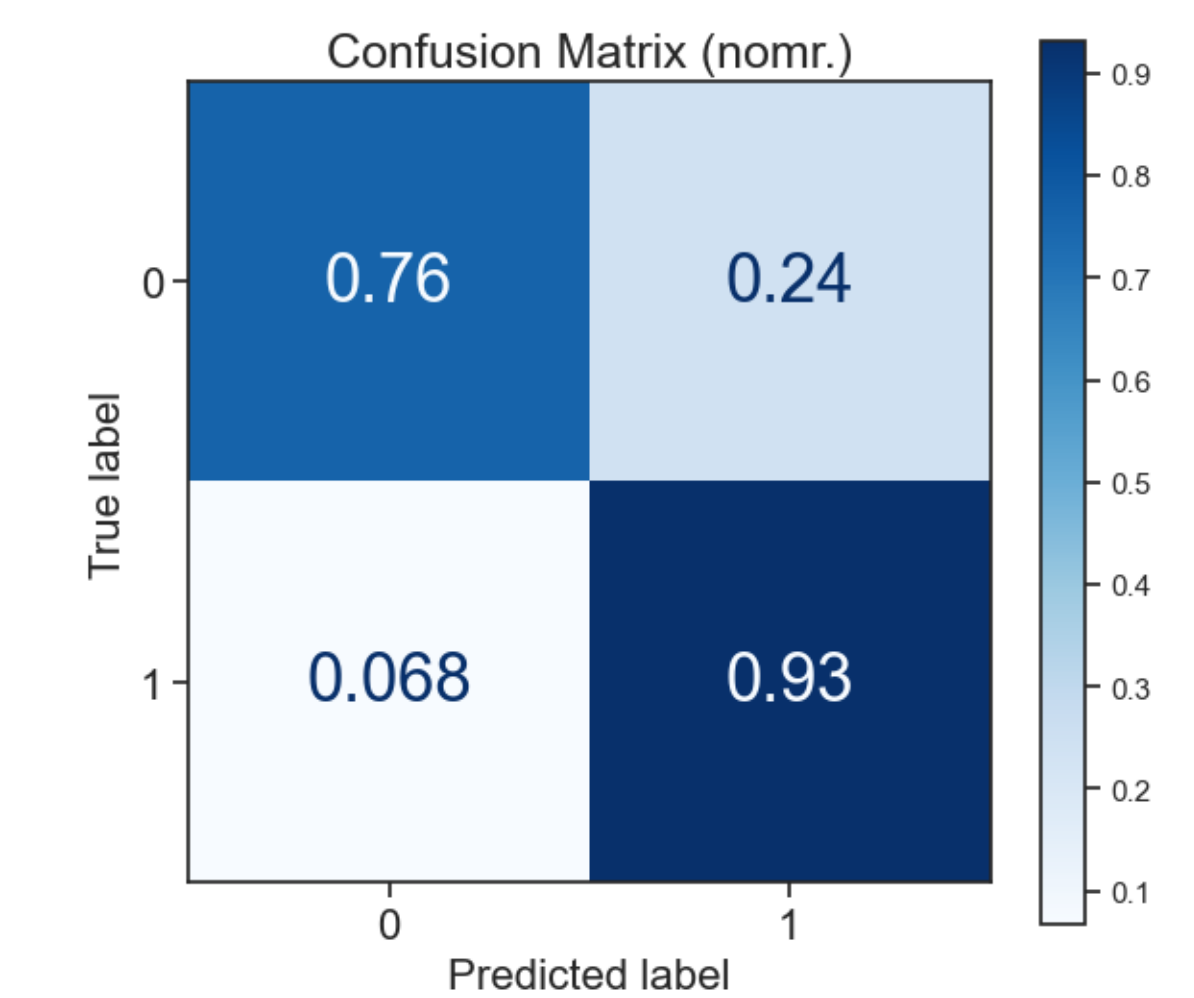
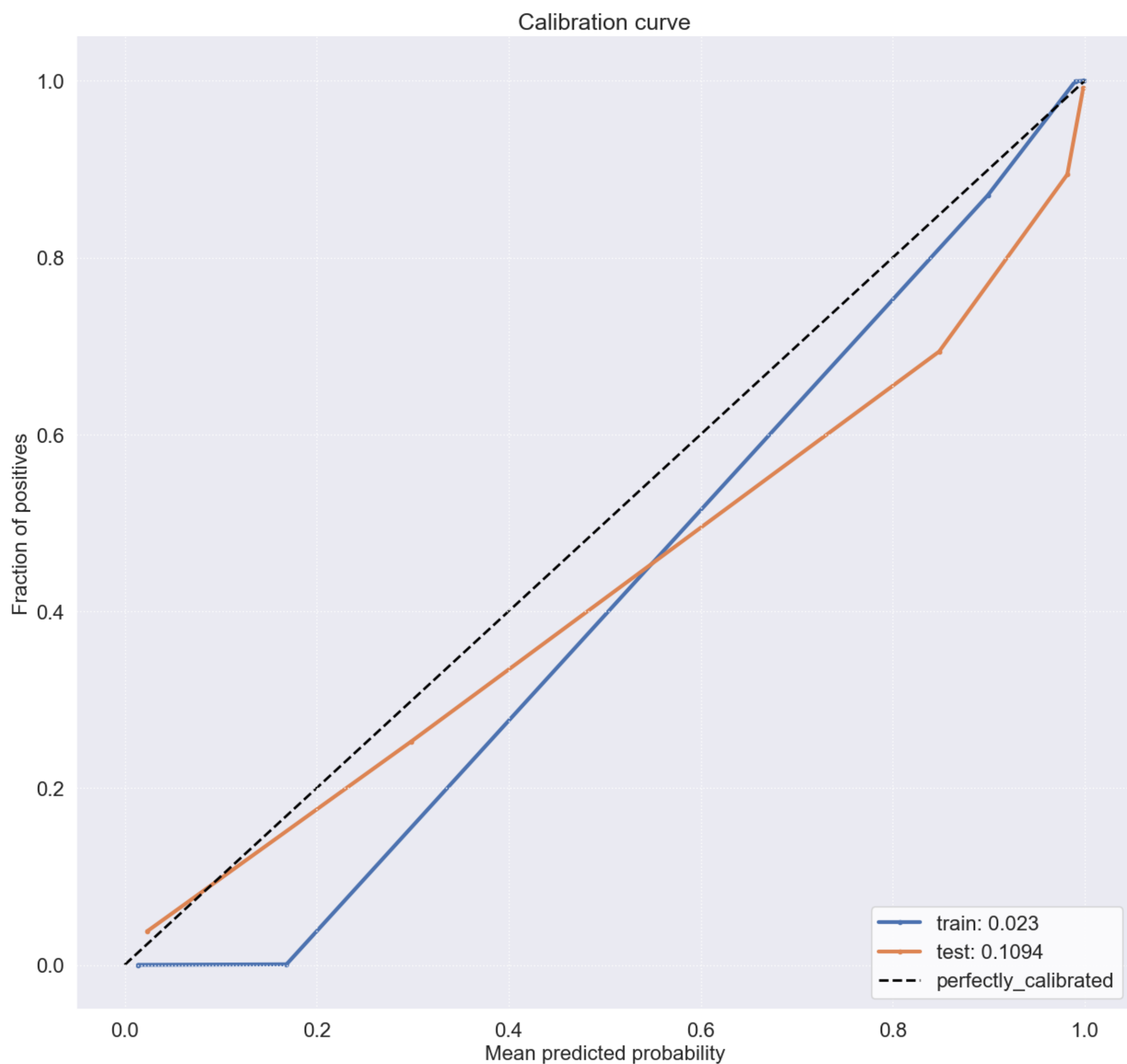
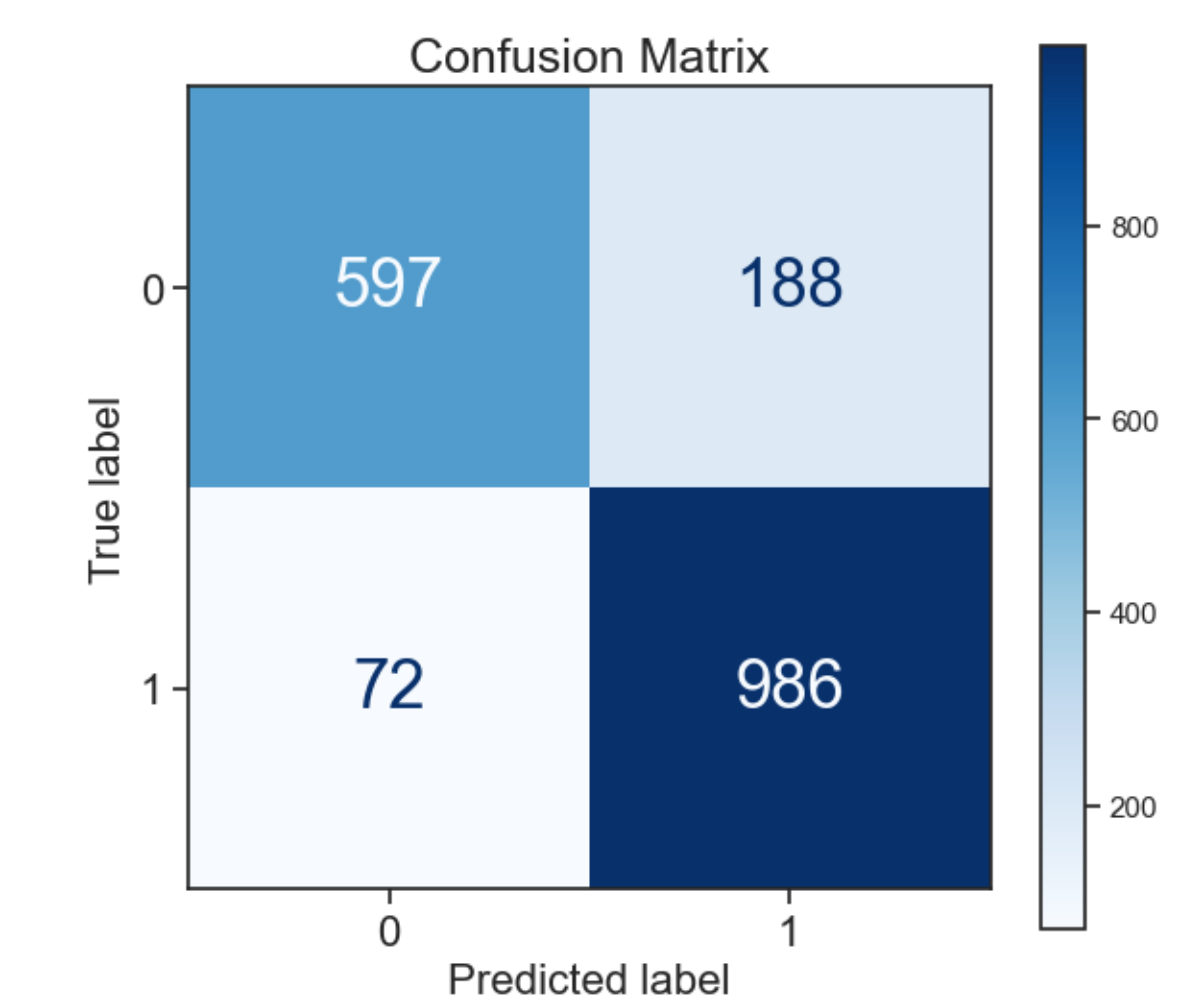


Metric	Train	Test
AUC	0.9922	0.9337
accuracy	0.9573	0.8611
balanced accuracy	0.9546	0.8558
recall_(sens)	0.9723	0.8913
