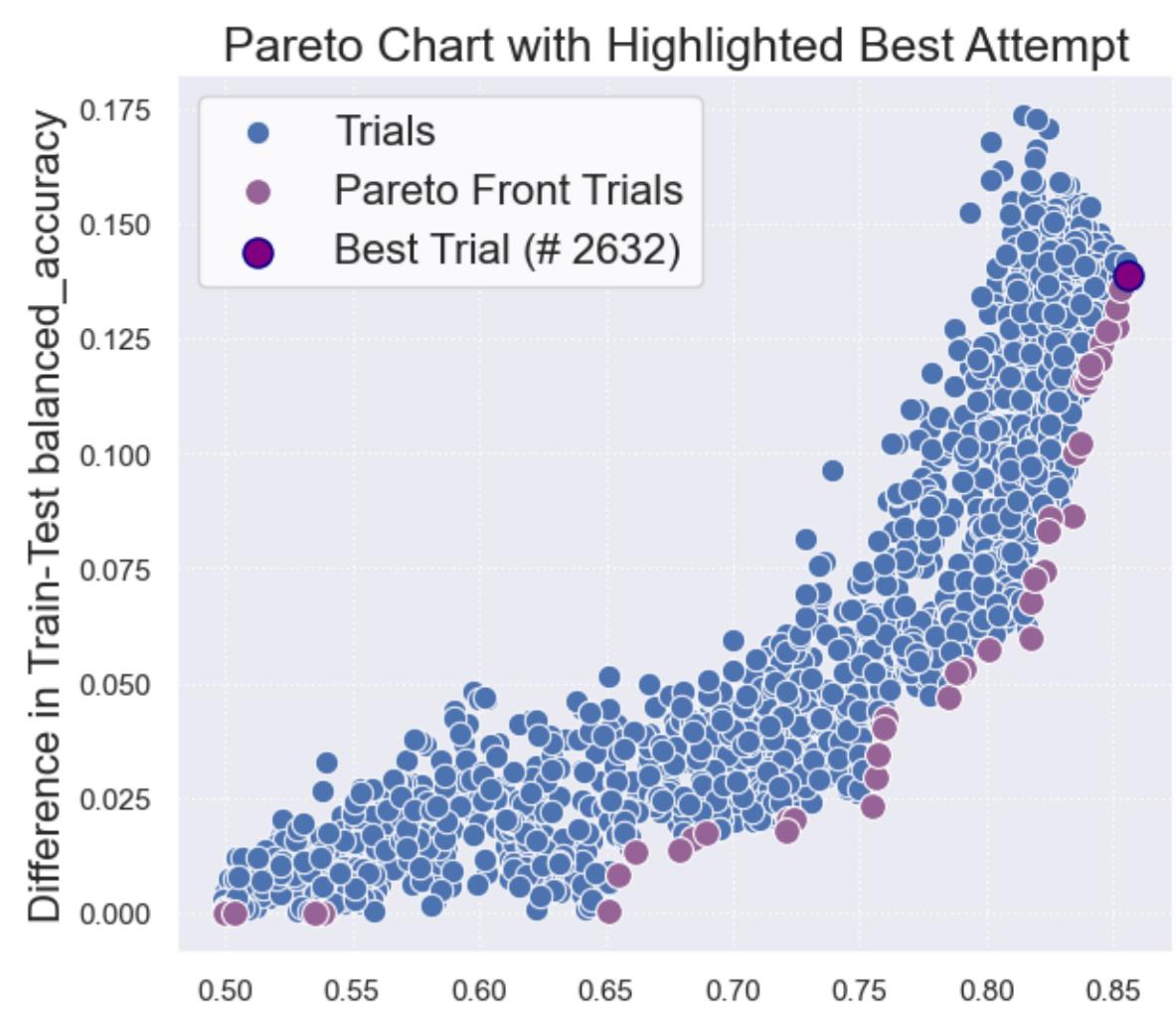
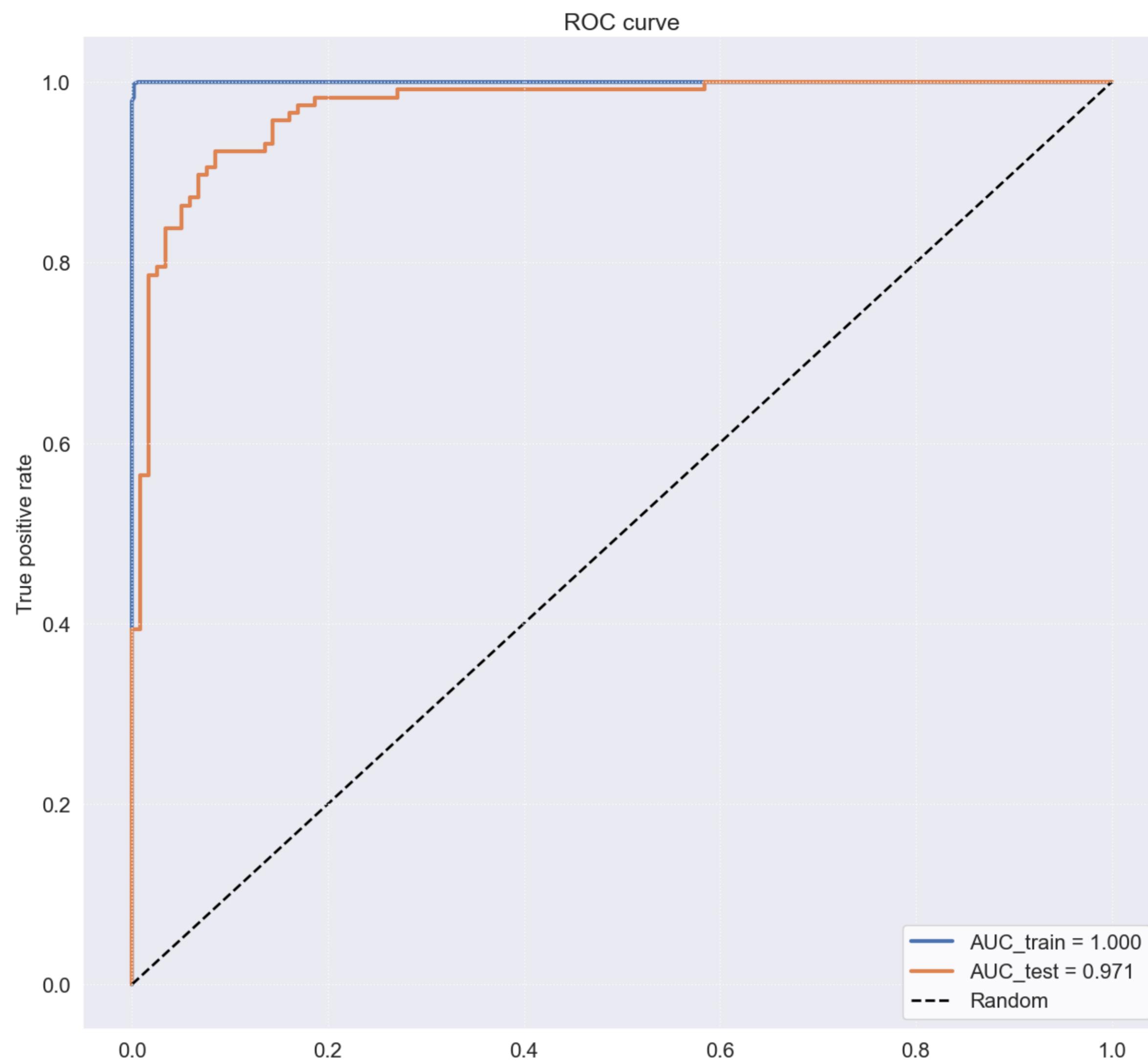
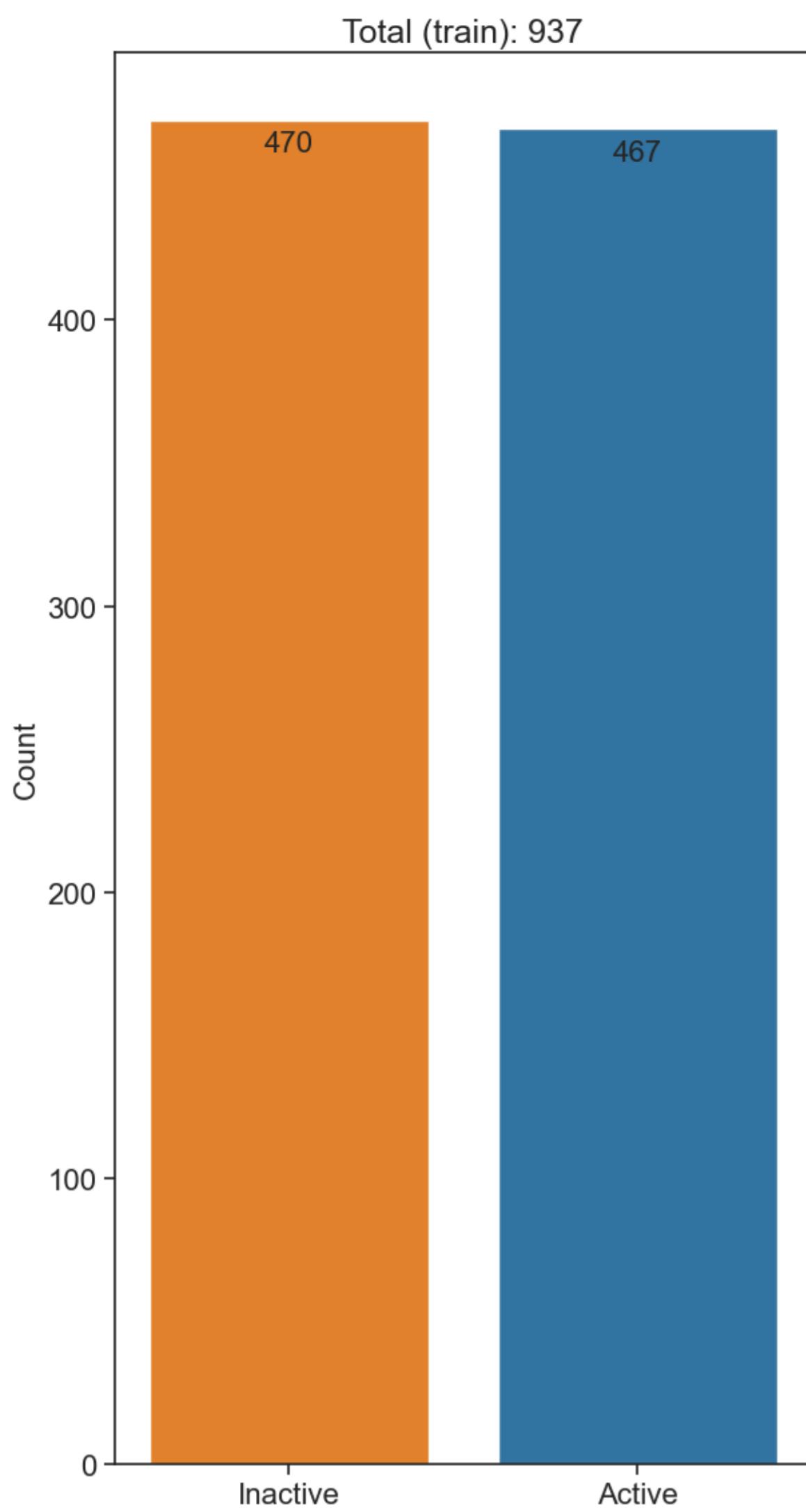
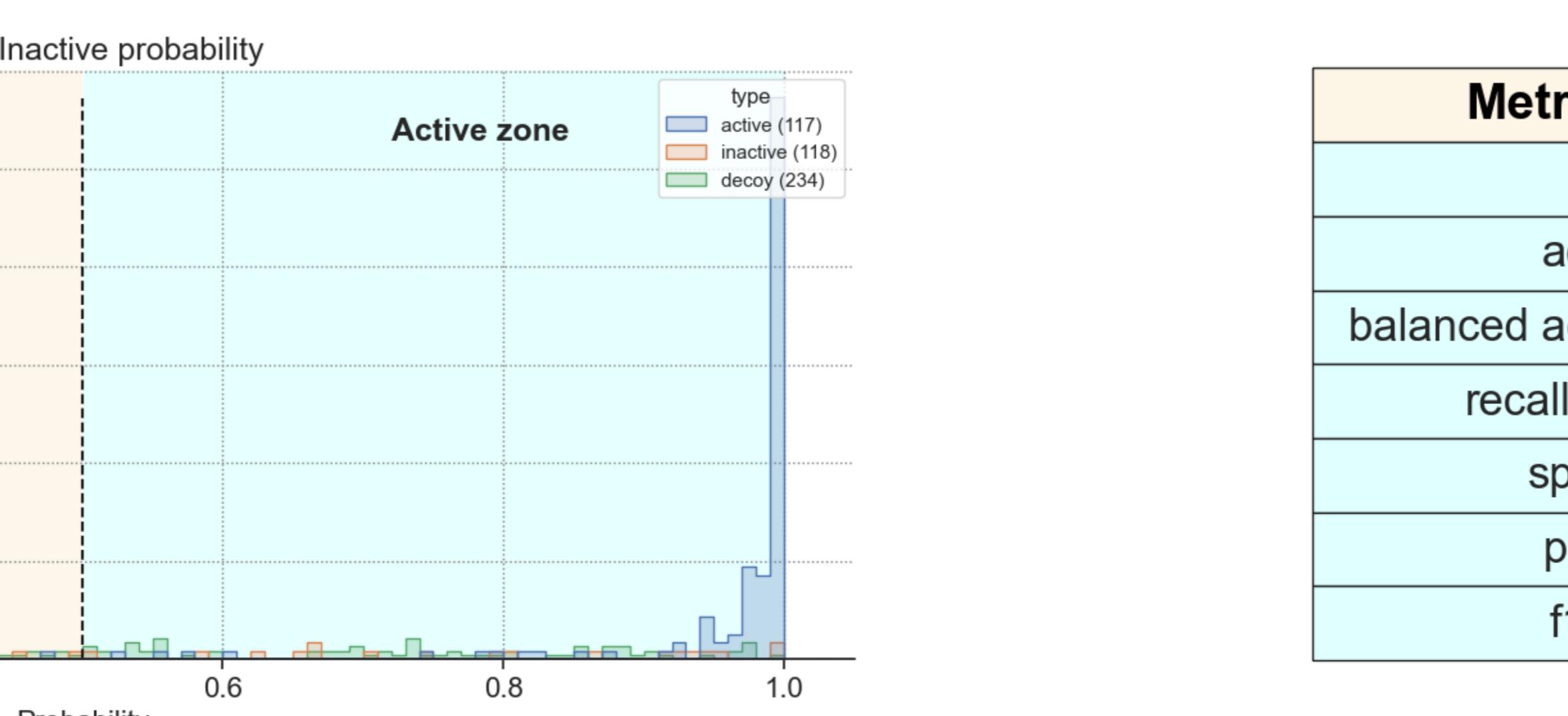
