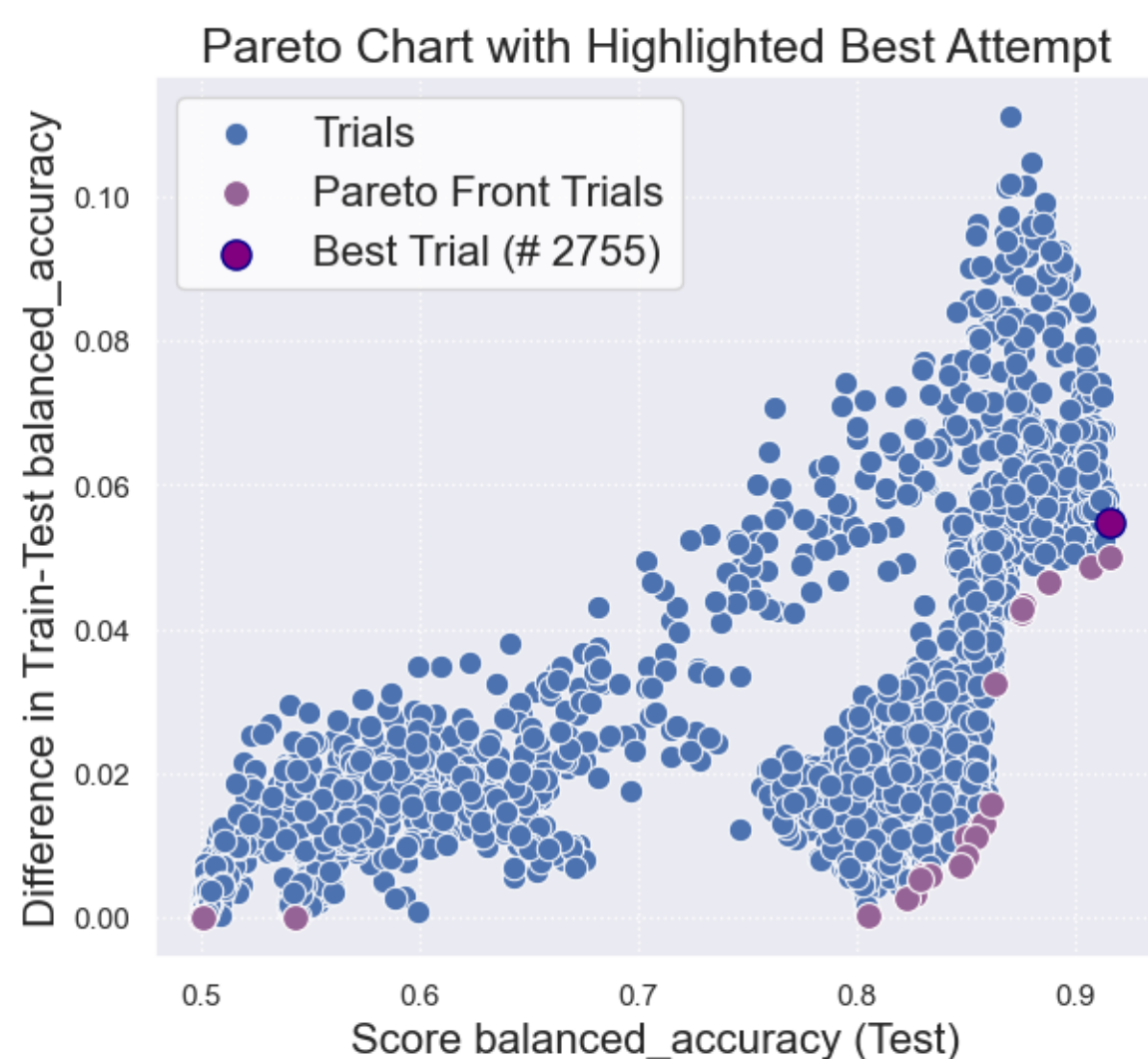