specificity	0.9369	0.8204
precision	0.9541	0.8699
f1_score	0.9572	0.8608

Protein: P34972 - metric: f1

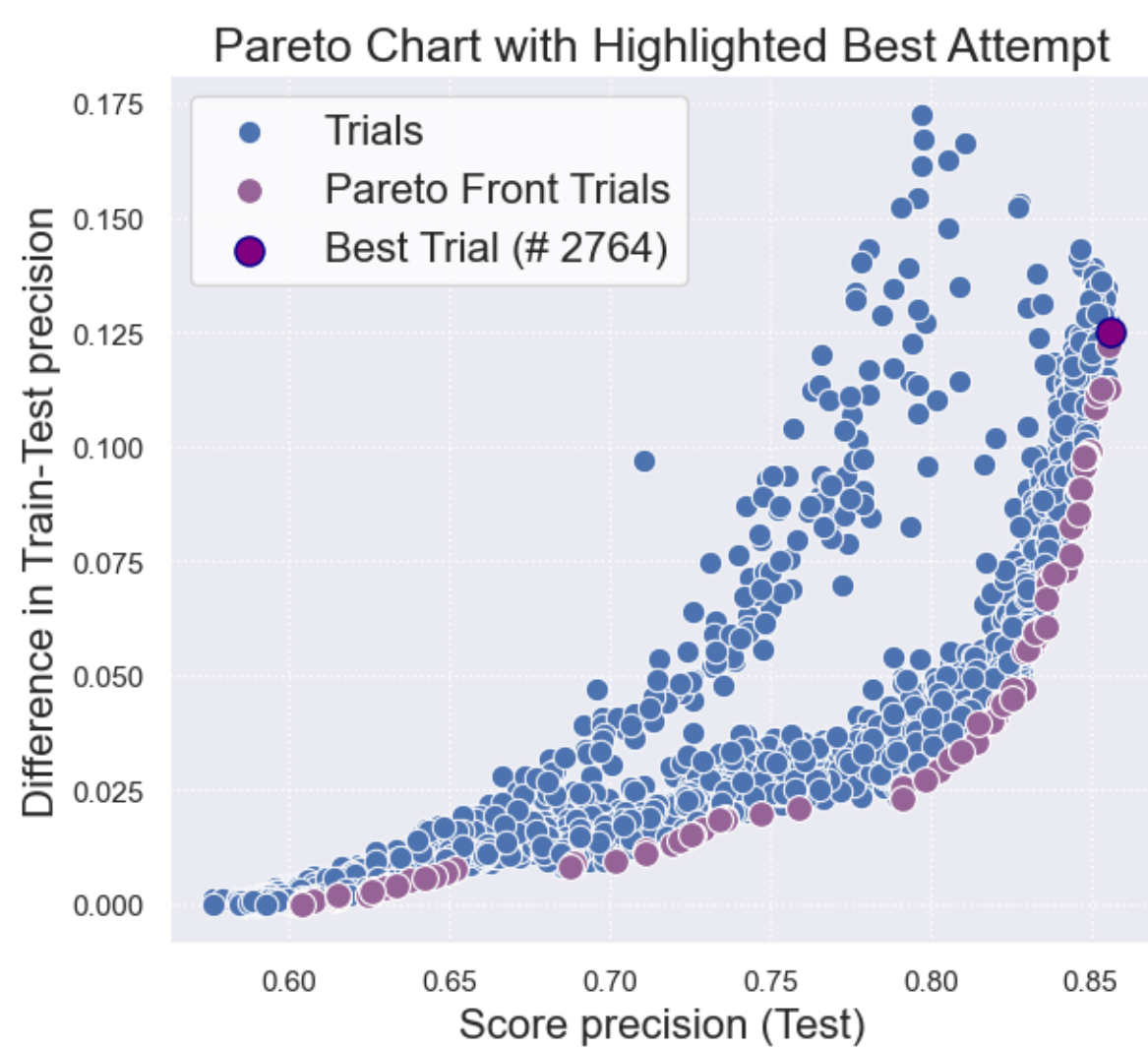
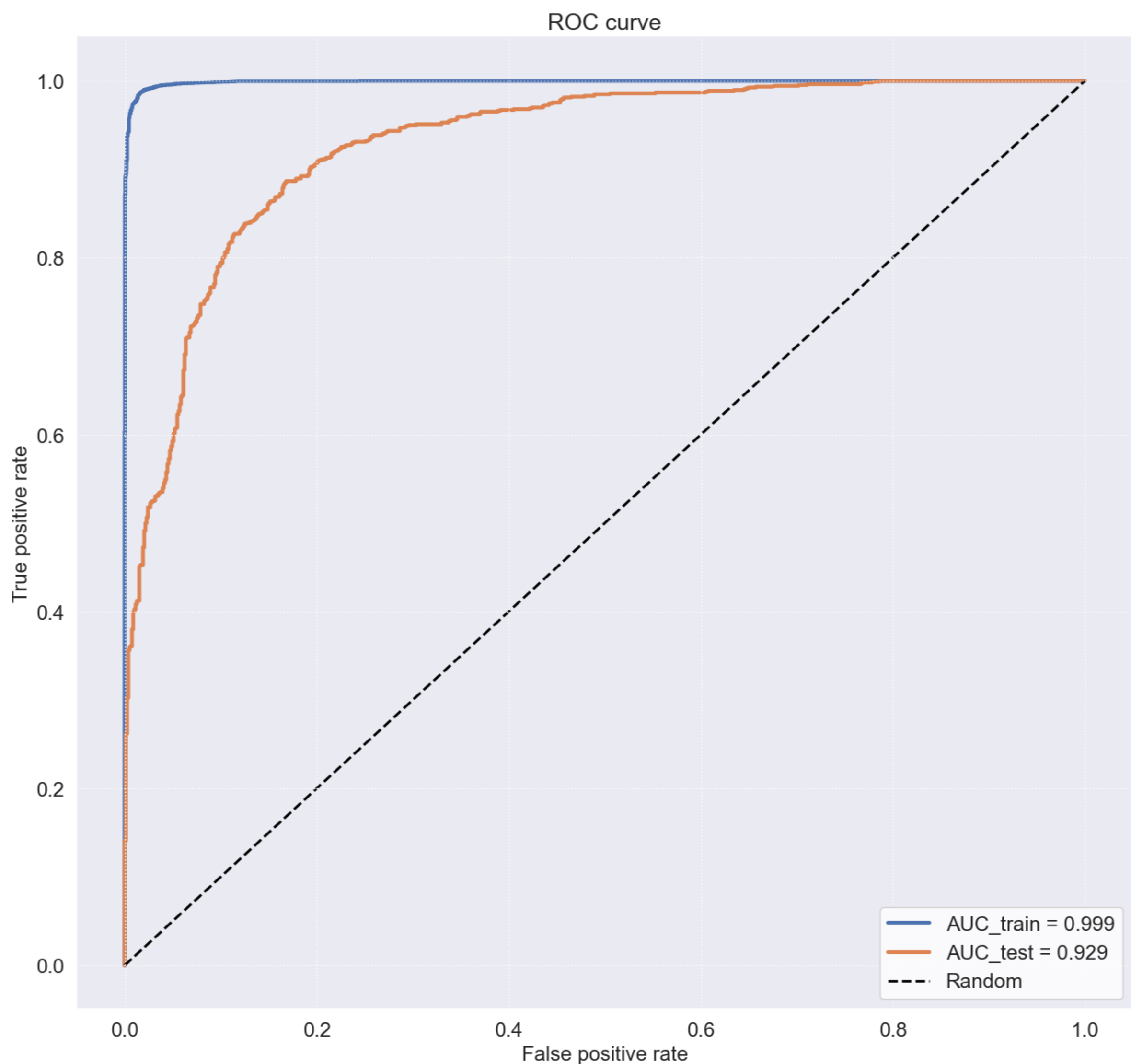
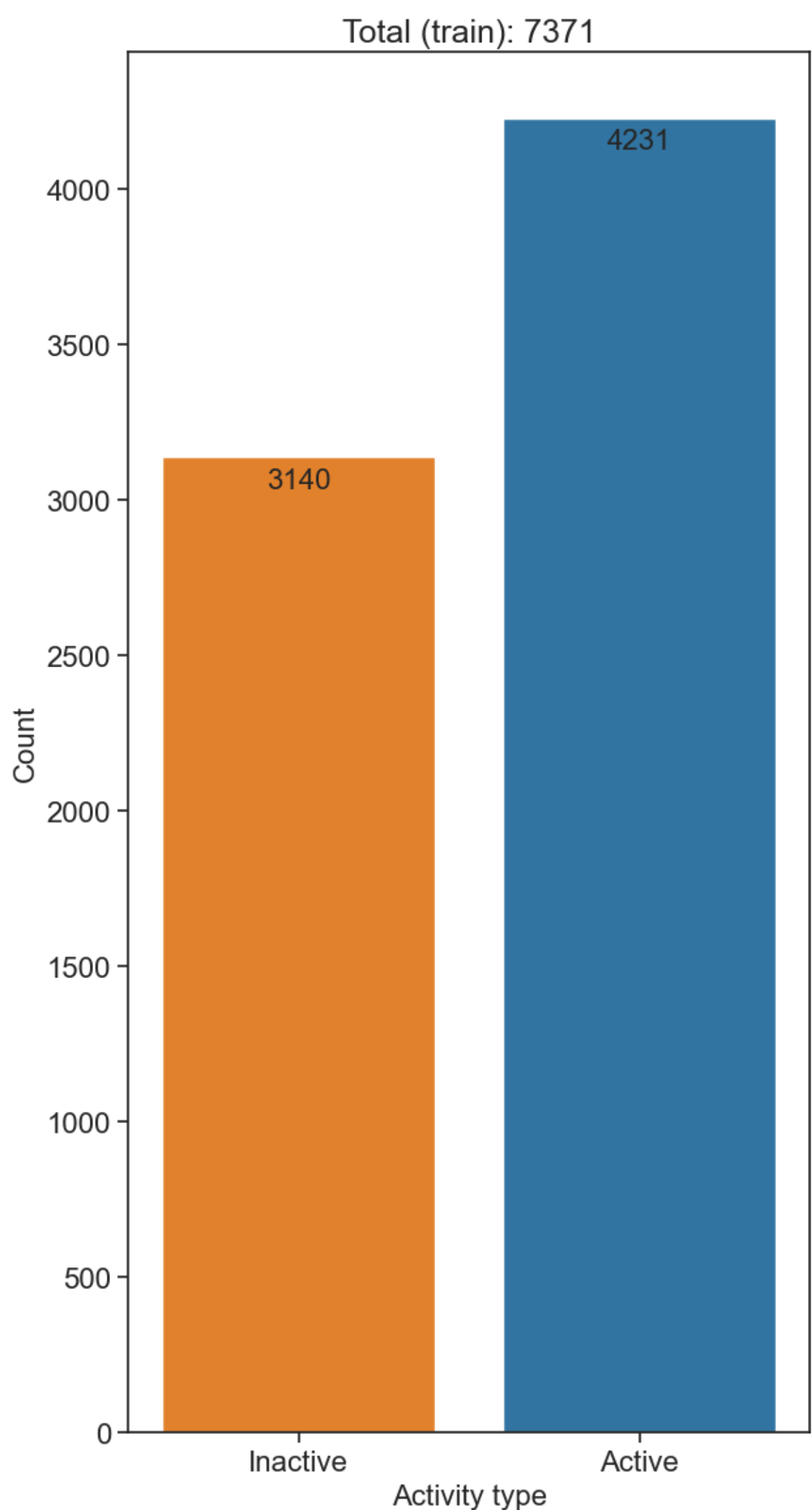


XGBoost Parameters	Value
alpha	4.8109