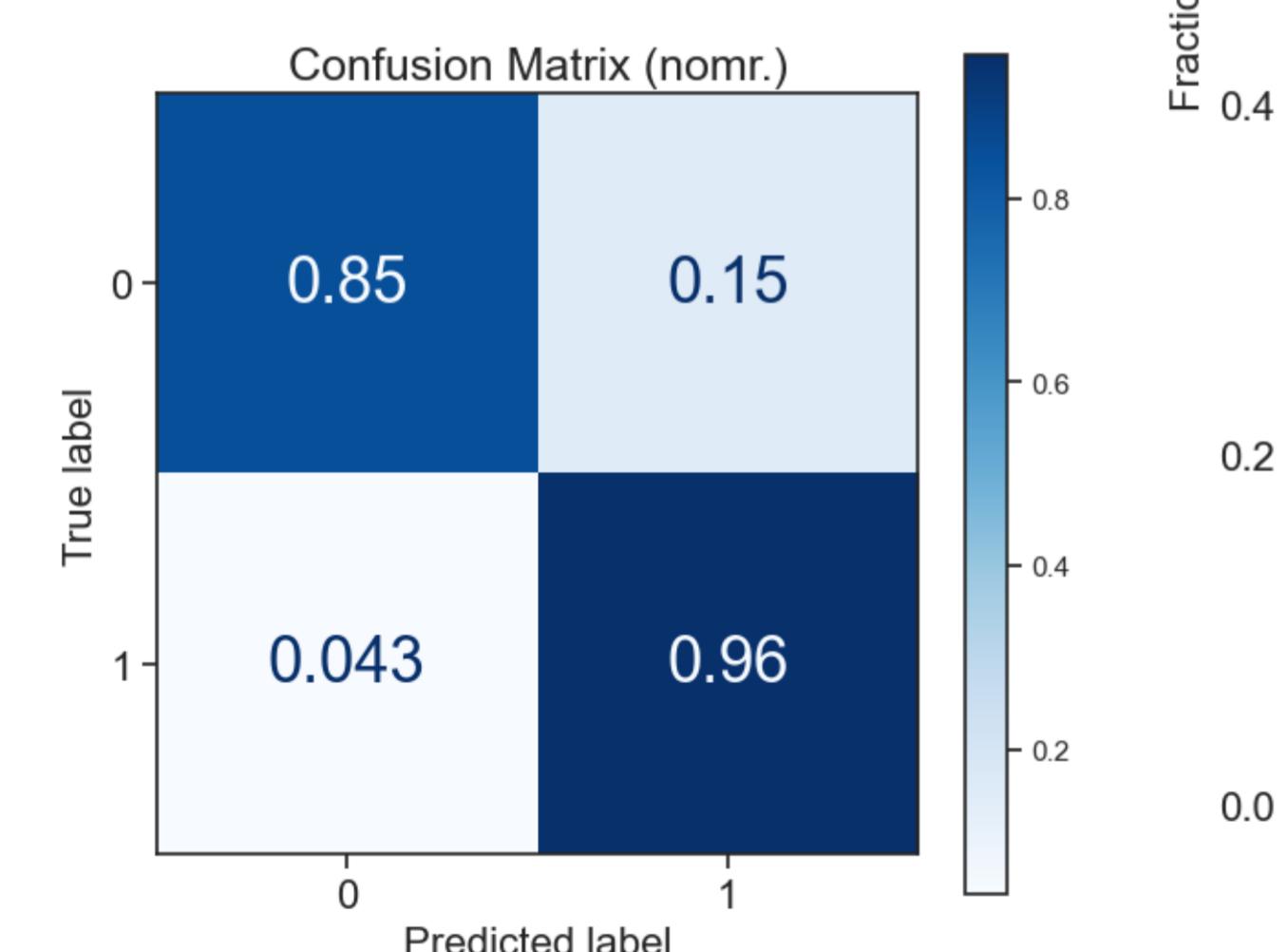
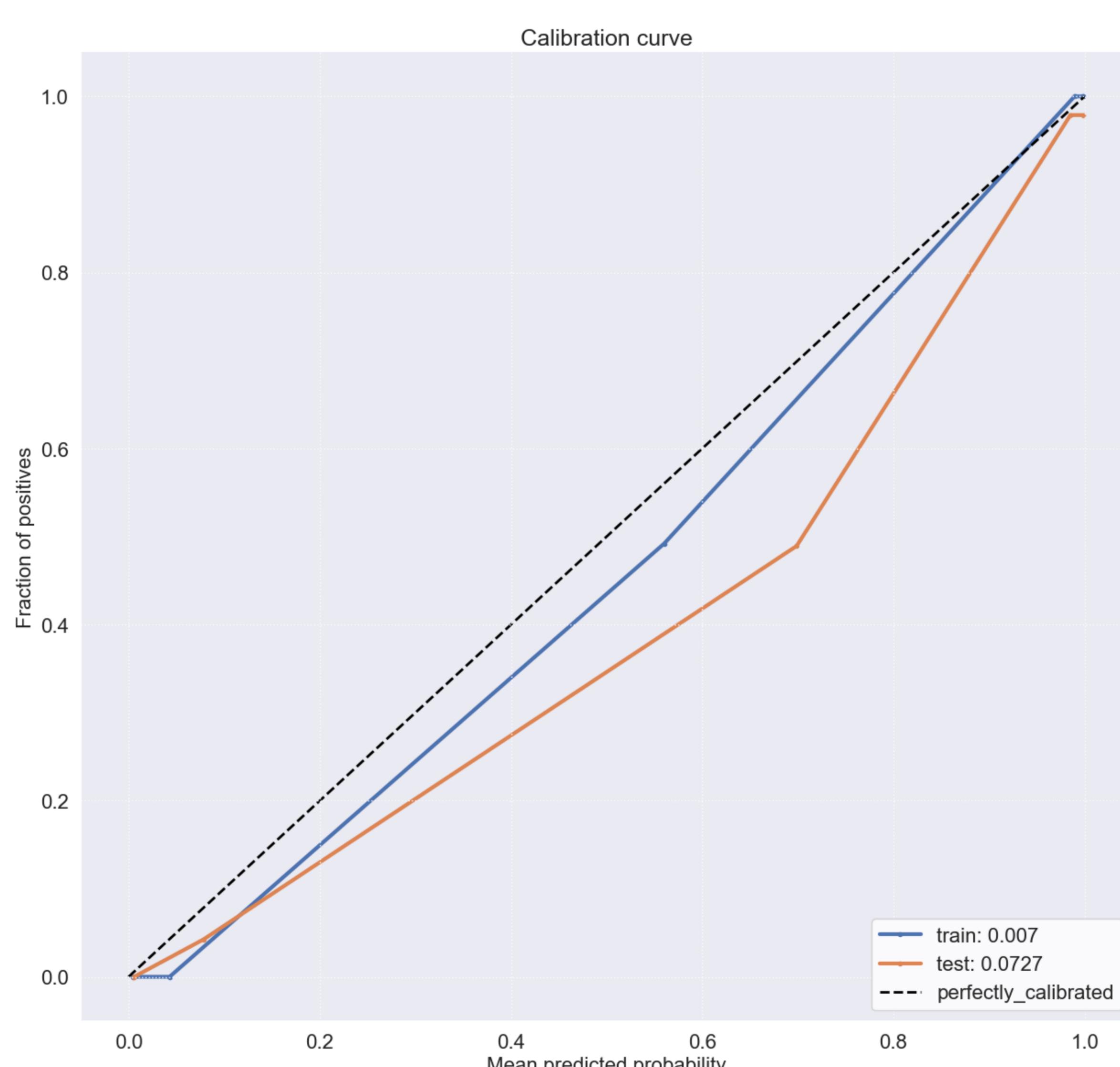
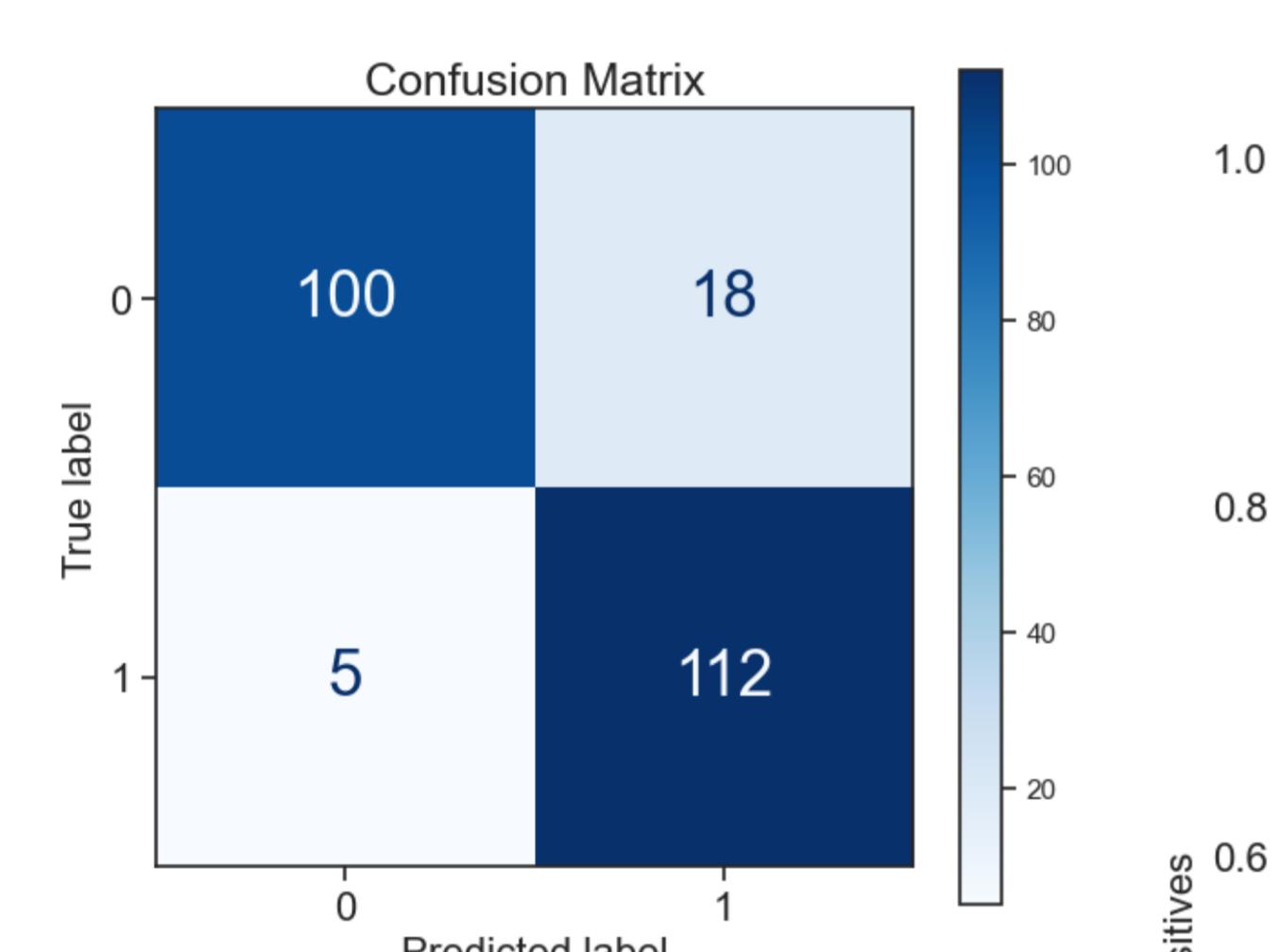