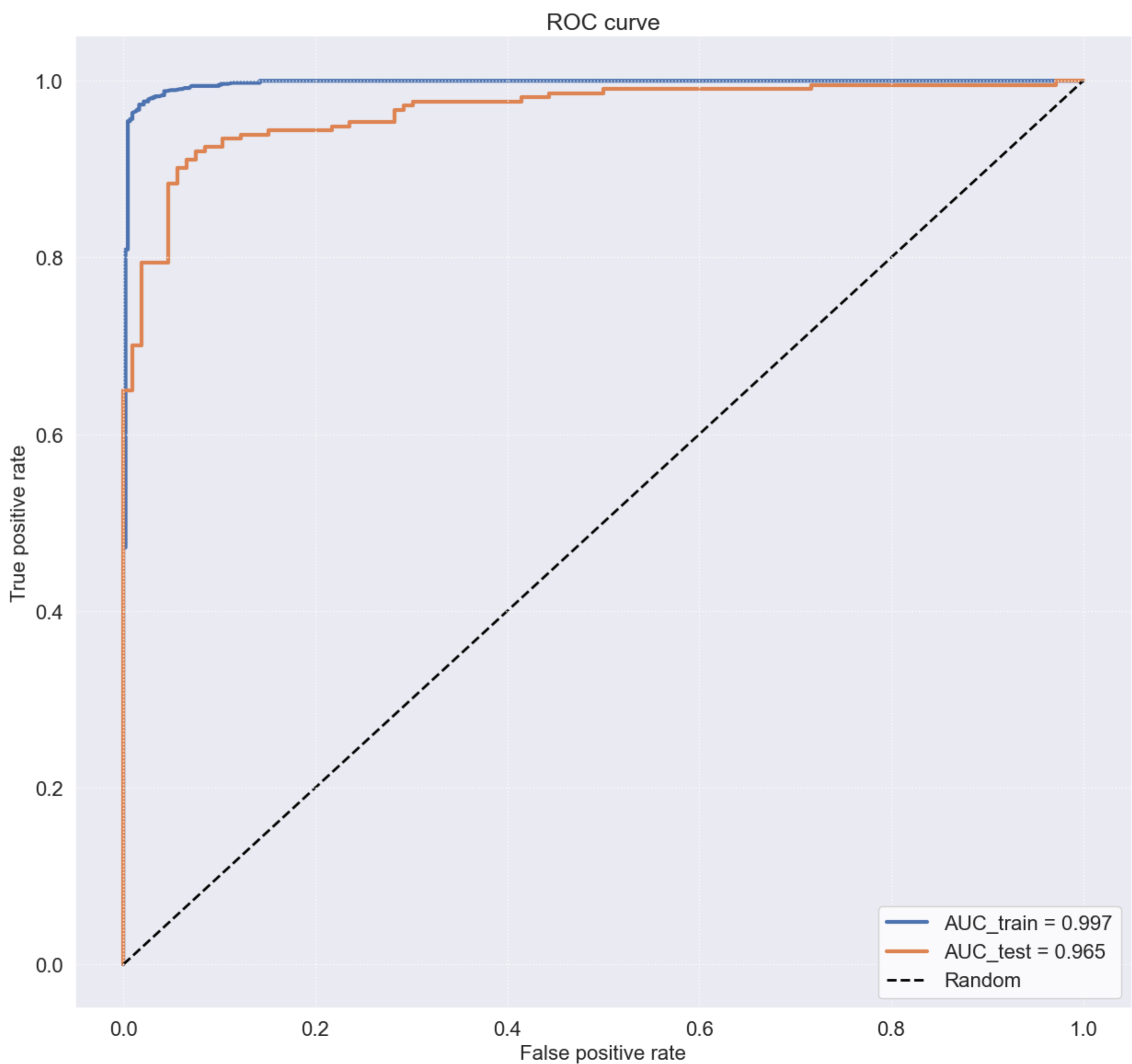