colsample_bytree	0.5117
gamma	0.1552
lambda	2.4148
learning_rate	0.0745
max_depth	10.0
min_child_weight	1.0
n_estimators	855.0
reg_alpha	0.0207
reg_lambda	0.7793
scale_pos_weight	3.7851
subsample	0.7871

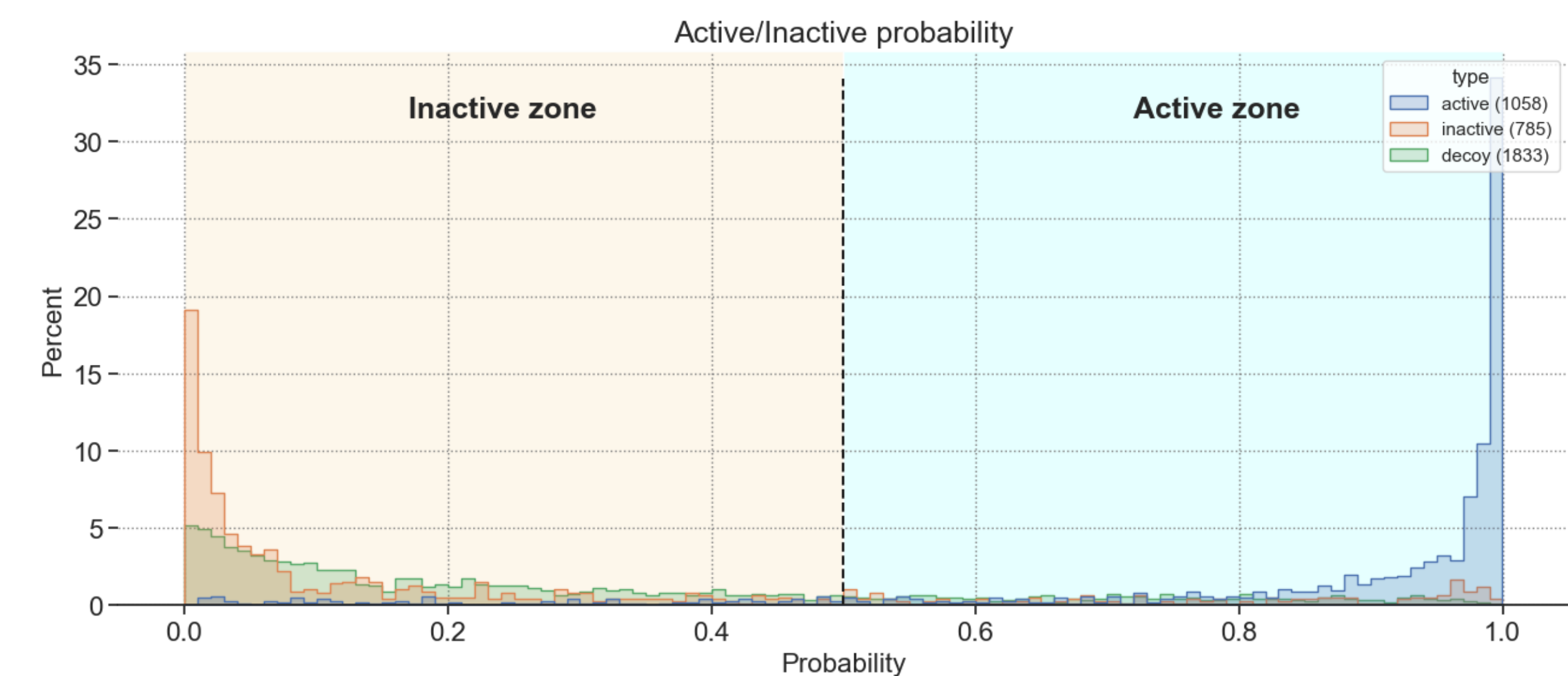