Protein: Q92769 - metric: balanced_accuracy

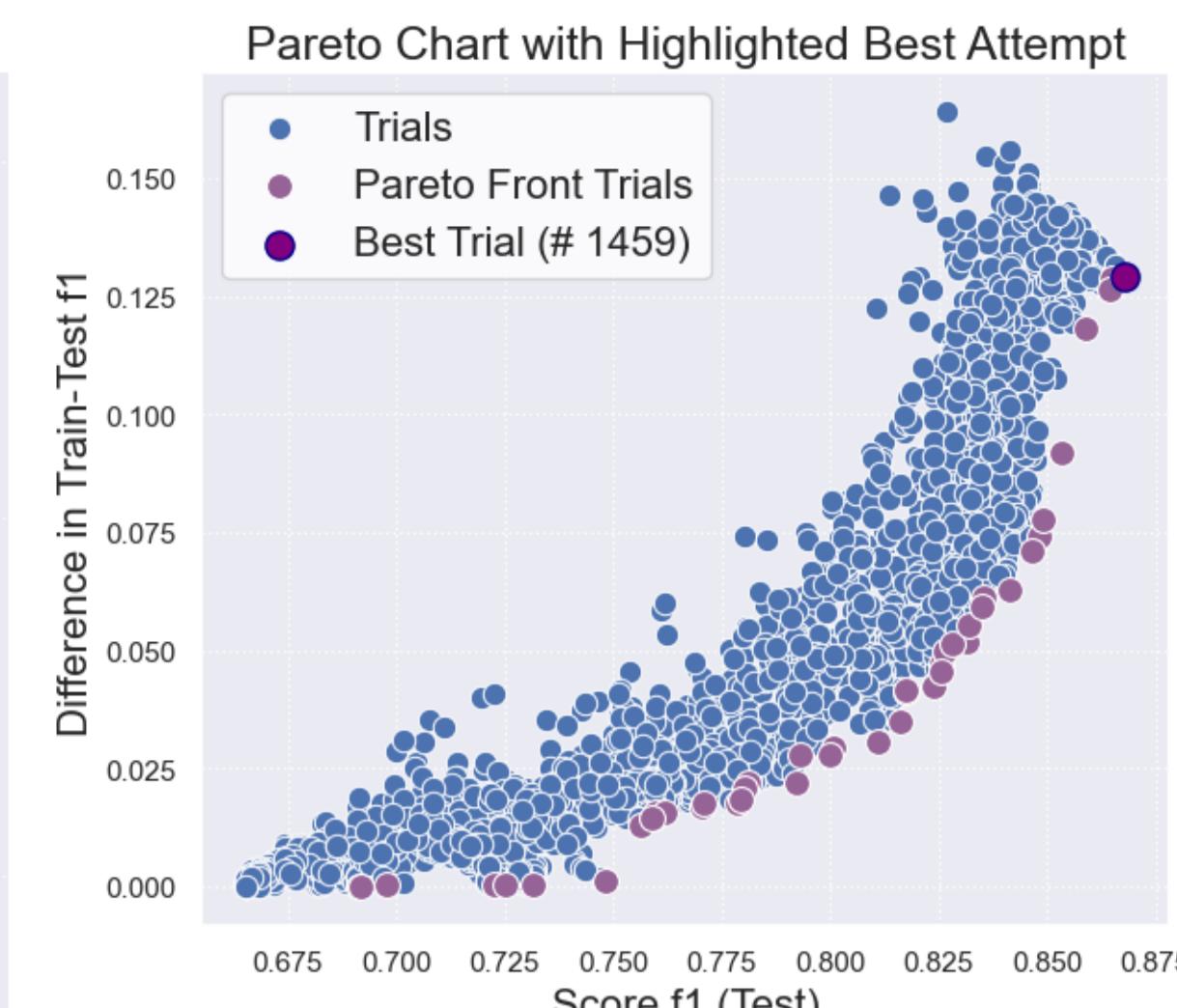
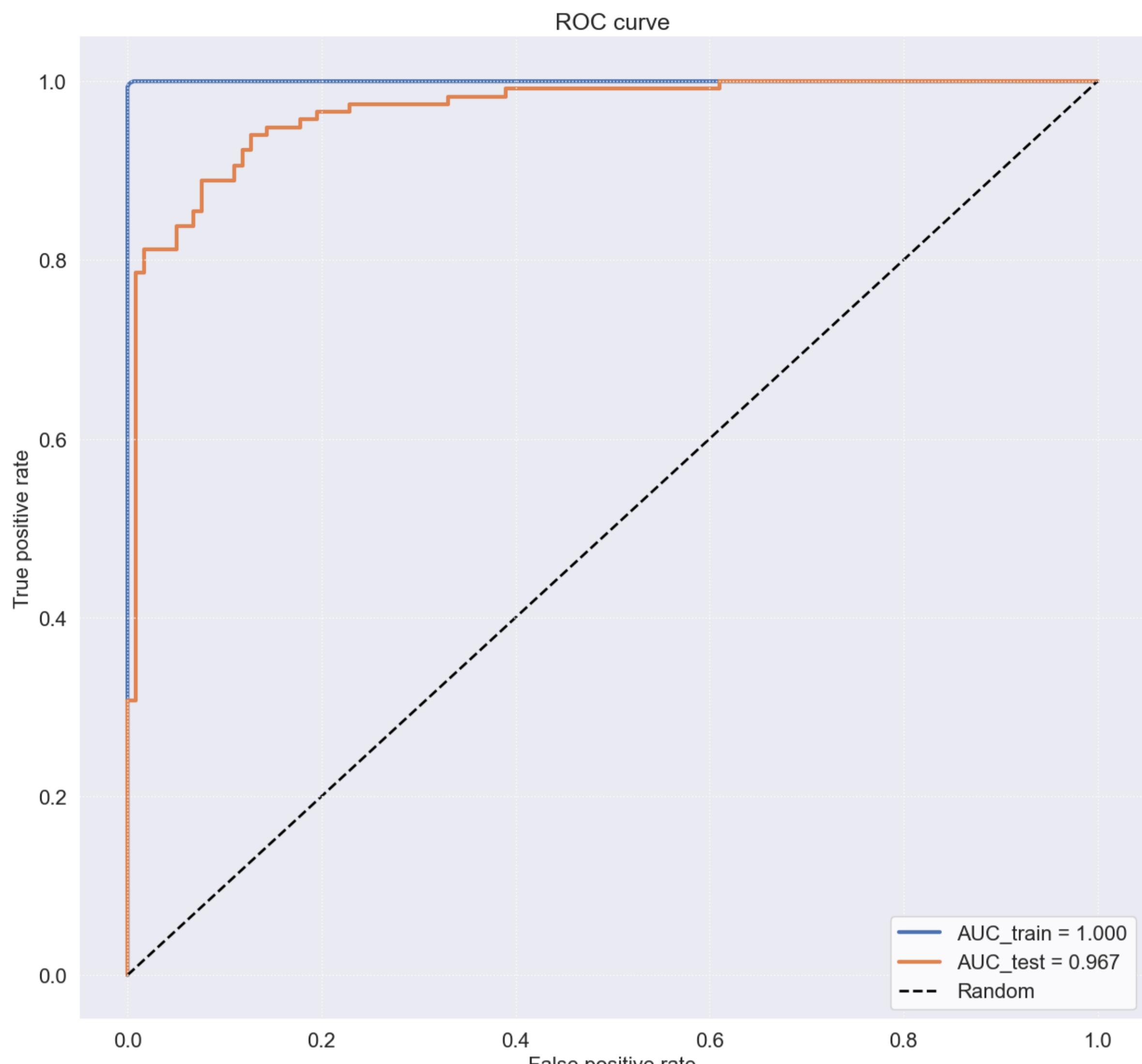
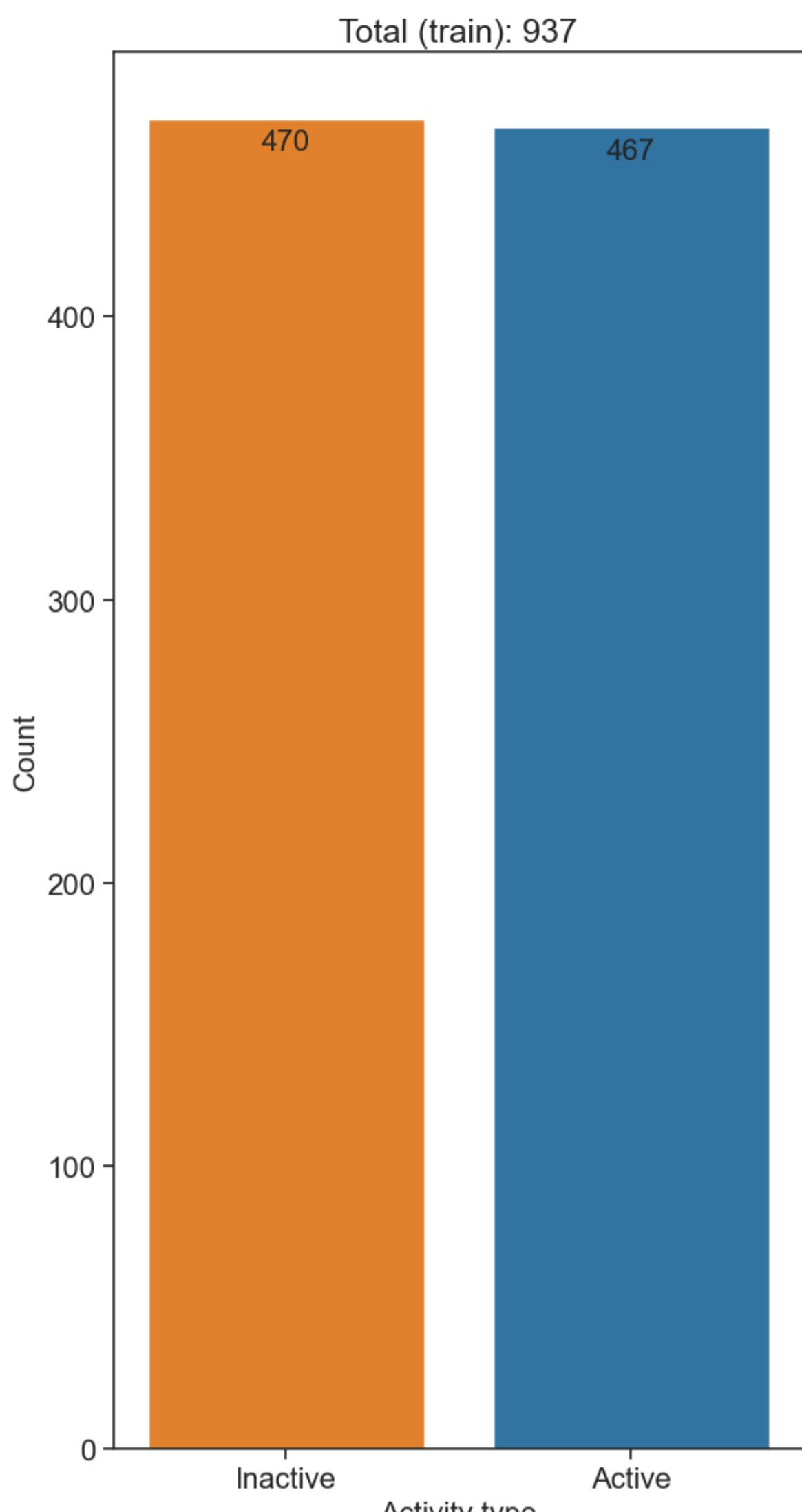


XGBoost Parameters	Value
alpha	4.482
colsample_bytree	0.9916
gamma	0.1757
lambda	4.469
learning_rate	0.1561
max_depth	10.0
min_child_weight	3.0
n_estimators	967.0
reg_alpha	0.0328
reg_lambda	0.0118
scale_pos_weight	3.2947
subsample	0.961