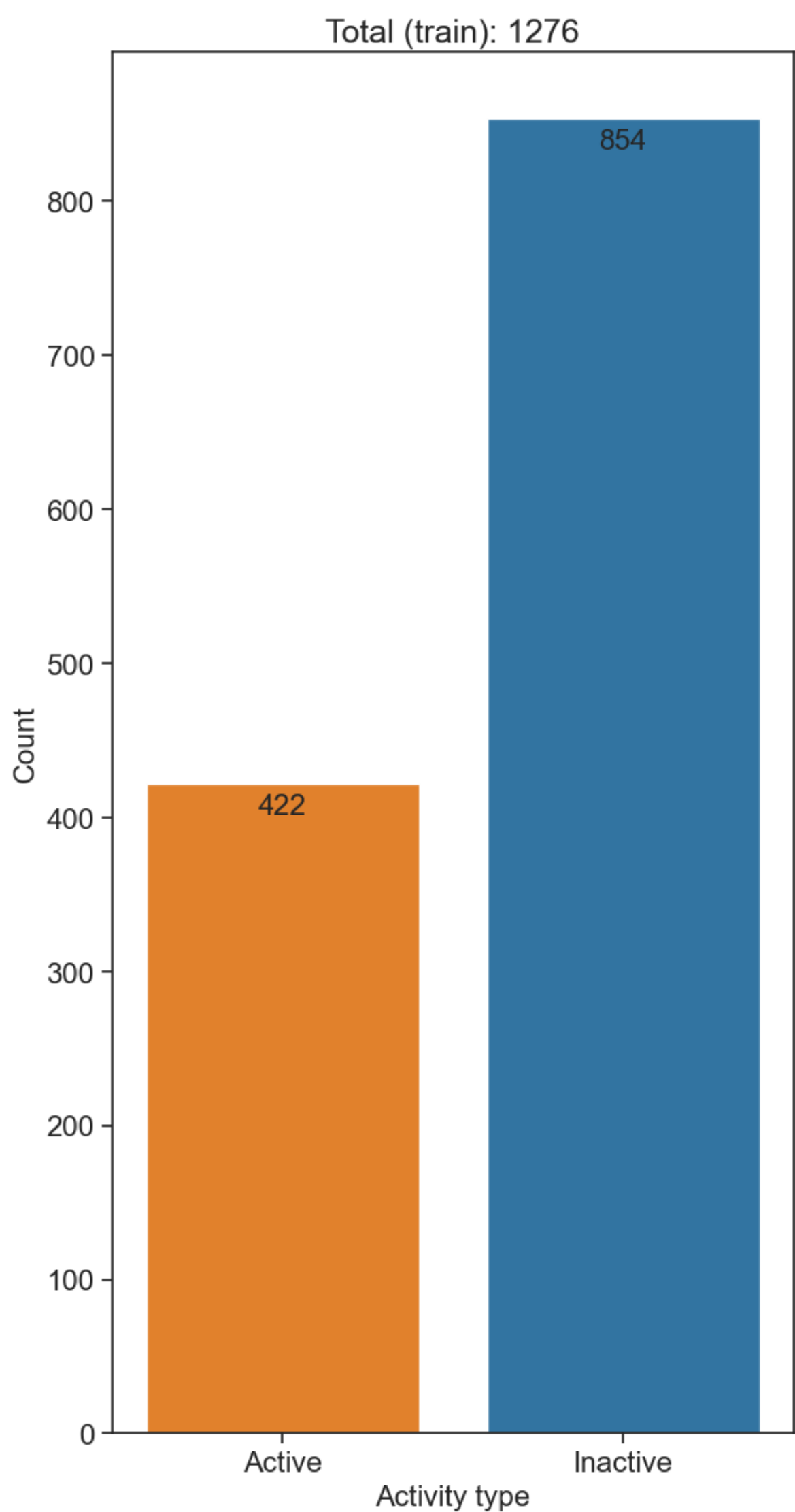
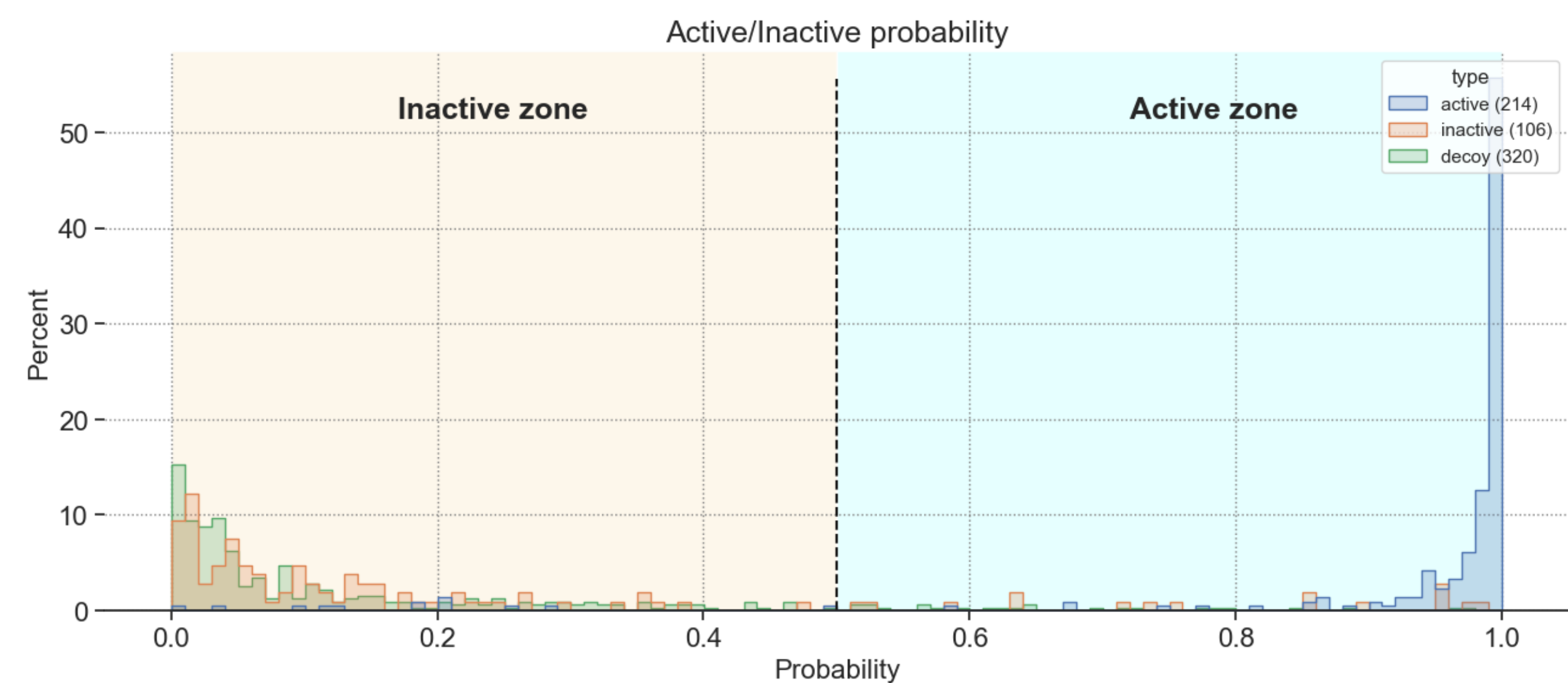