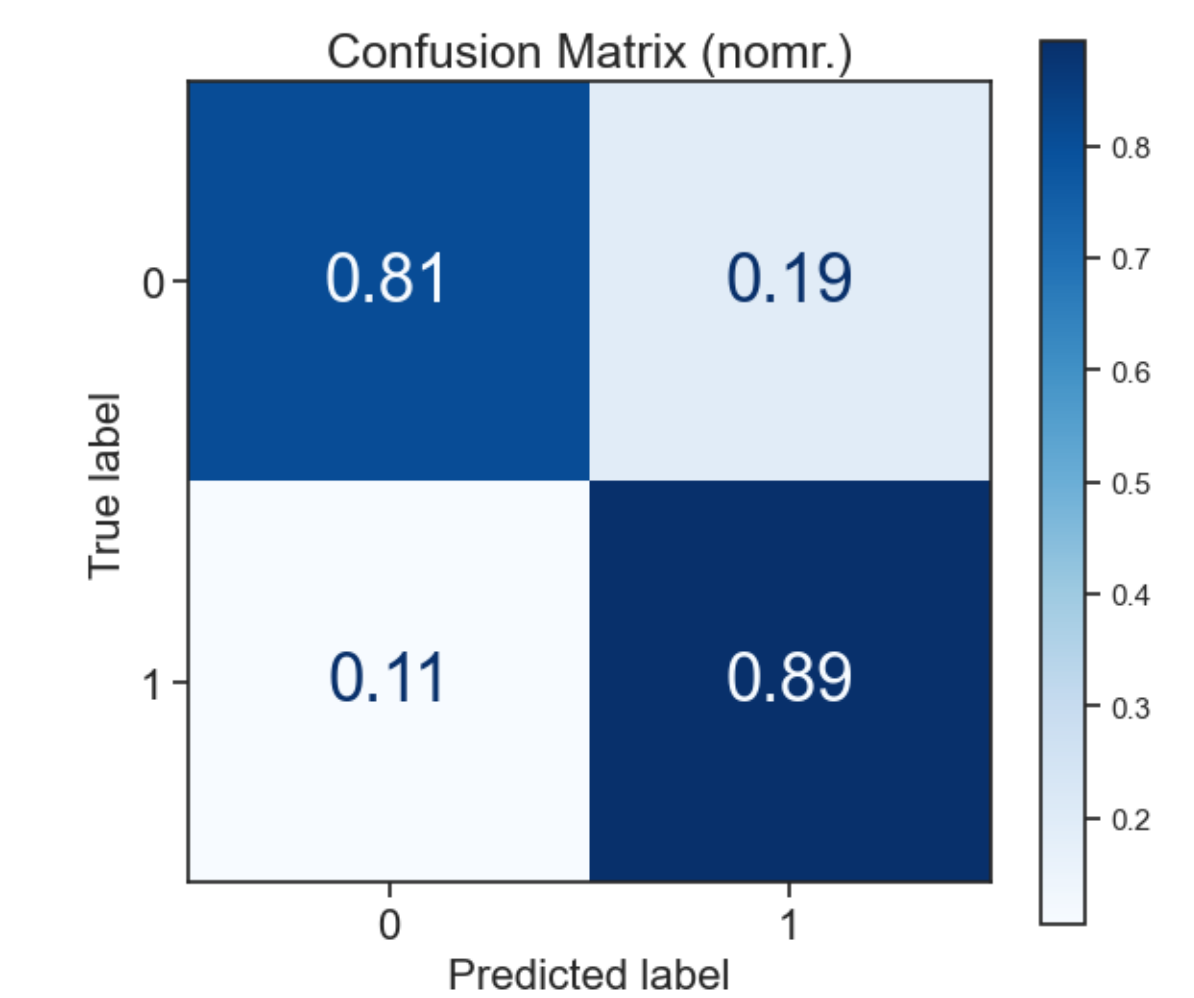
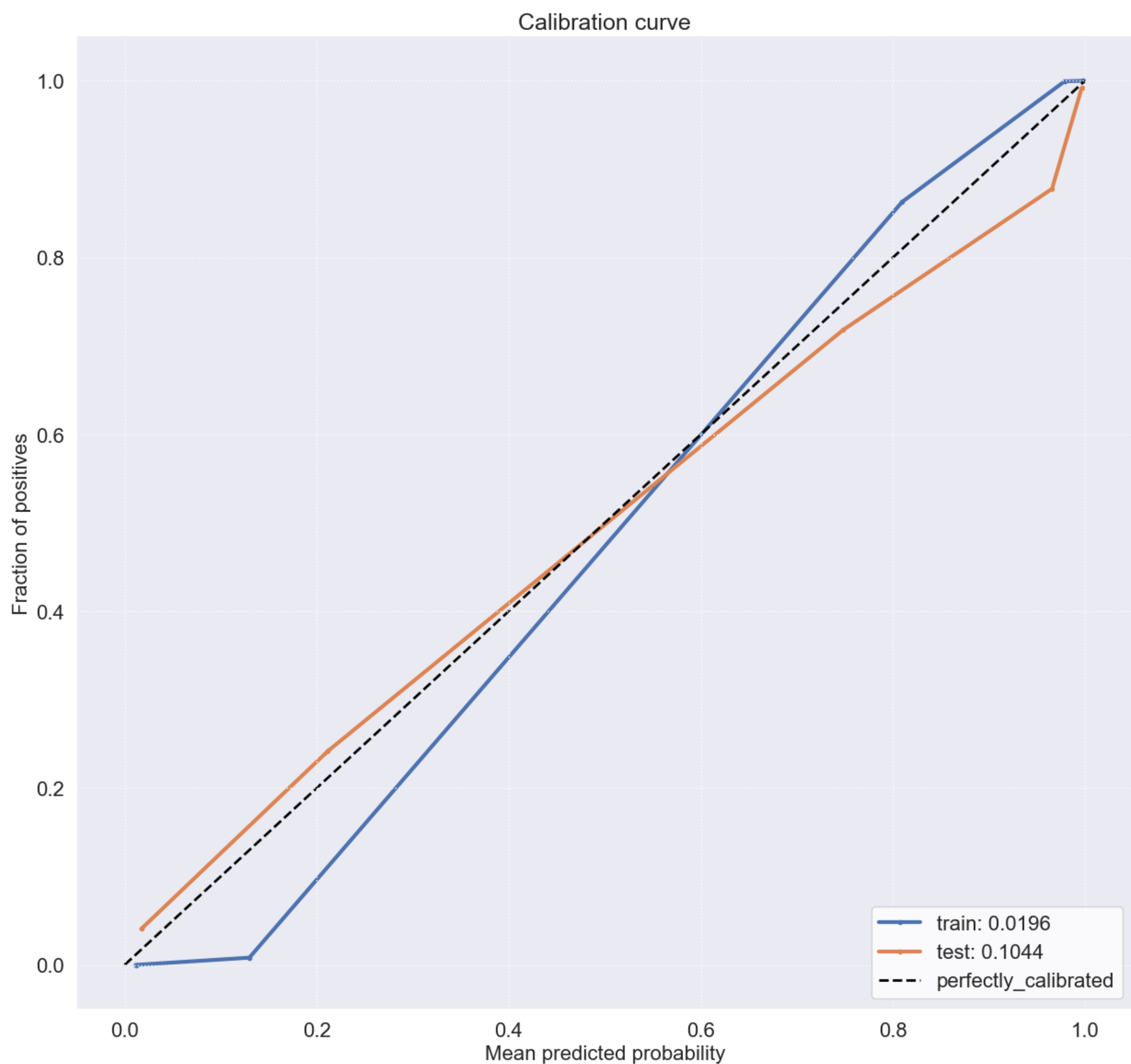
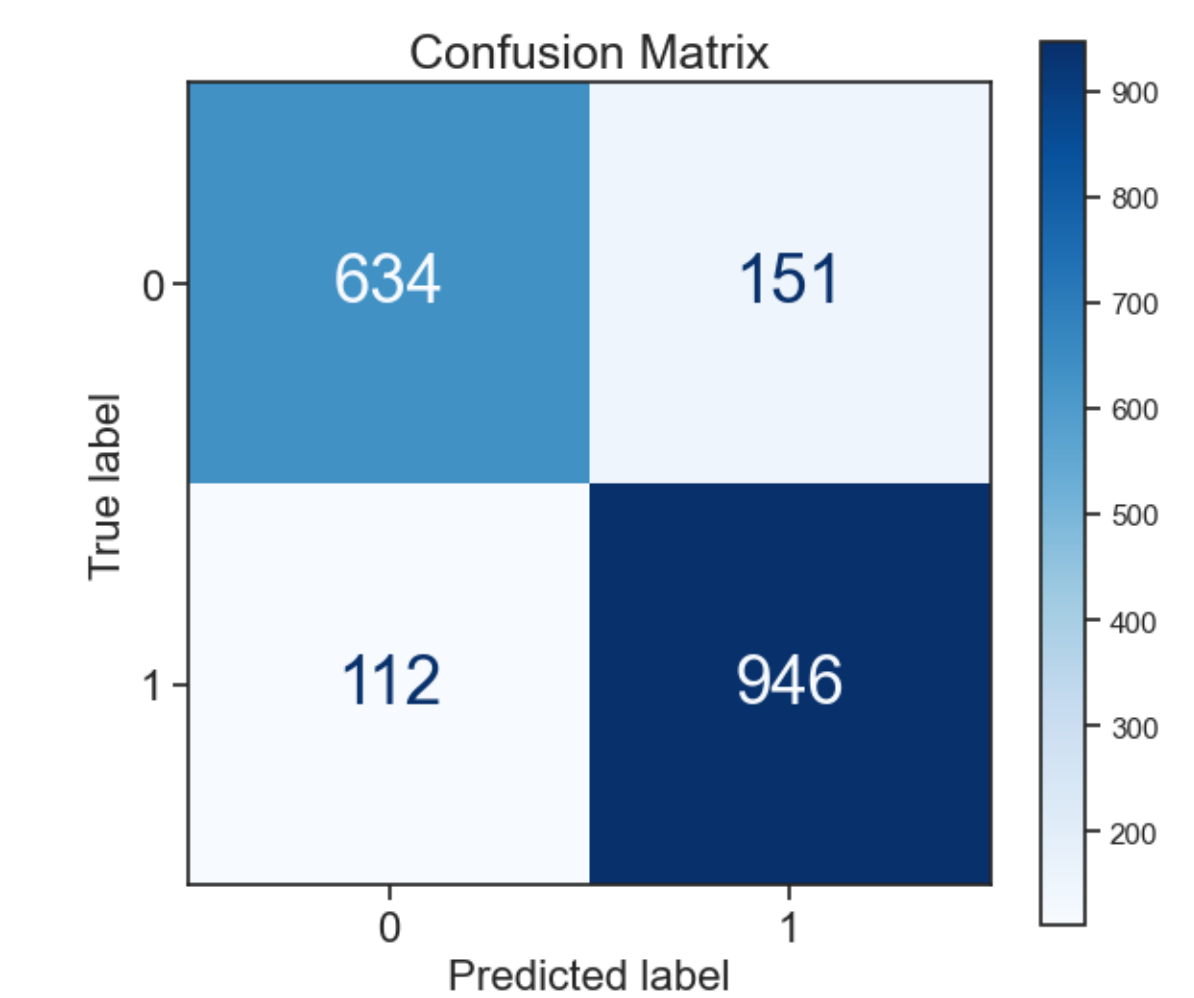


Metric	Train	Test
AUC	0.999	0.9306
accuracy	0.9734	0.8589
balanced accuracy	0.9688	0.8462
recall_(sens)	0.9998	0.9319
specificity	0.9379	0.7605