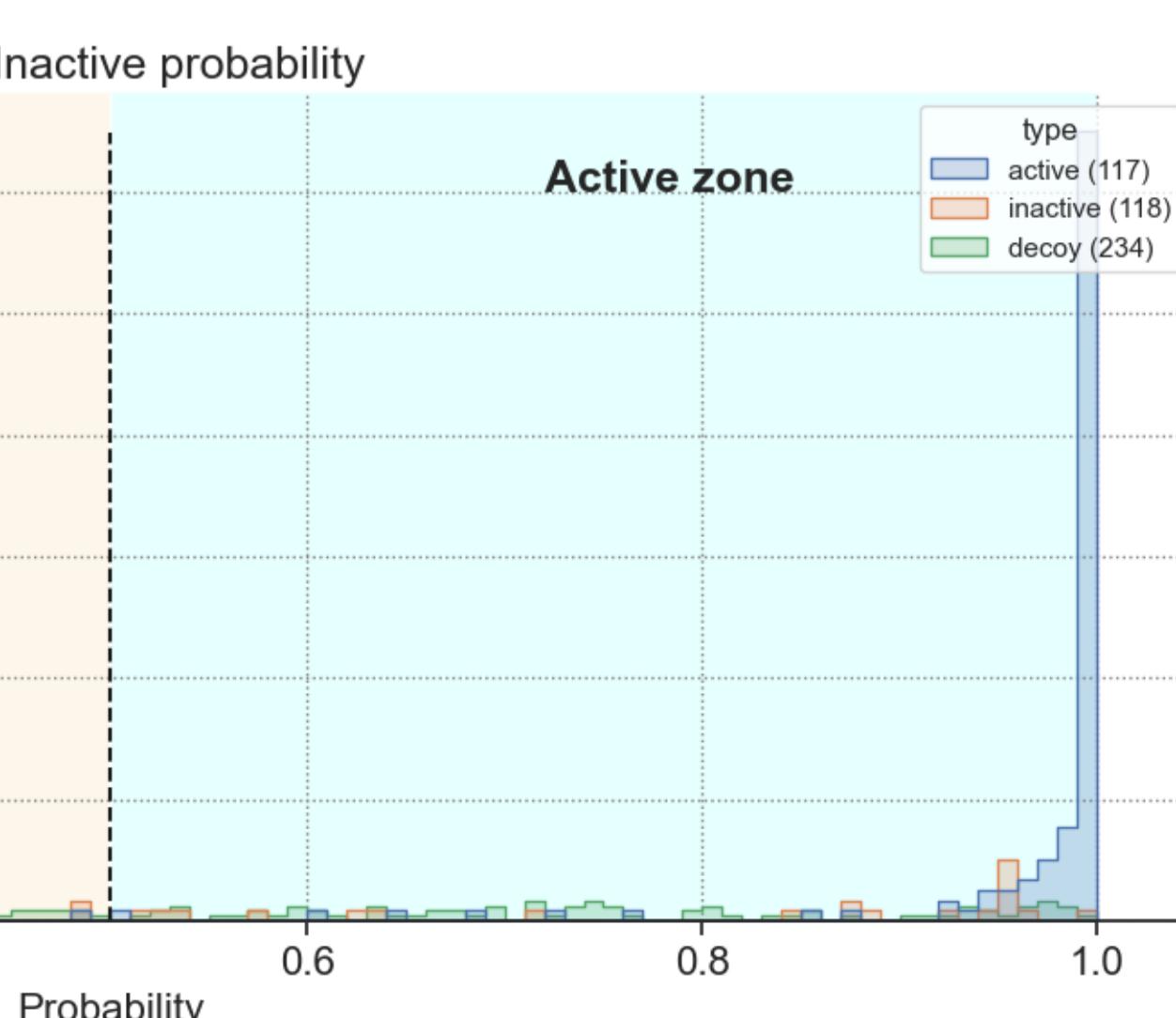
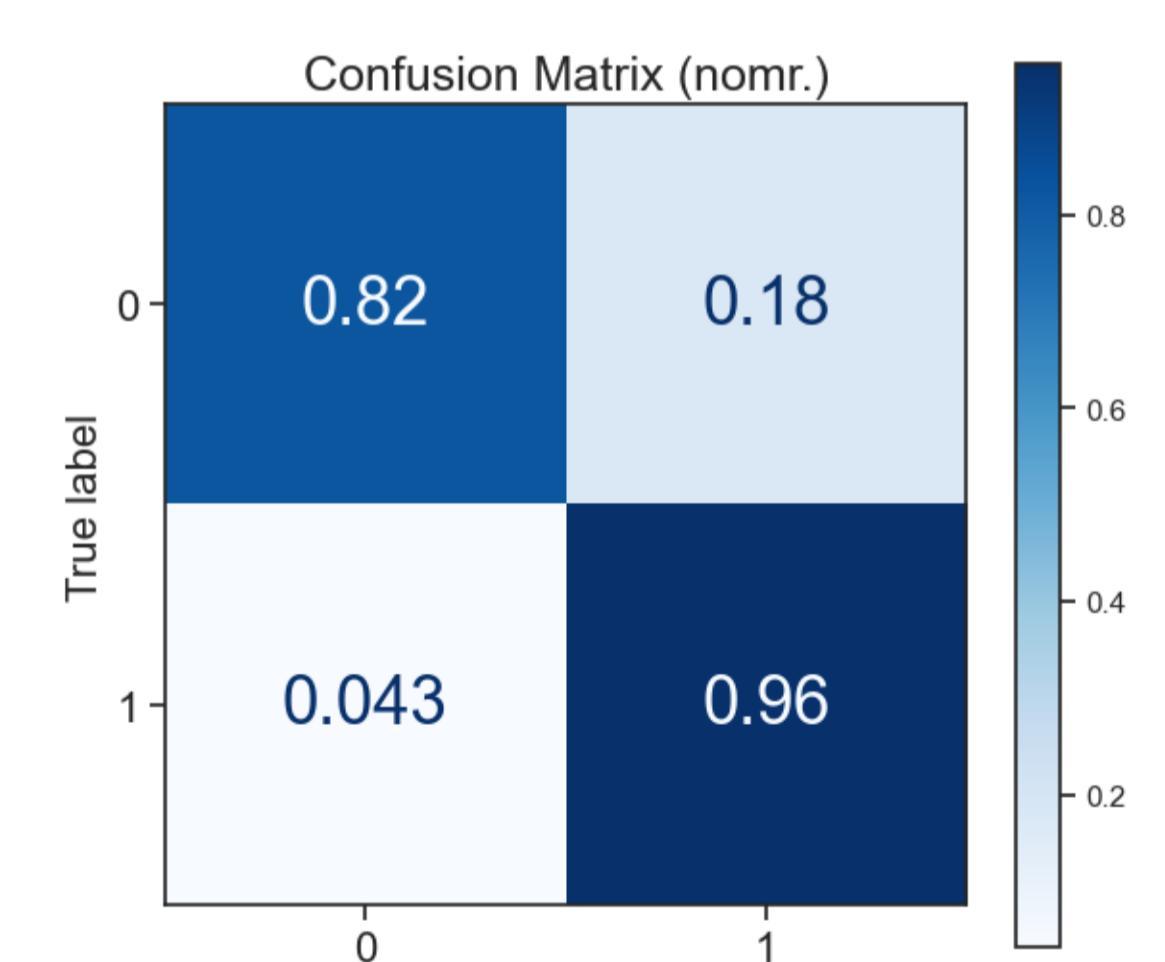
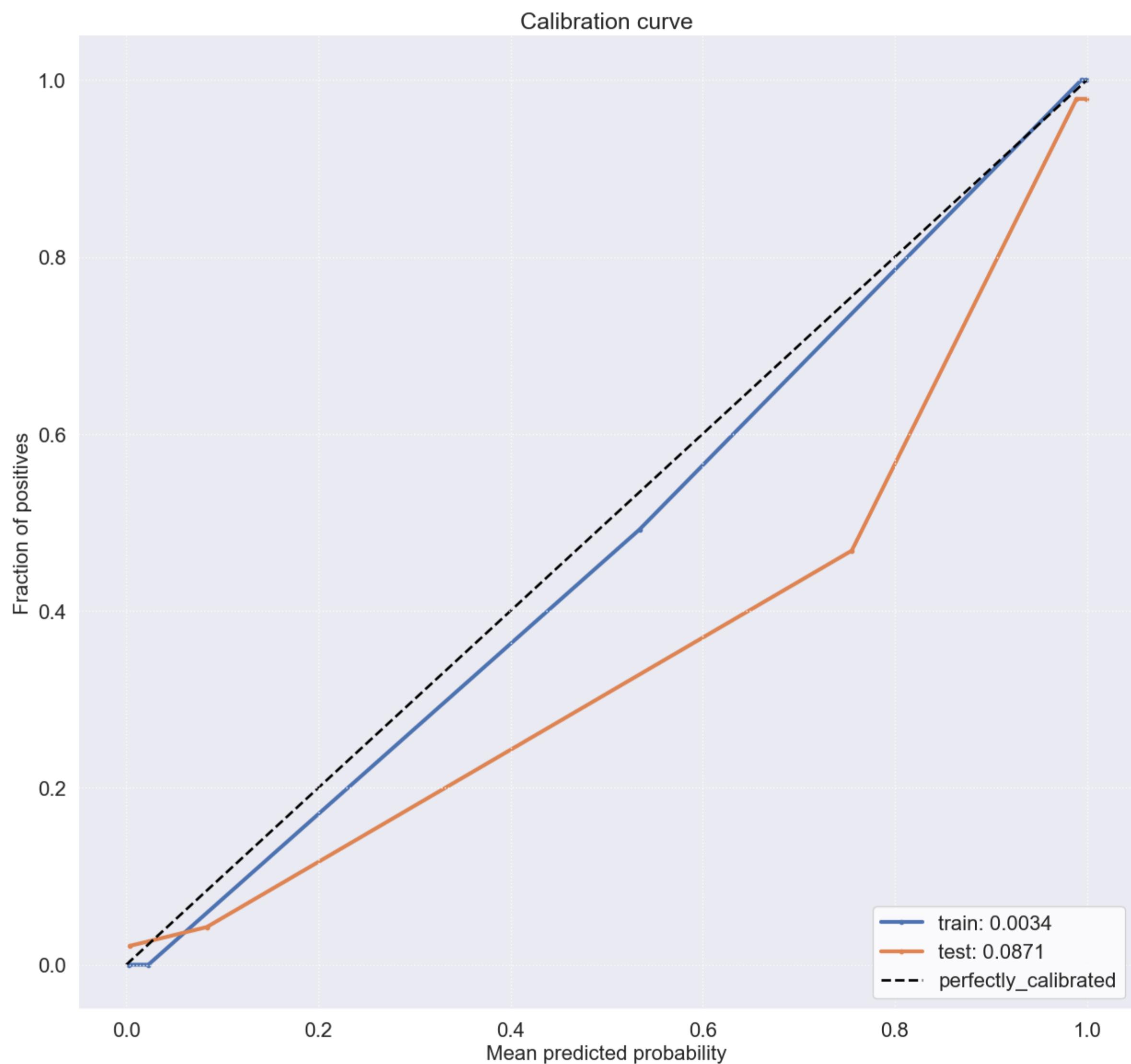
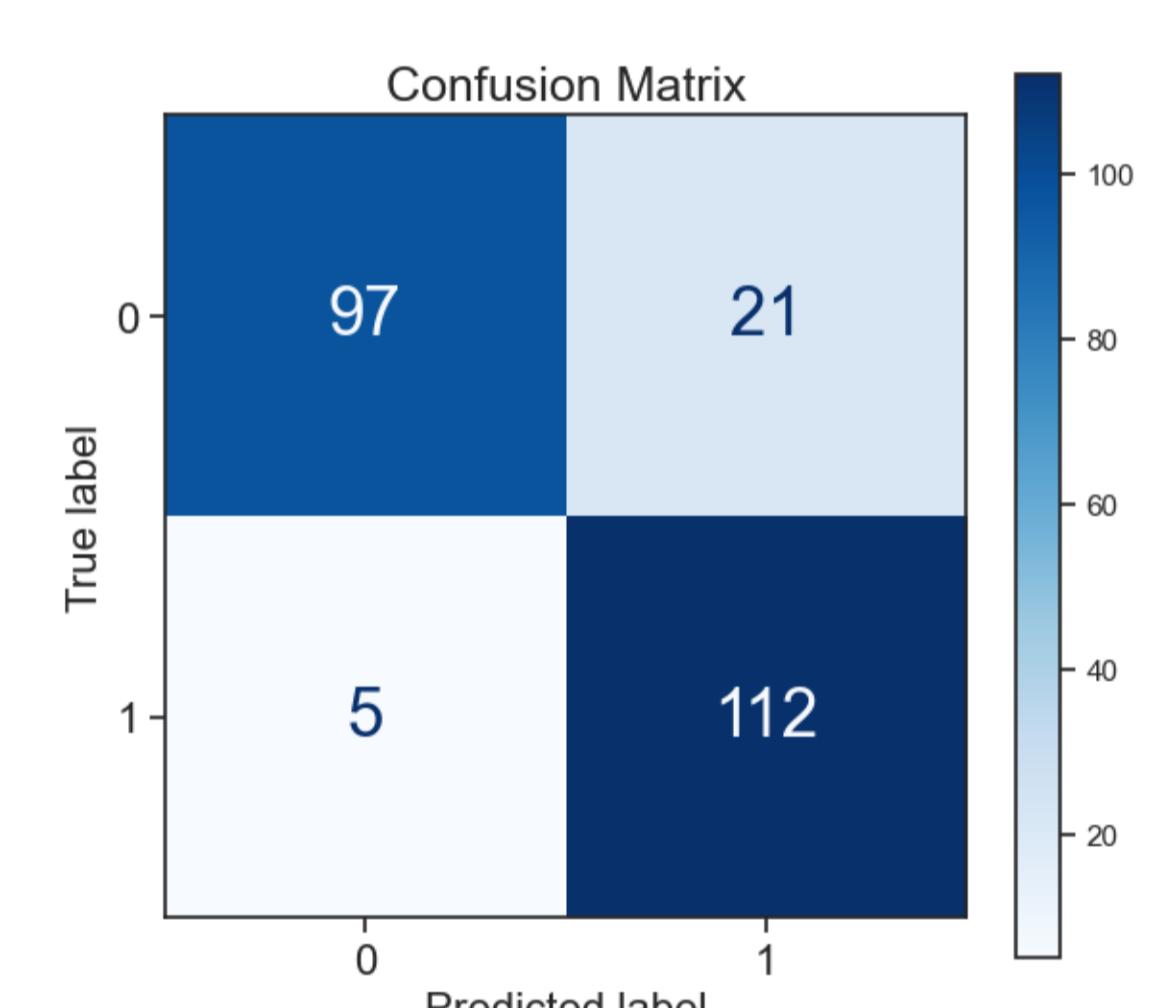


Metric	Train	Test
AUC	1.0	0.9709
accuracy	0.9947	0.9021
balanced accuracy	0.9947	0.9024
recall_(sens)	1.0	0.9573
specificity	0.9894	0.8475
precision	0.9894	0.8615
f1_score	0.9947	0.9019