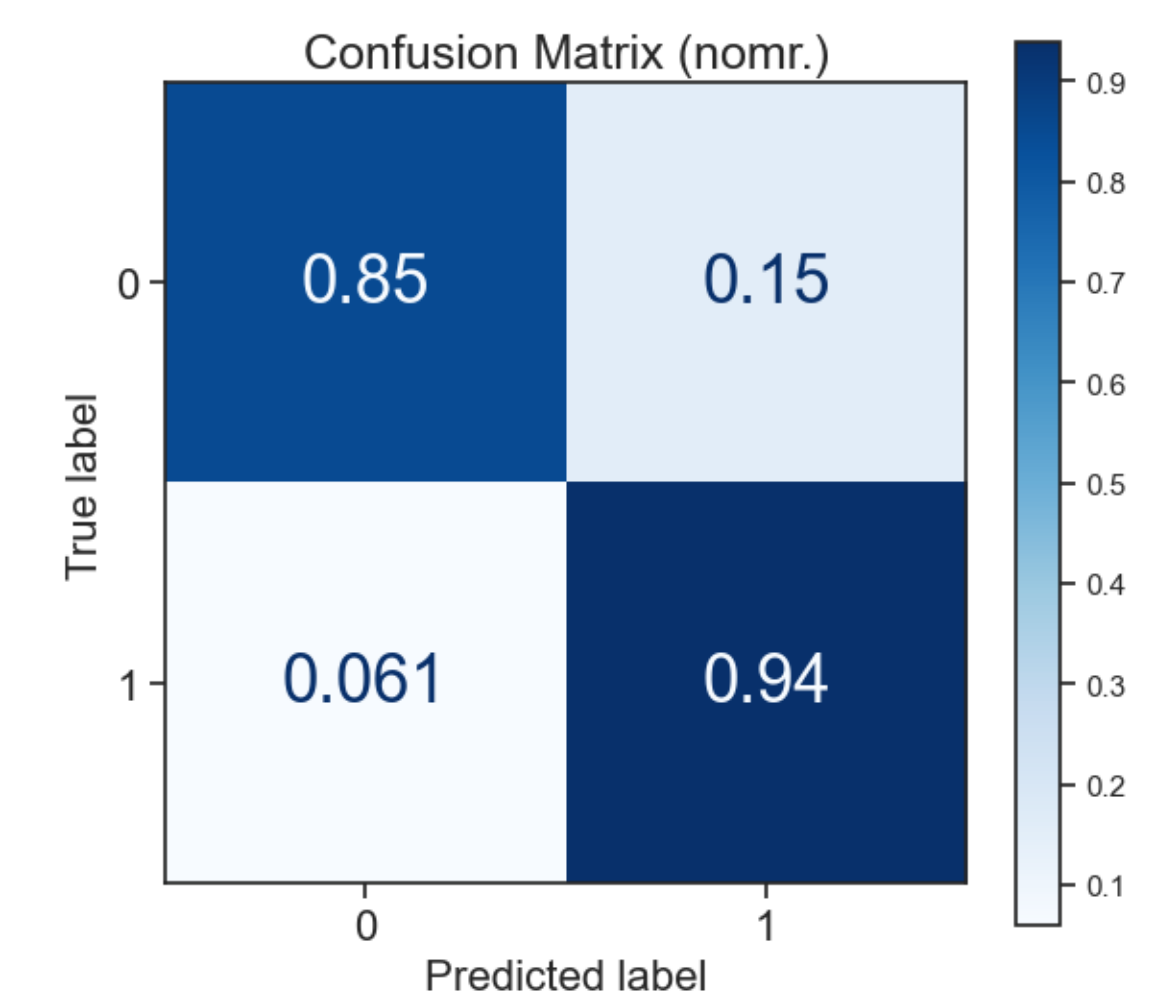