precision	0.9559	0.8399
f1_score	0.9733	0.857

Protein: P34972 - metric: precision

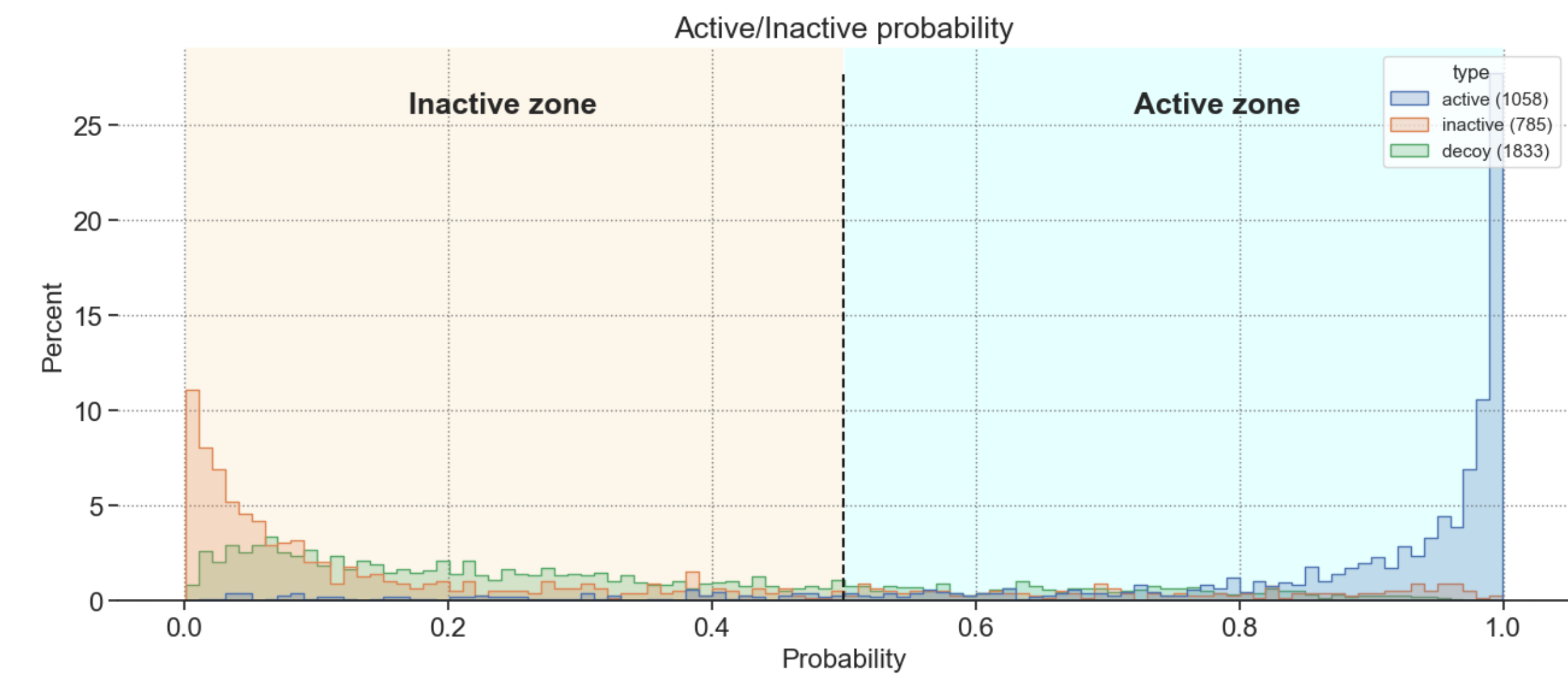
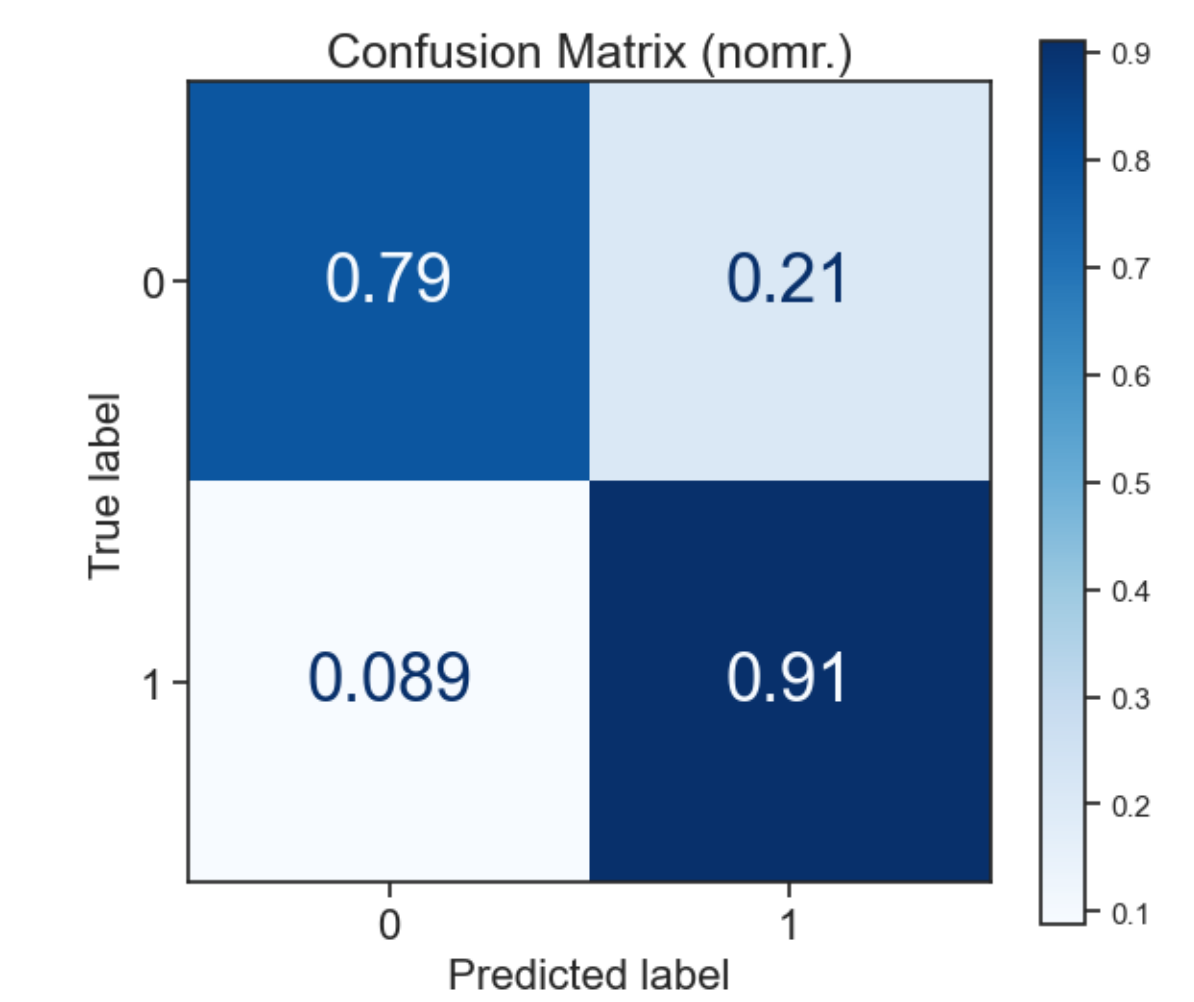
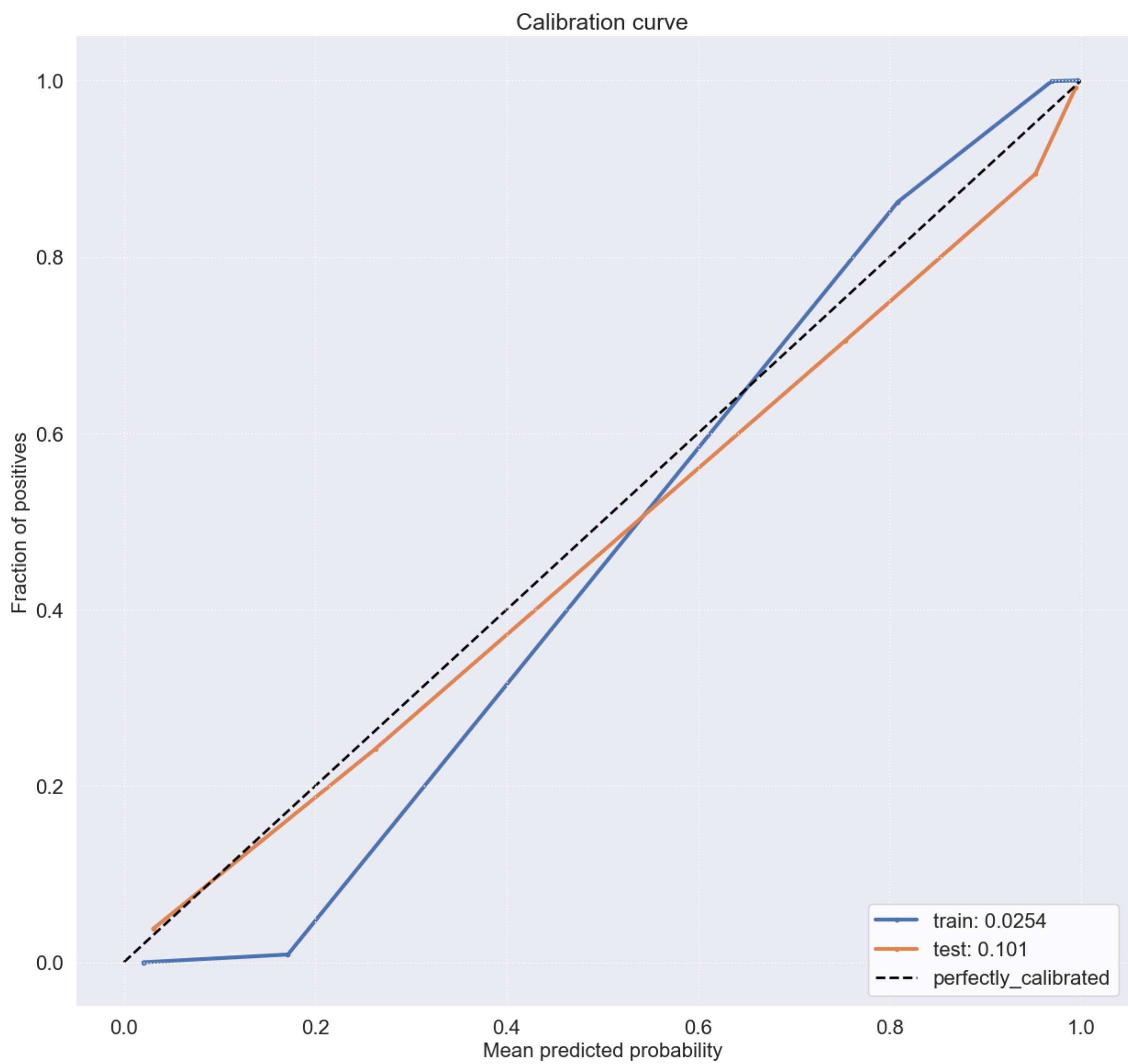
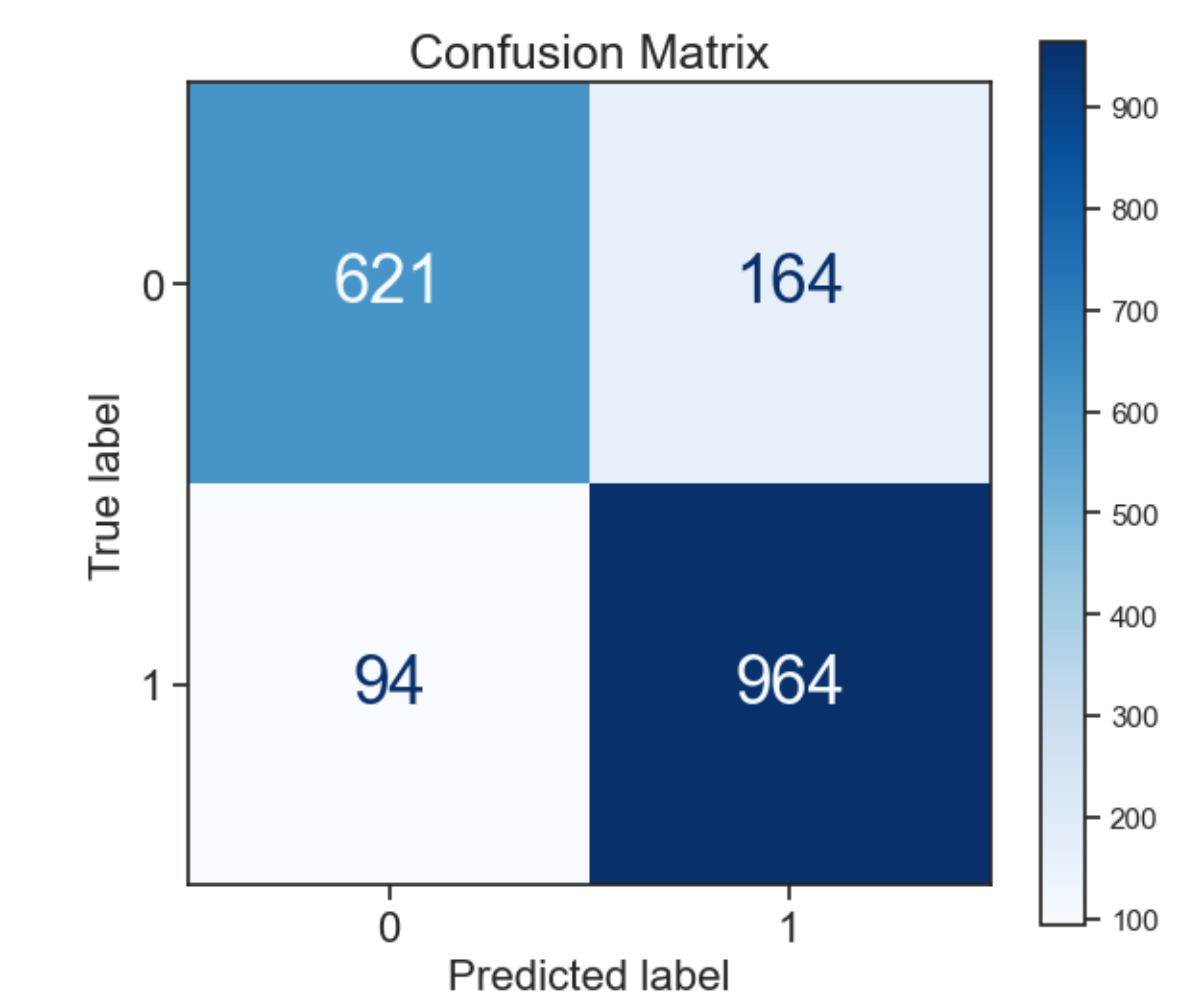