Protein: Q92769 - metric: f1

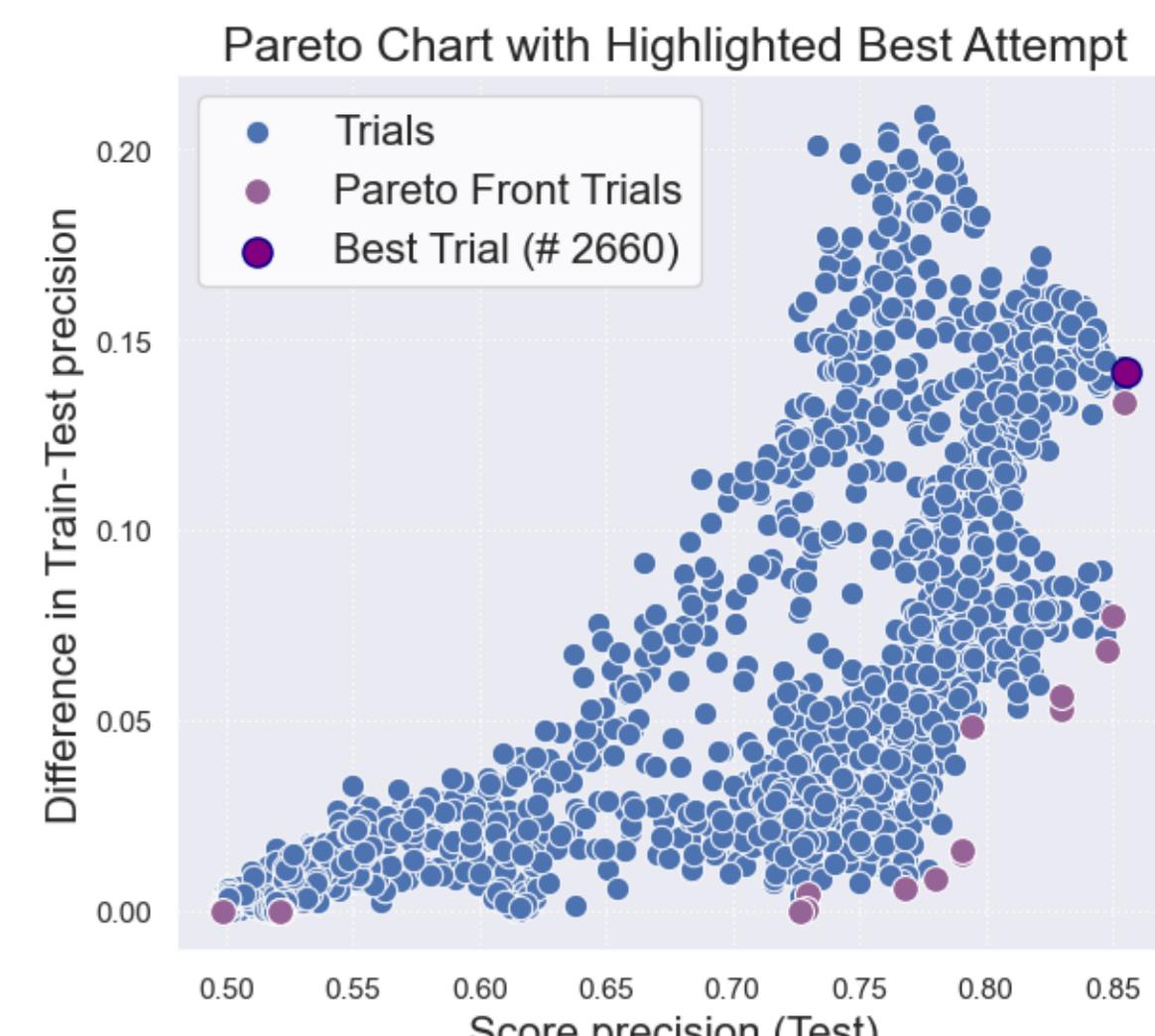
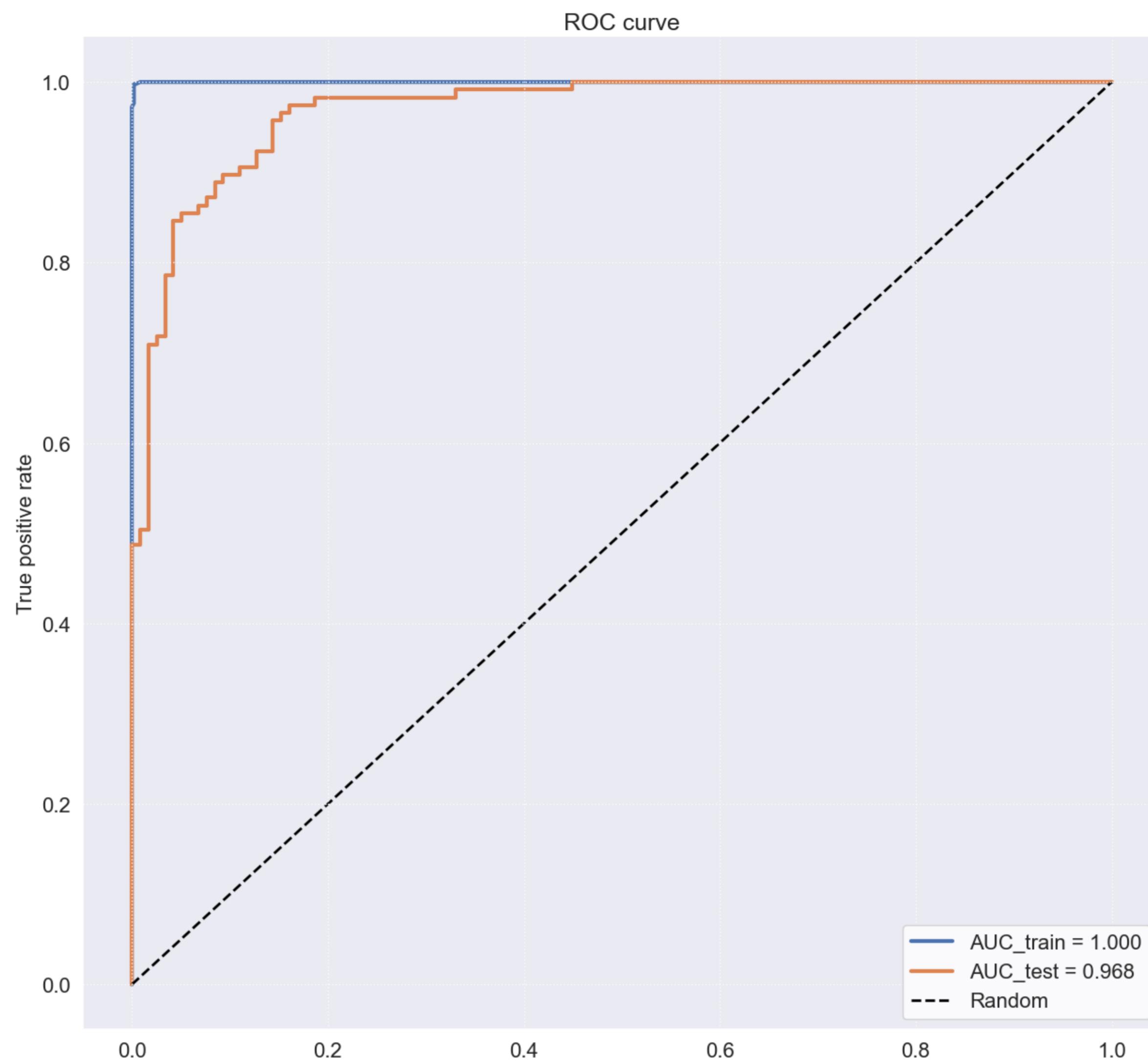
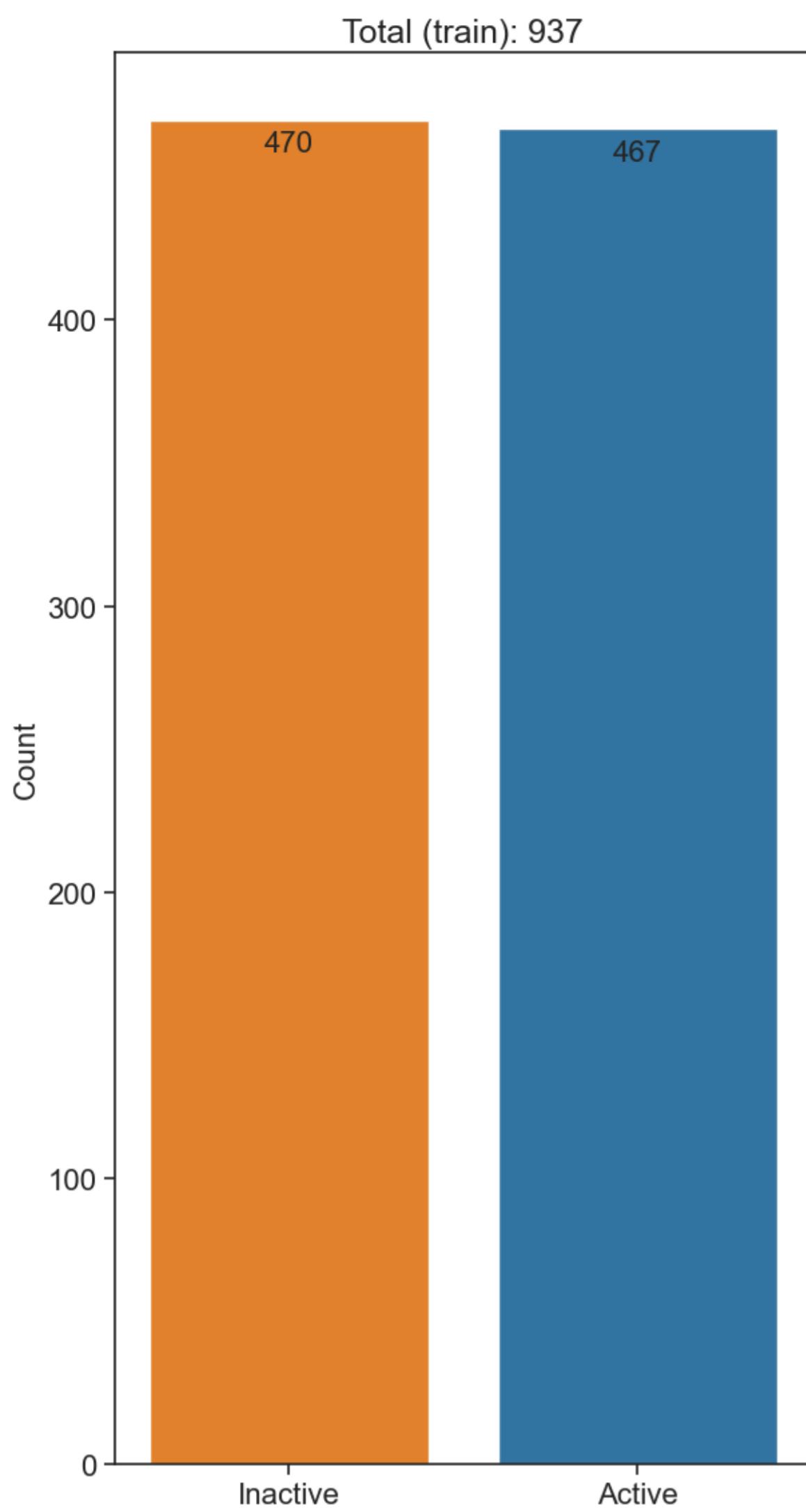


XGBoost Parameters	Value
alpha	3.3427
colsample_bytree	0.7303
gamma	0.0242
lambda	3.928
learning_rate	0.1492
max_depth	8.0
min_child_weight	1.0
n_estimators	376.0
reg_alpha	0.3282
reg_lambda	0.5551
scale_pos_weight	3.4607
subsample	0.7906