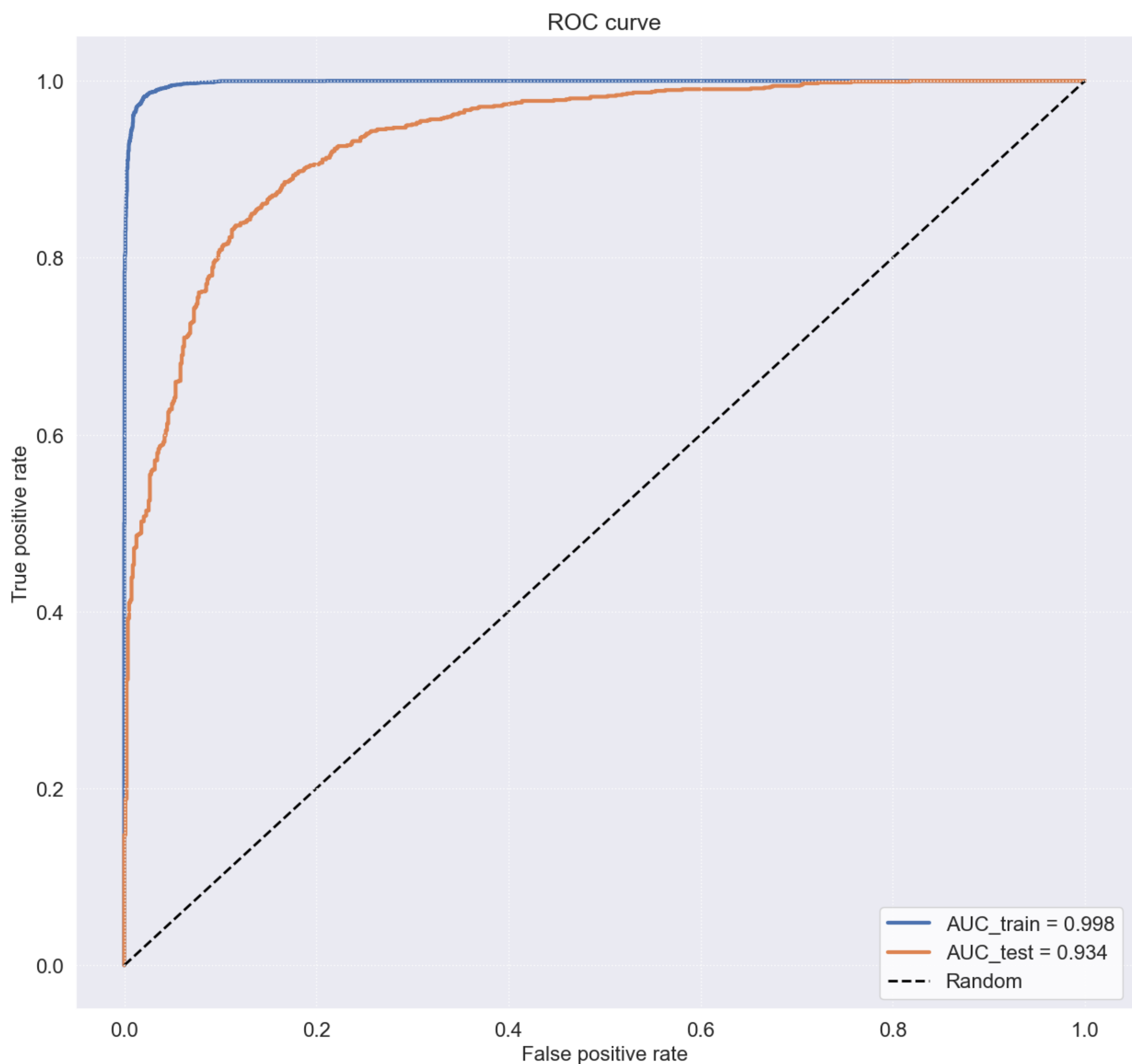
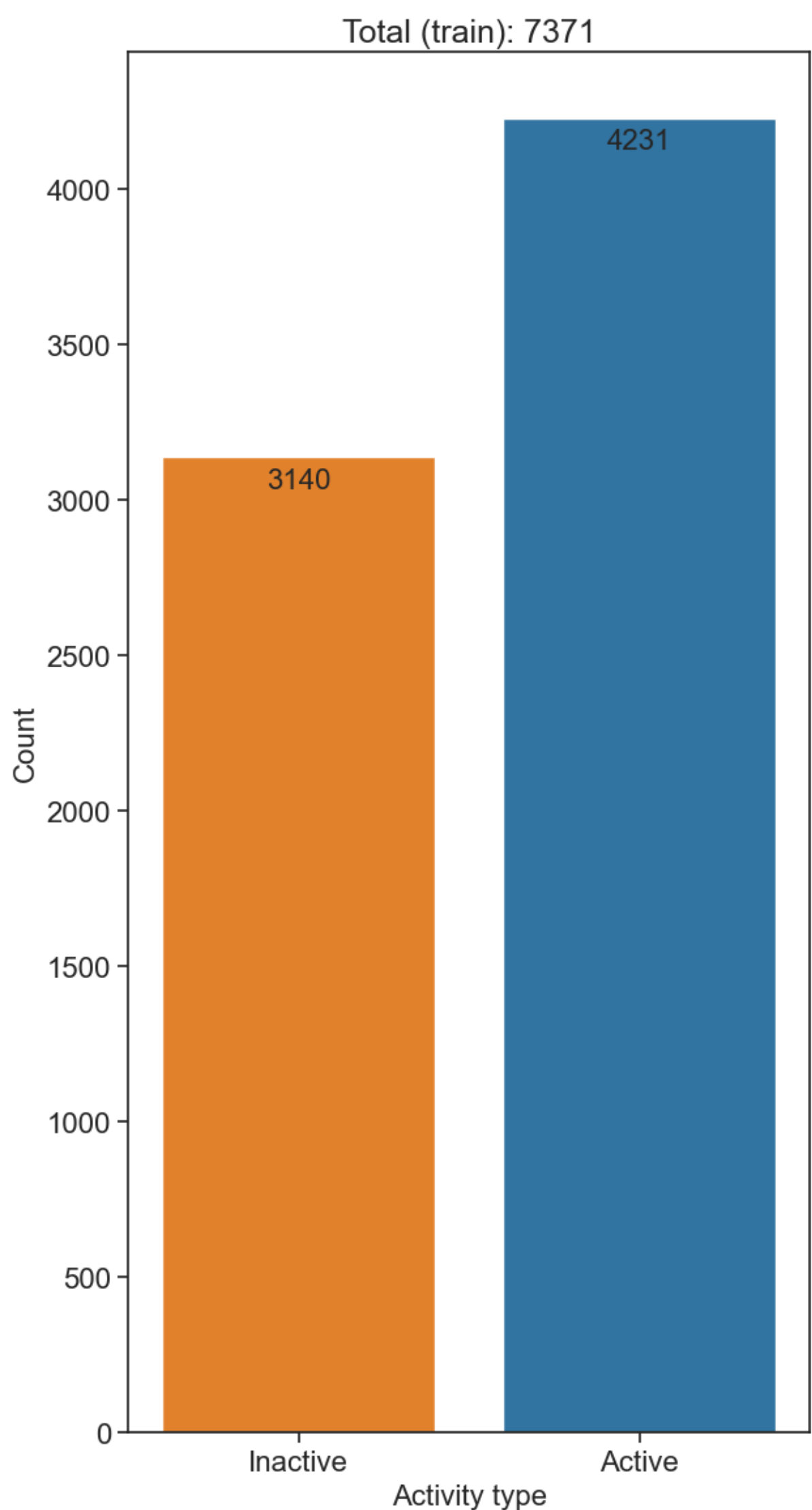


XGBoost Parameters	Value
alpha	0.2912
colsample_bytree	0.7782
gamma	0.0068
lambda	2.8252
learning_rate	0.1463
max_depth	10.0
min_child_weight	1.0
n_estimators	358.0
reg_alpha	0.9308
reg_lambda	0.1068
scale_pos_weight	1.3928
subsample	0.6656



Metric	Train	Test
AUC	0.9988	0.9292
accuracy	0.9824	0.8573
balanced accuracy	0.9806	0.8509
recall_(sens)	0.9927	0.8941
specificity	0.9685	0.8076
precision	0.977	0.8624
f1_score	0.9823	0.8568

Protein: P34972 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9982	0.9339
accuracy	0.9749	0.86
balanced accuracy	0.9714	0.8511
recall_(sens)	0.995	0.9112
specificity	0.9478	0.7911
precision	0.9625	0.8546
f1_score	0.9748	0.859