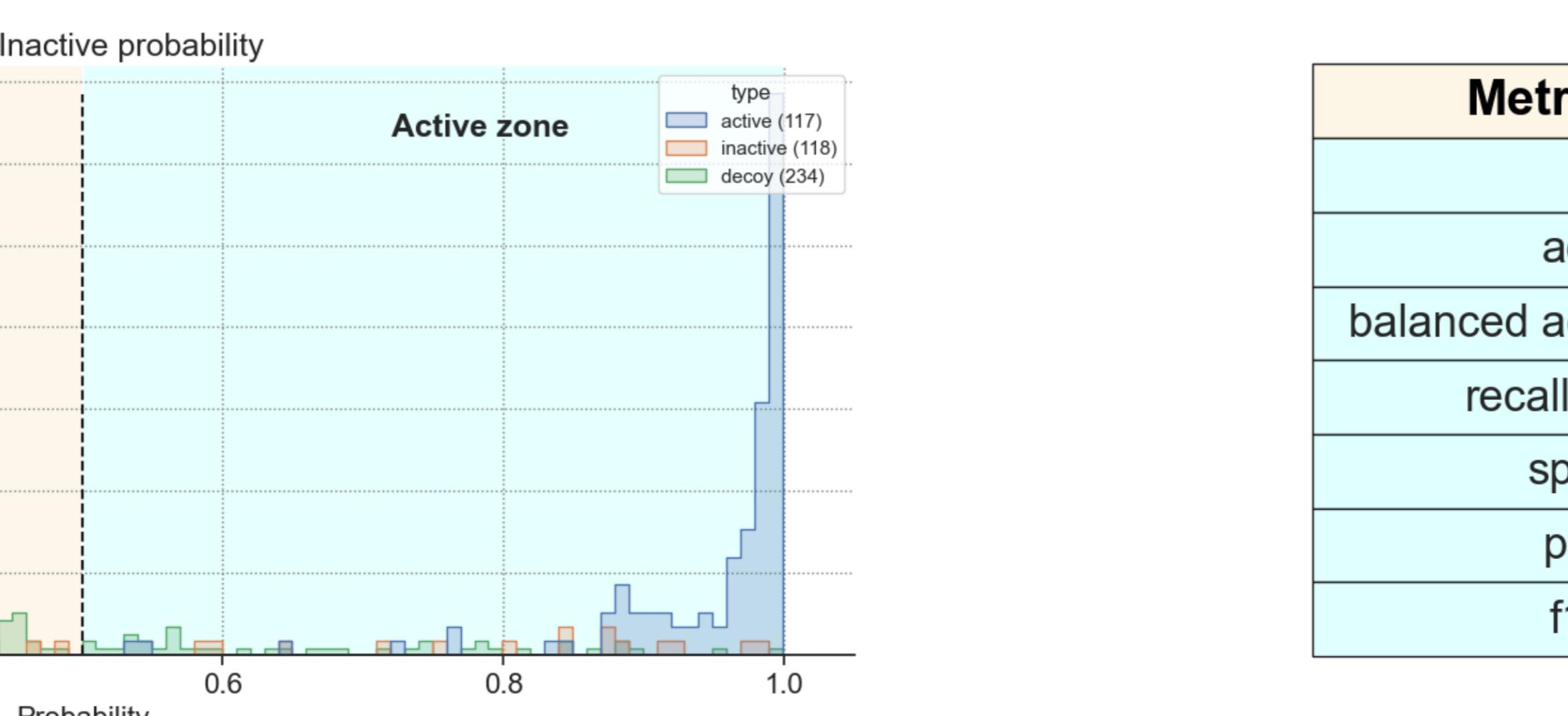
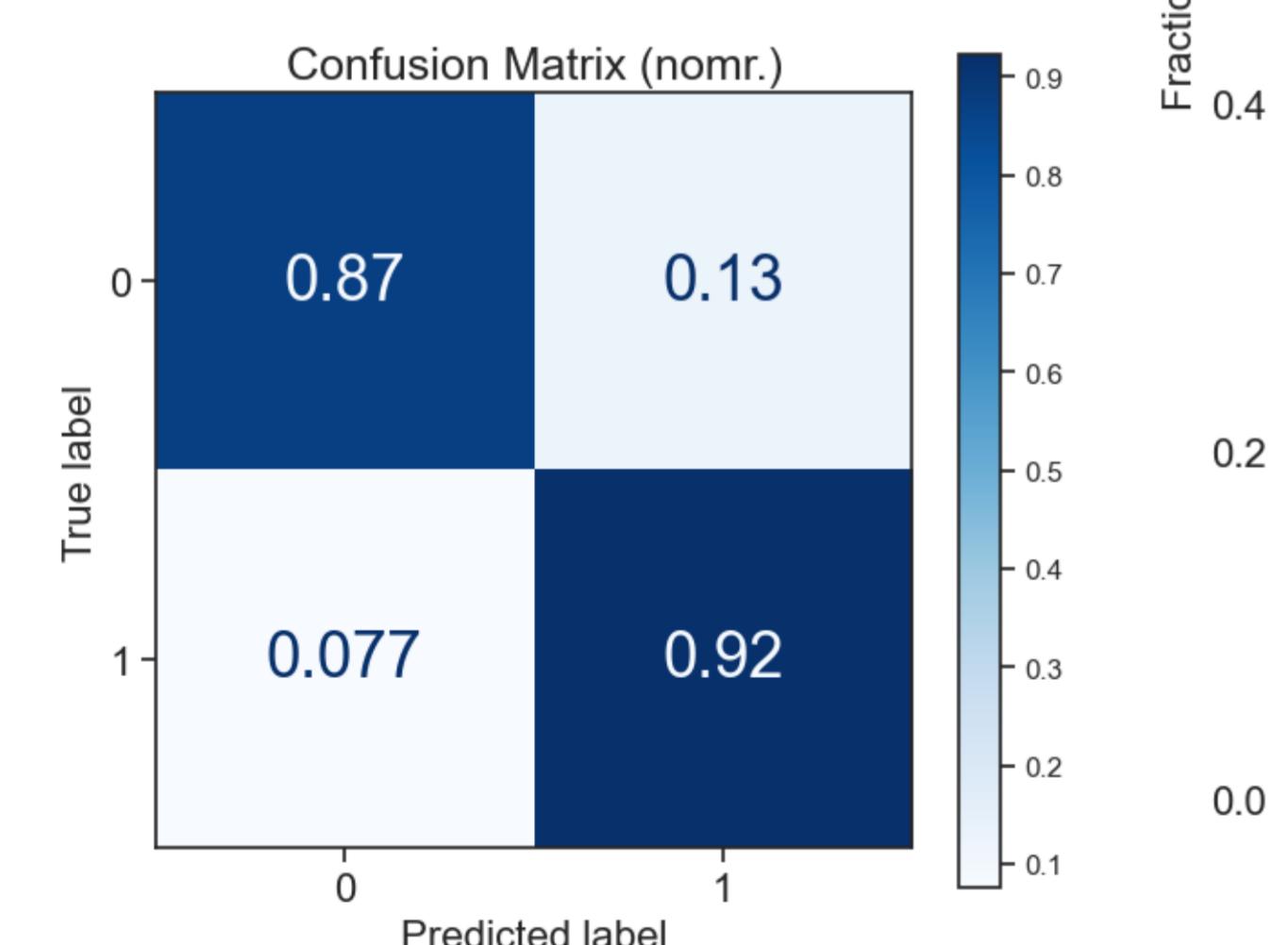
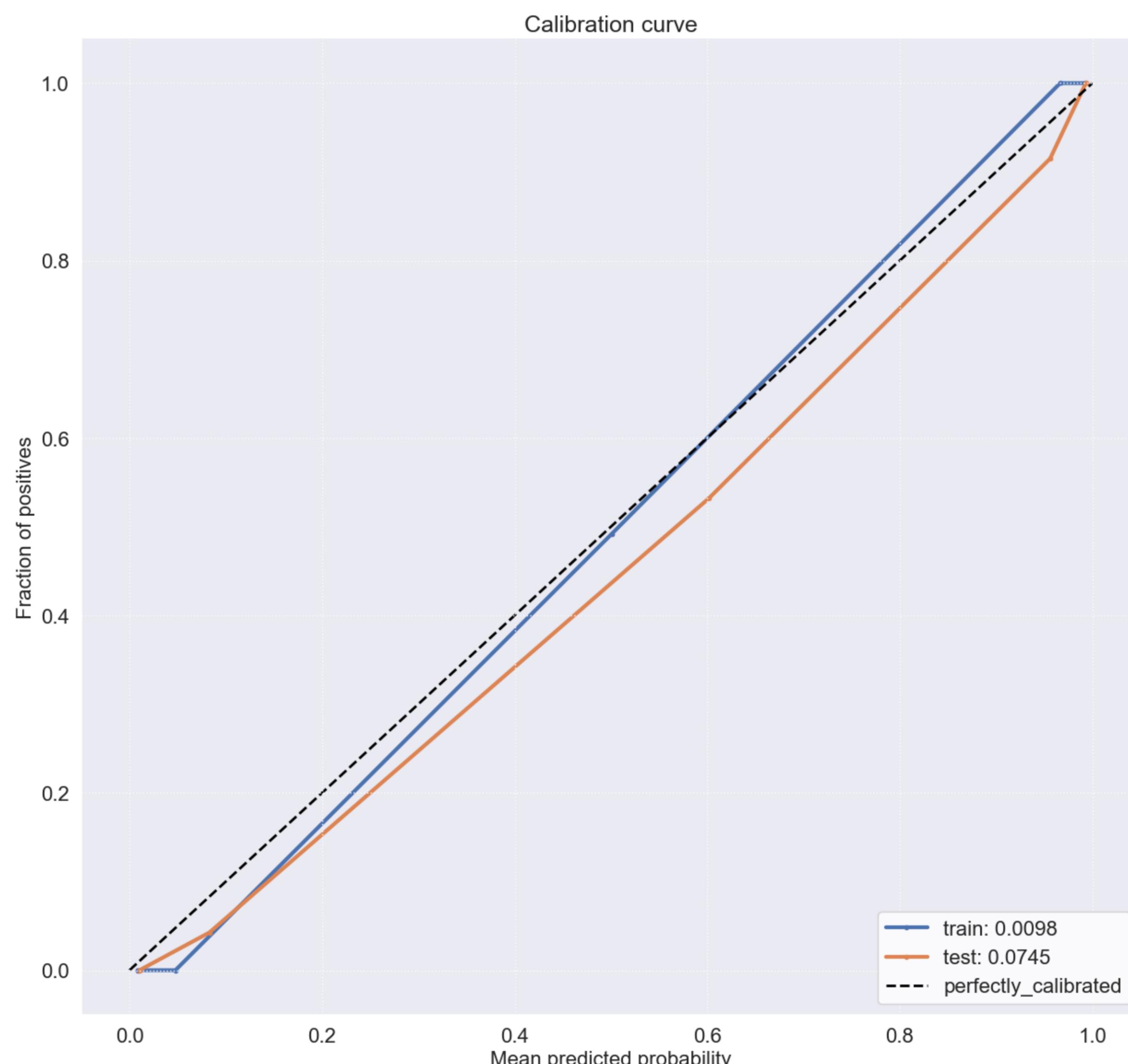
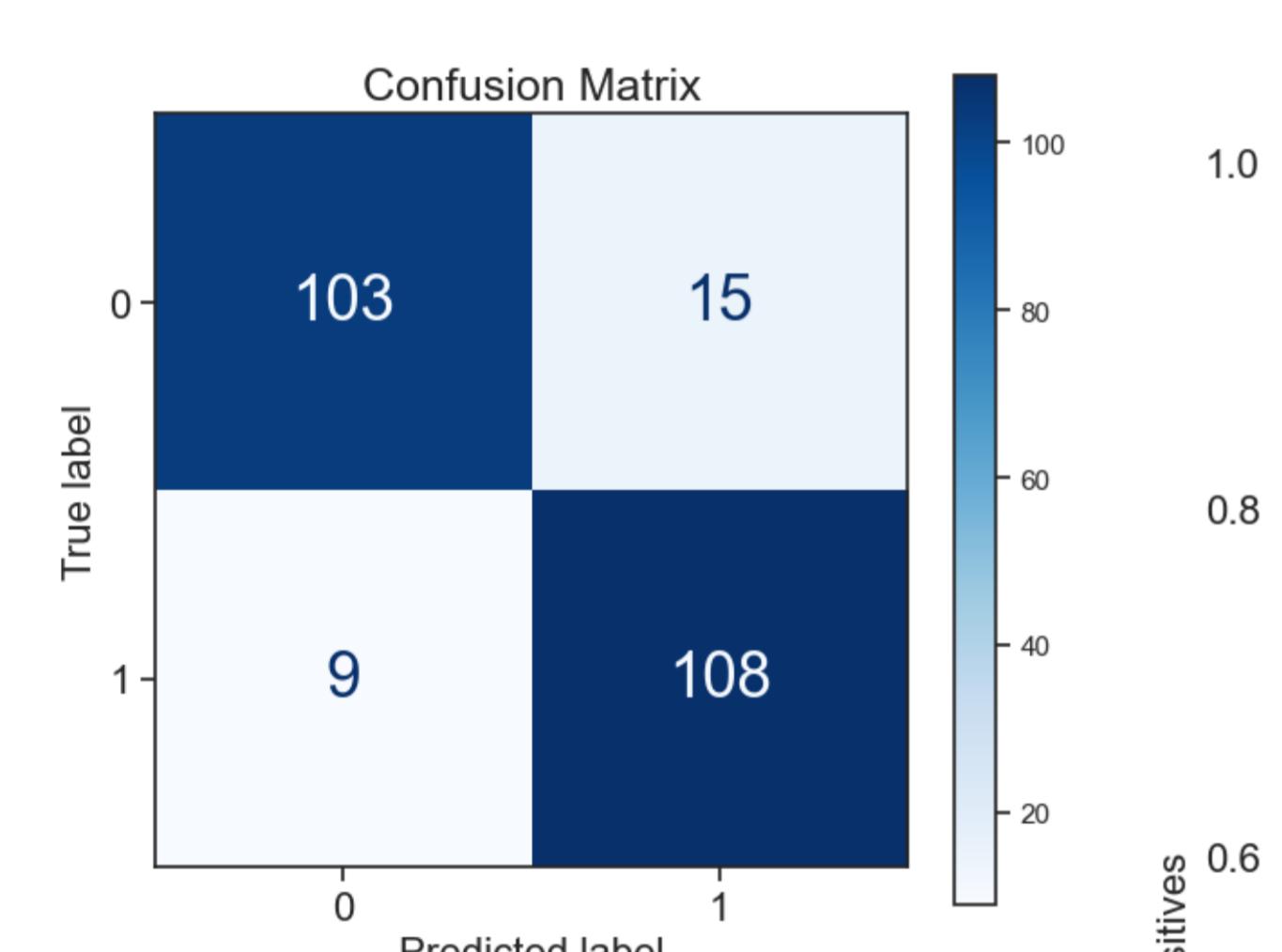


Metric	Train	Test
AUC	1.0	0.9666
accuracy	0.9968	0.8894
balanced accuracy	0.9968	0.8896
recall_(sens)	1.0	0.9573
specificity	0.9936	0.822
precision	0.9936	0.8421
f1_score	0.9968	0.8889

Protein: Q92769 - metric: precision

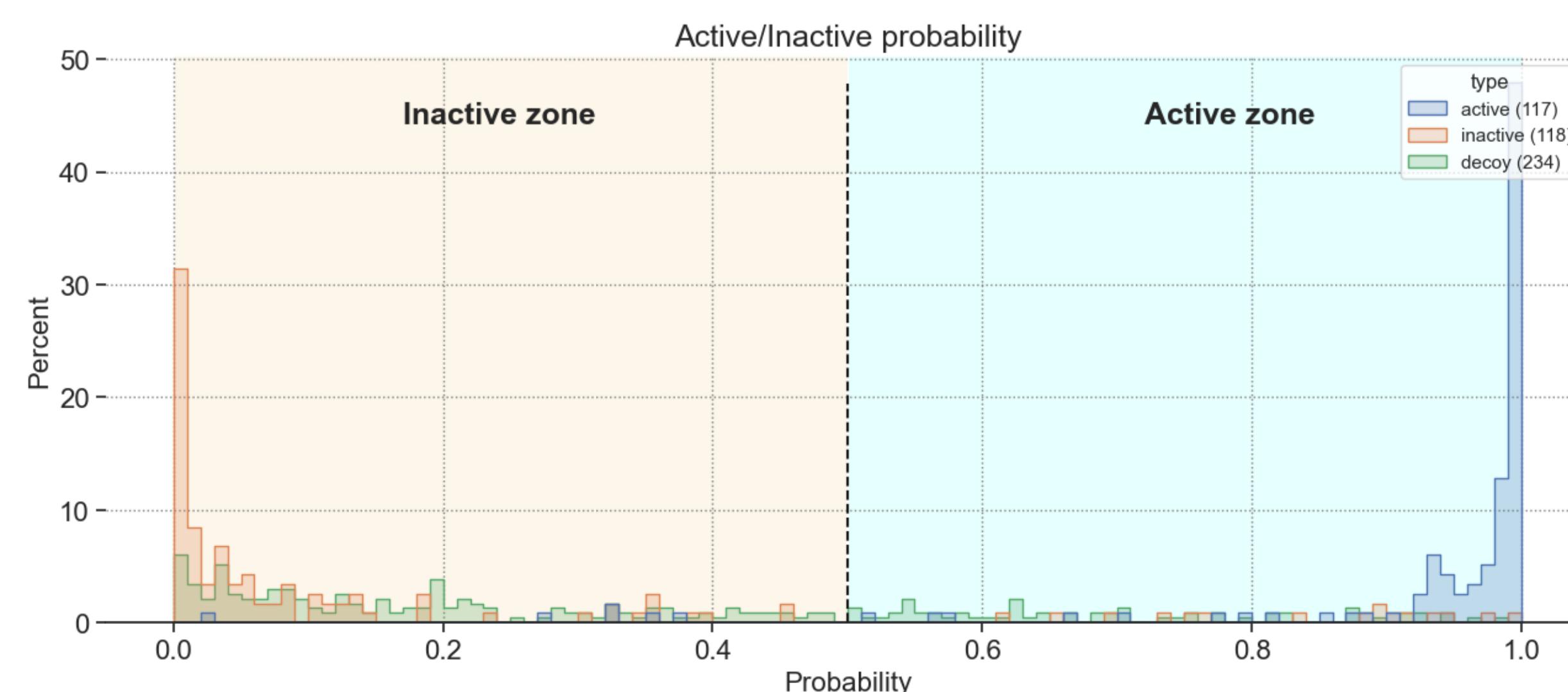
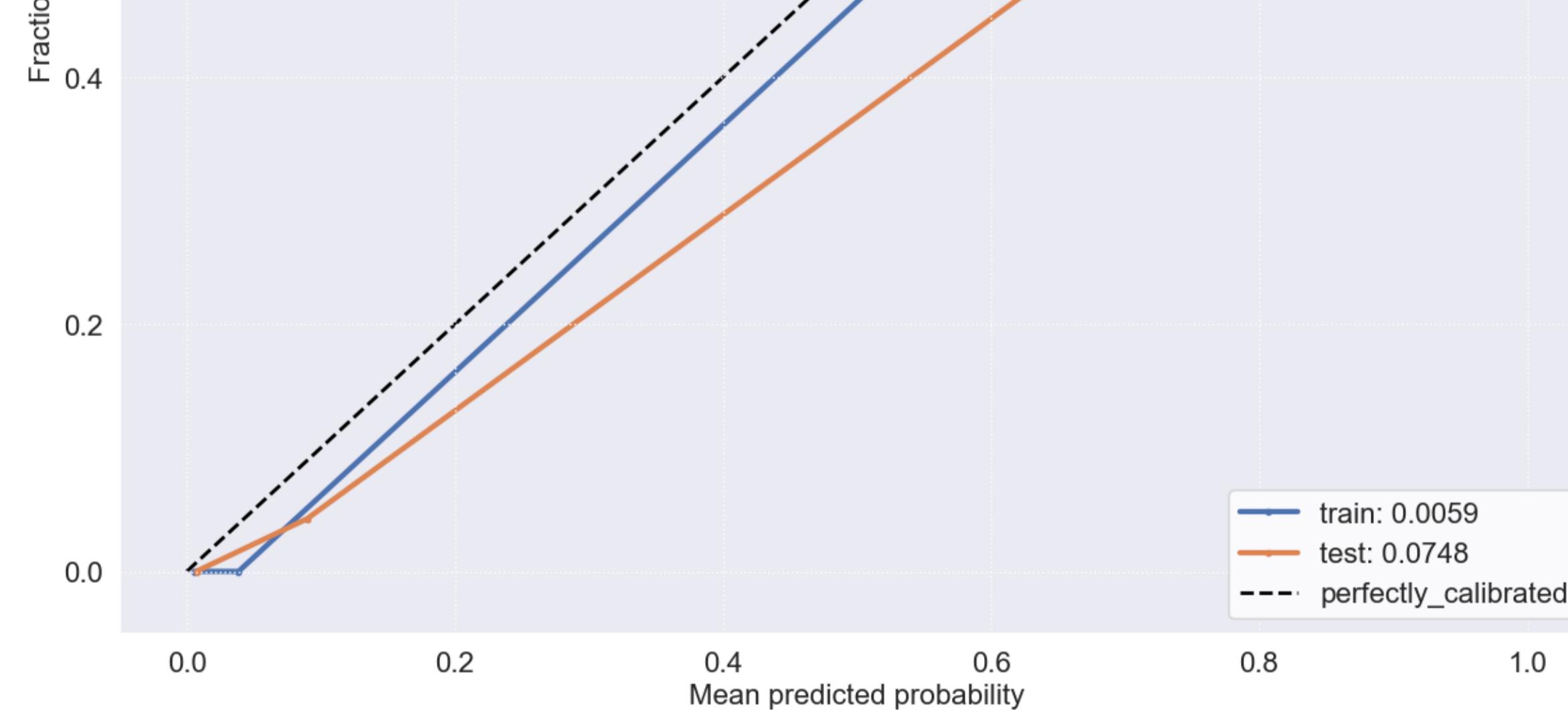
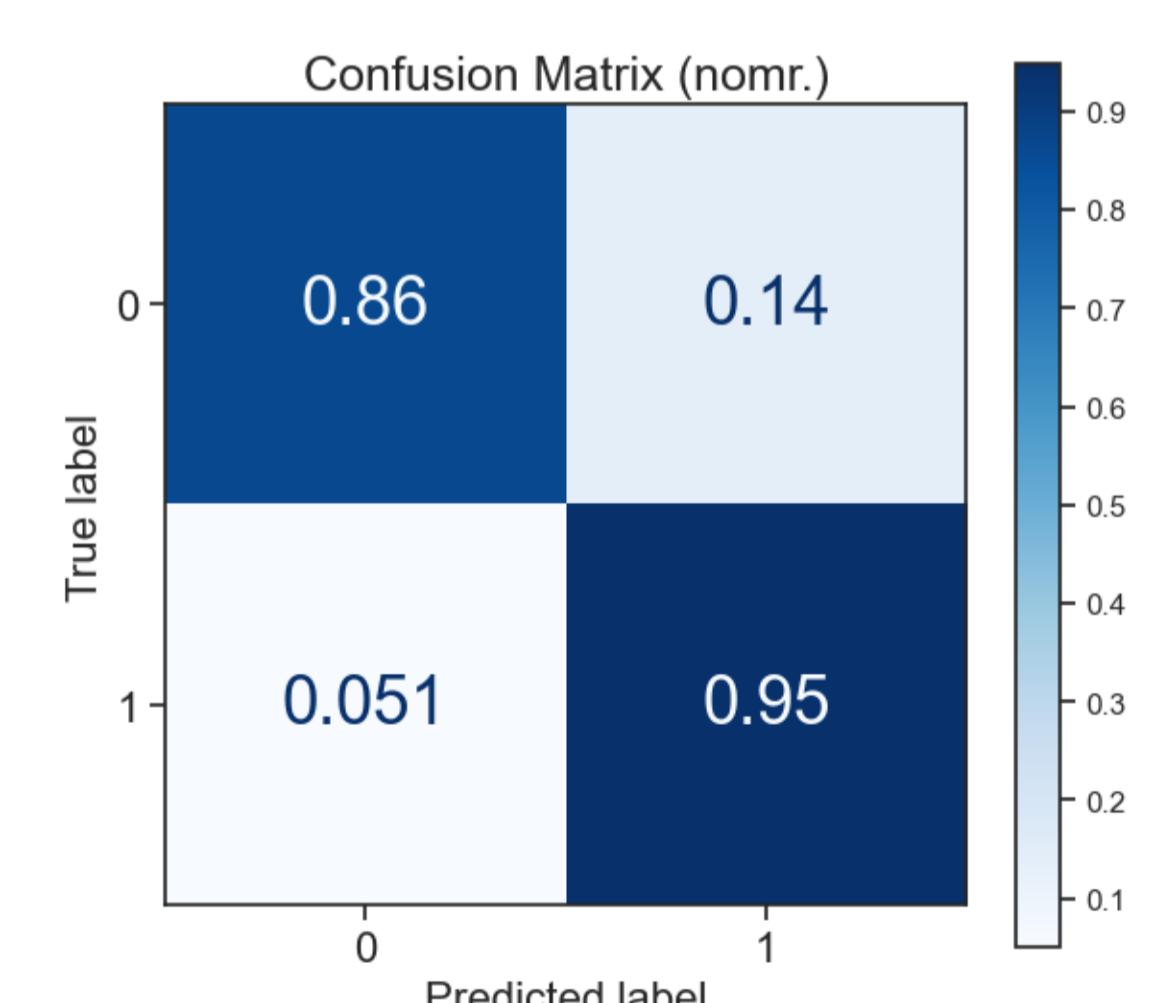
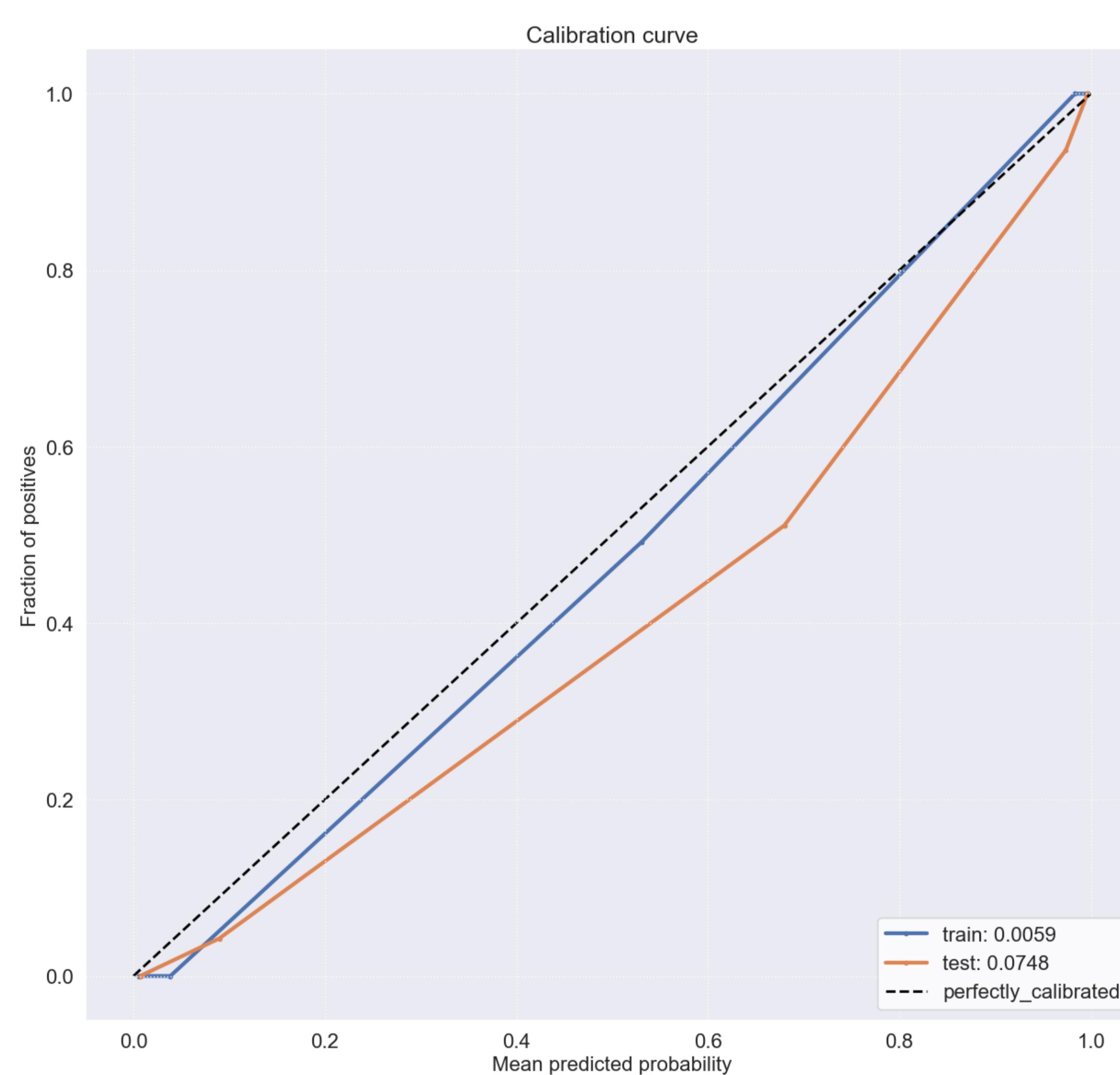
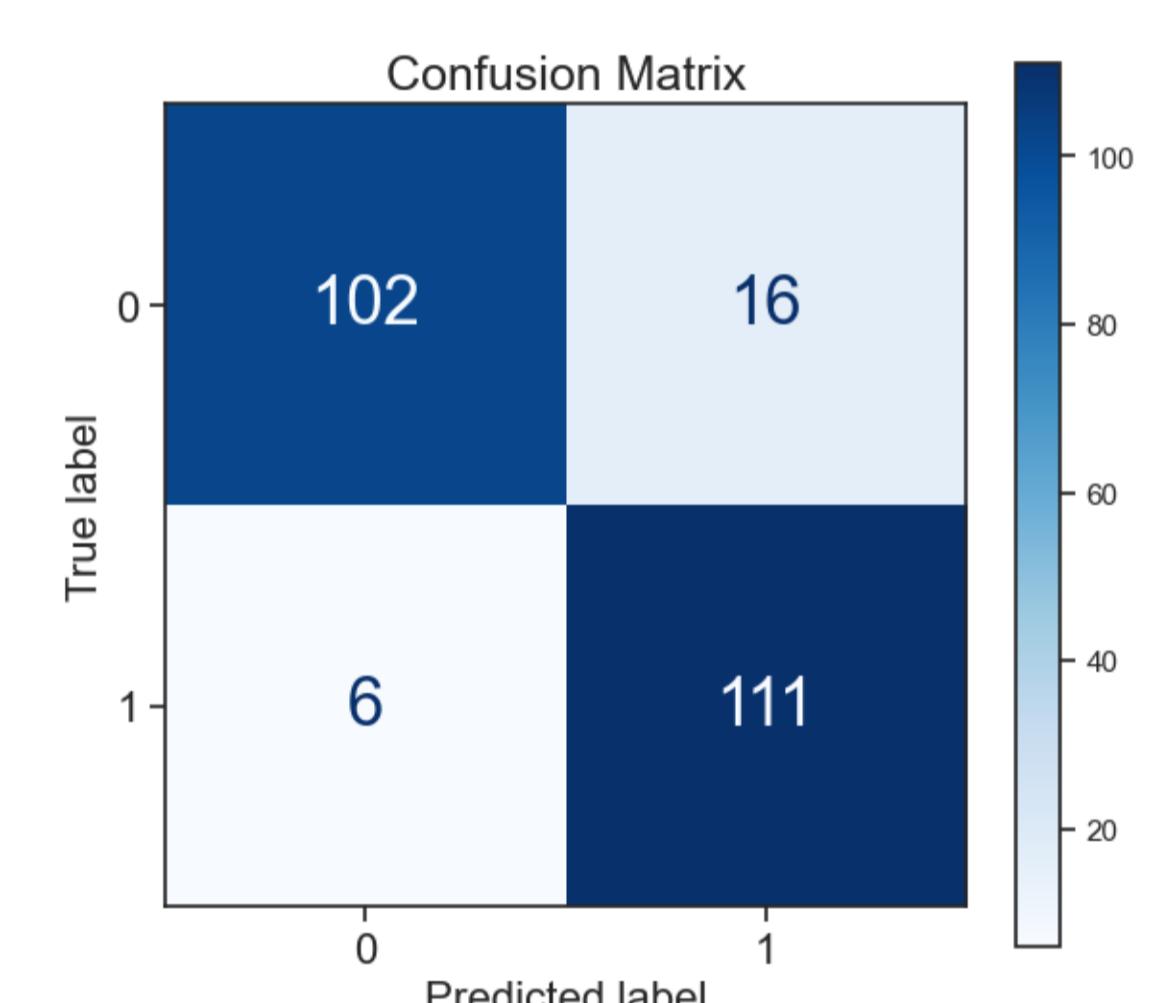
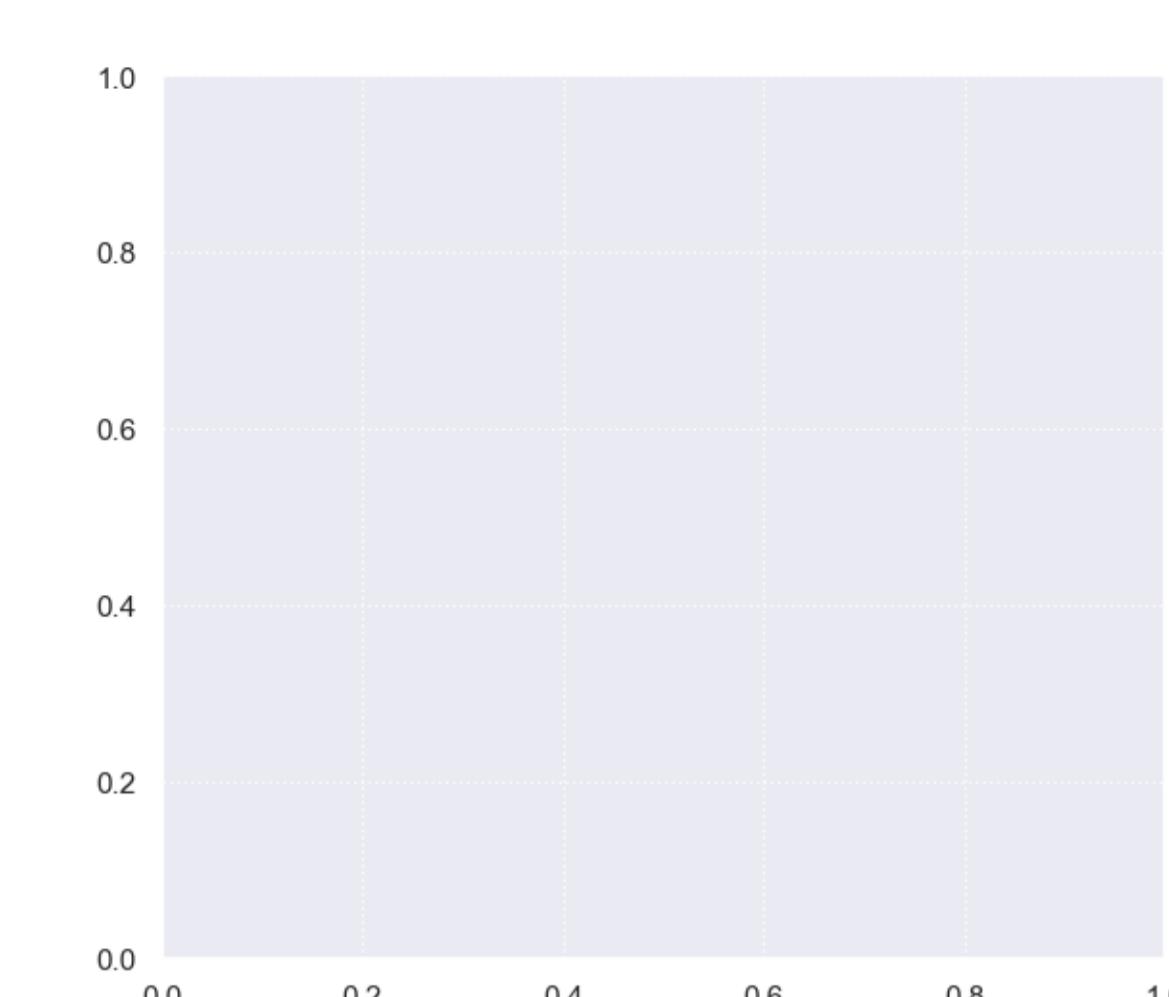
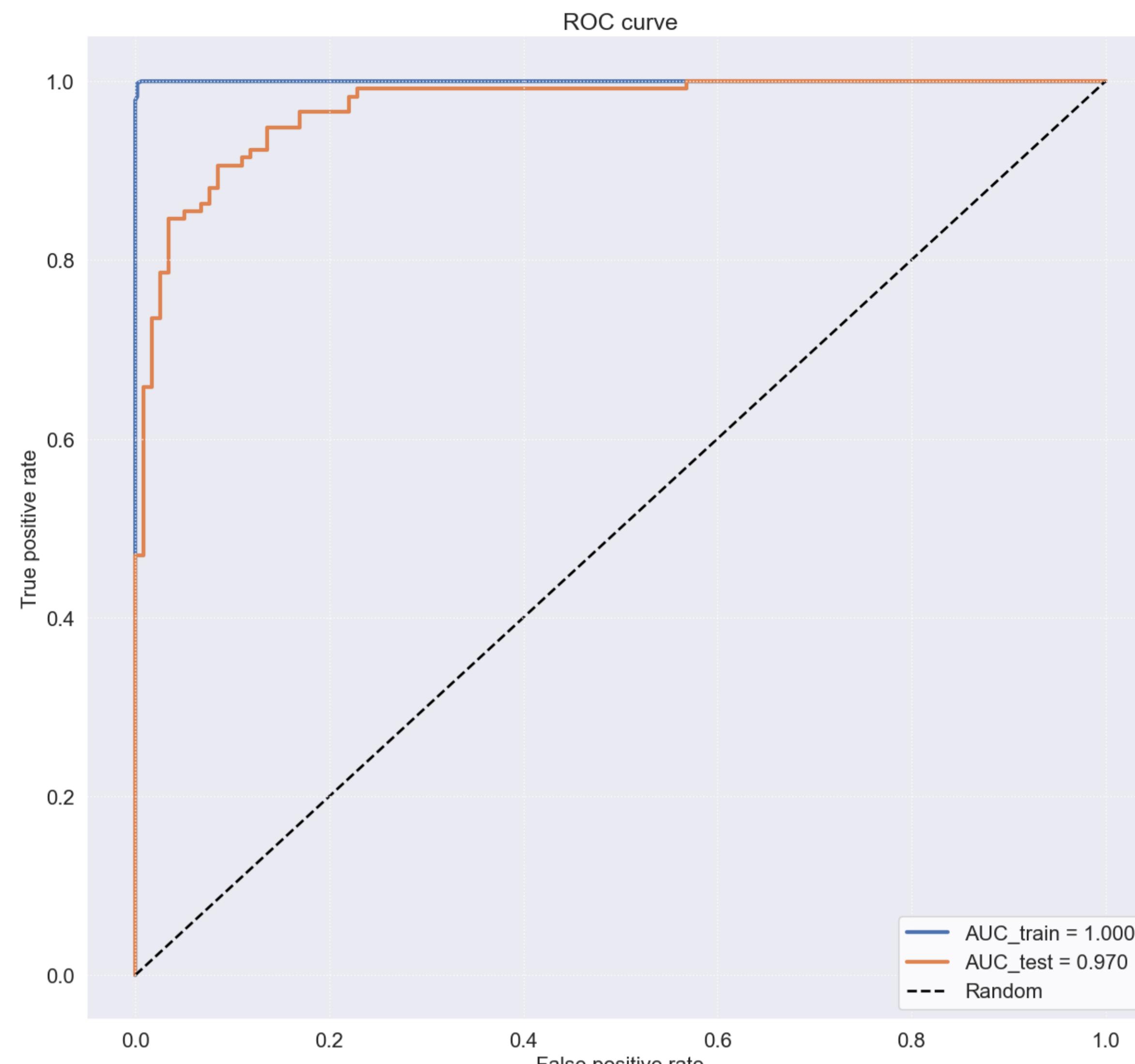
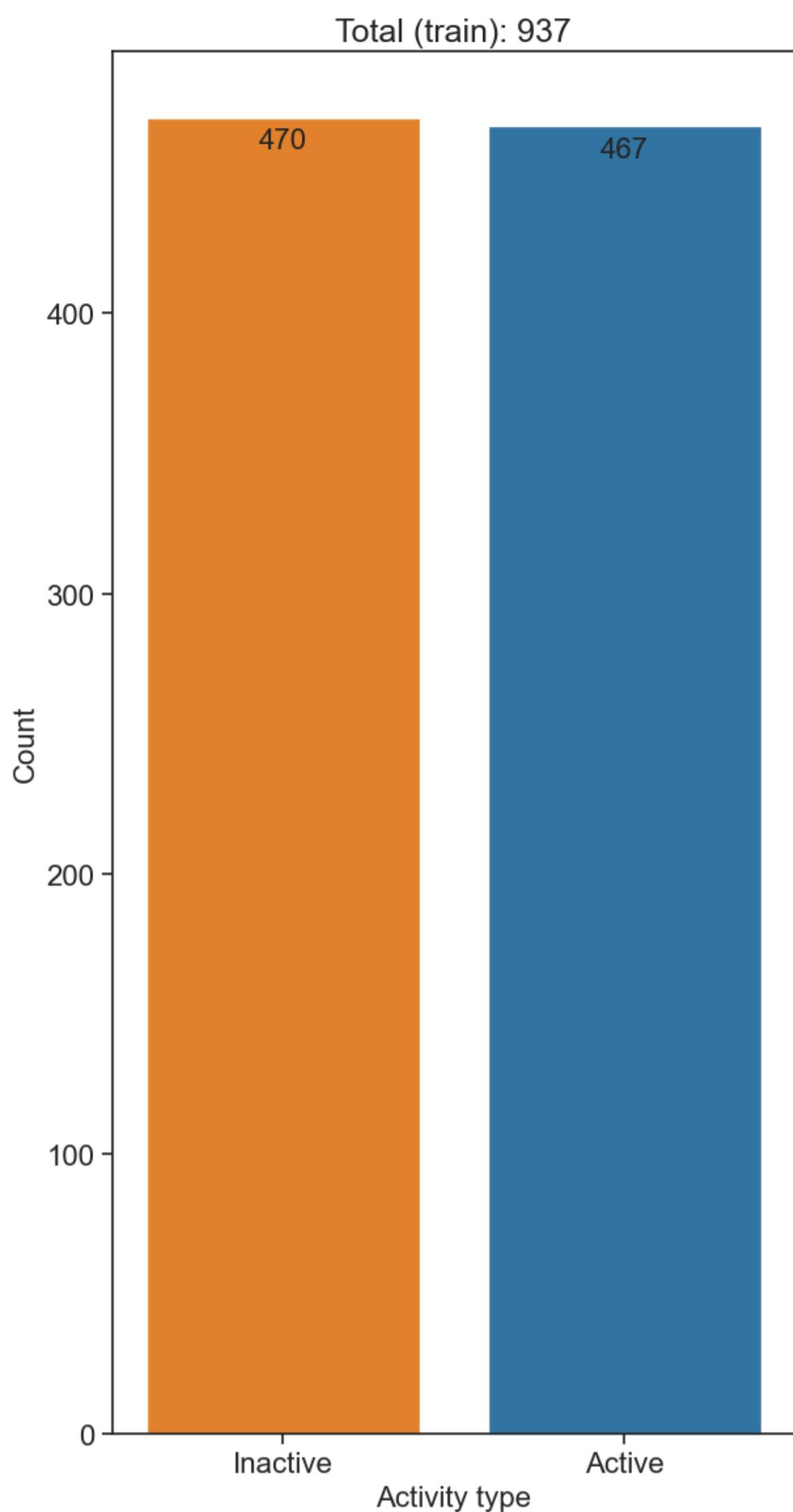


XGBoost Parameters	Value
alpha	3.7127
colsample_bytree	0.9009
gamma	0.0199
lambda	0.8909
learning_rate	0.0915
max_depth	8.0
min_child_weight	2.0
n_estimators	297.0
reg_alpha	0.055
reg_lambda	0.6621
scale_pos_weight	1.2134
subsample	0.9019



Metric	Train	Test
AUC	0.9999	0.9684
accuracy	0.9979	0.8979
balanced accuracy	0.9979	0.898
recall_(sens)	0.9979	0.9231
specificity	0.9979	0.8729
precision	0.9979	0.878
f1_score	0.9979	0.8978

Protein: Q92769 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	1.0	0.9704
accuracy	0.9968	0.9064
balanced accuracy	0.9968	0.9066
recall_(sens)	1.0	0.9487
specificity	0.9936	0.8644
precision	0.9936	0.874
f1_score	0.9968	0.9062