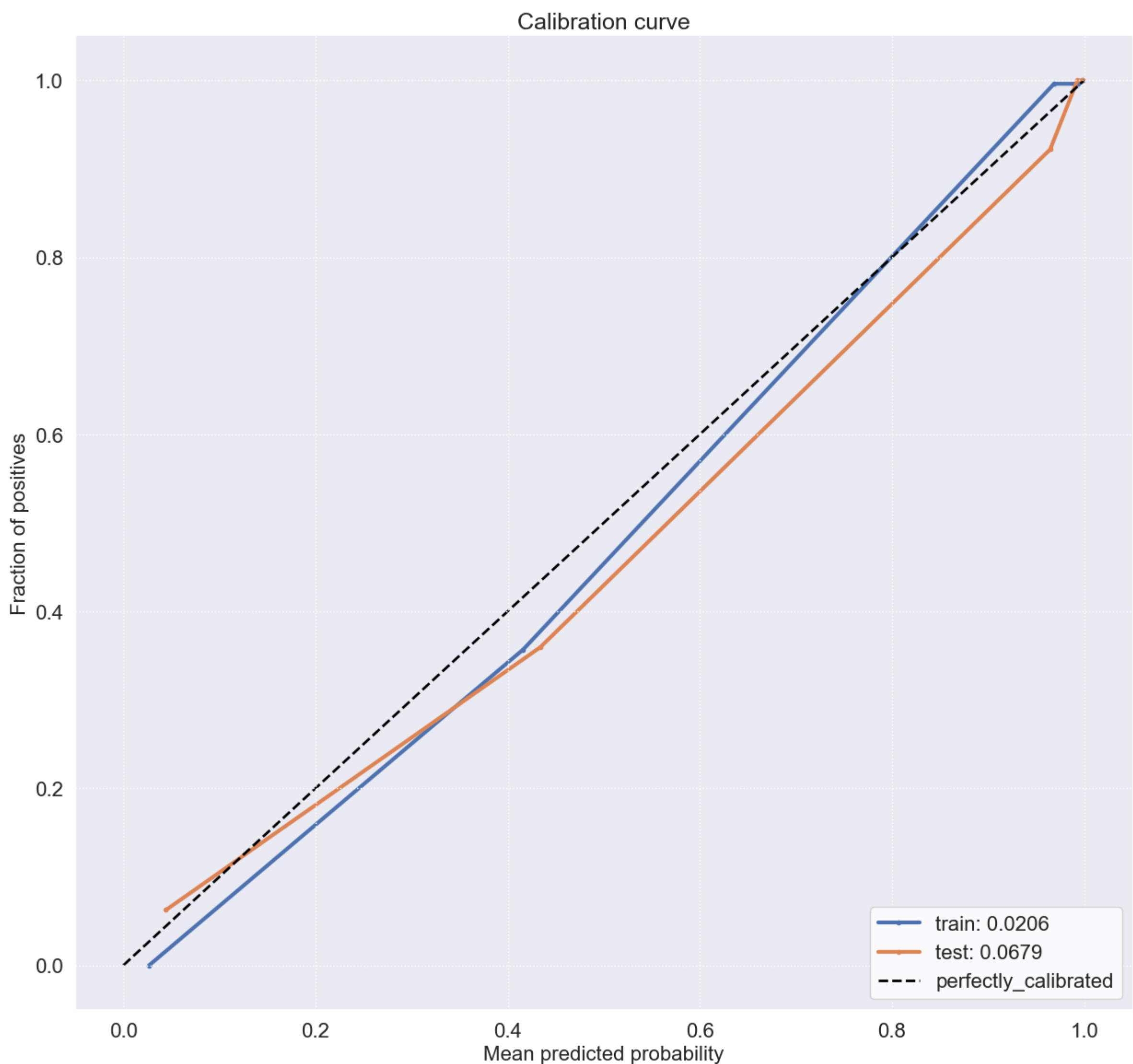
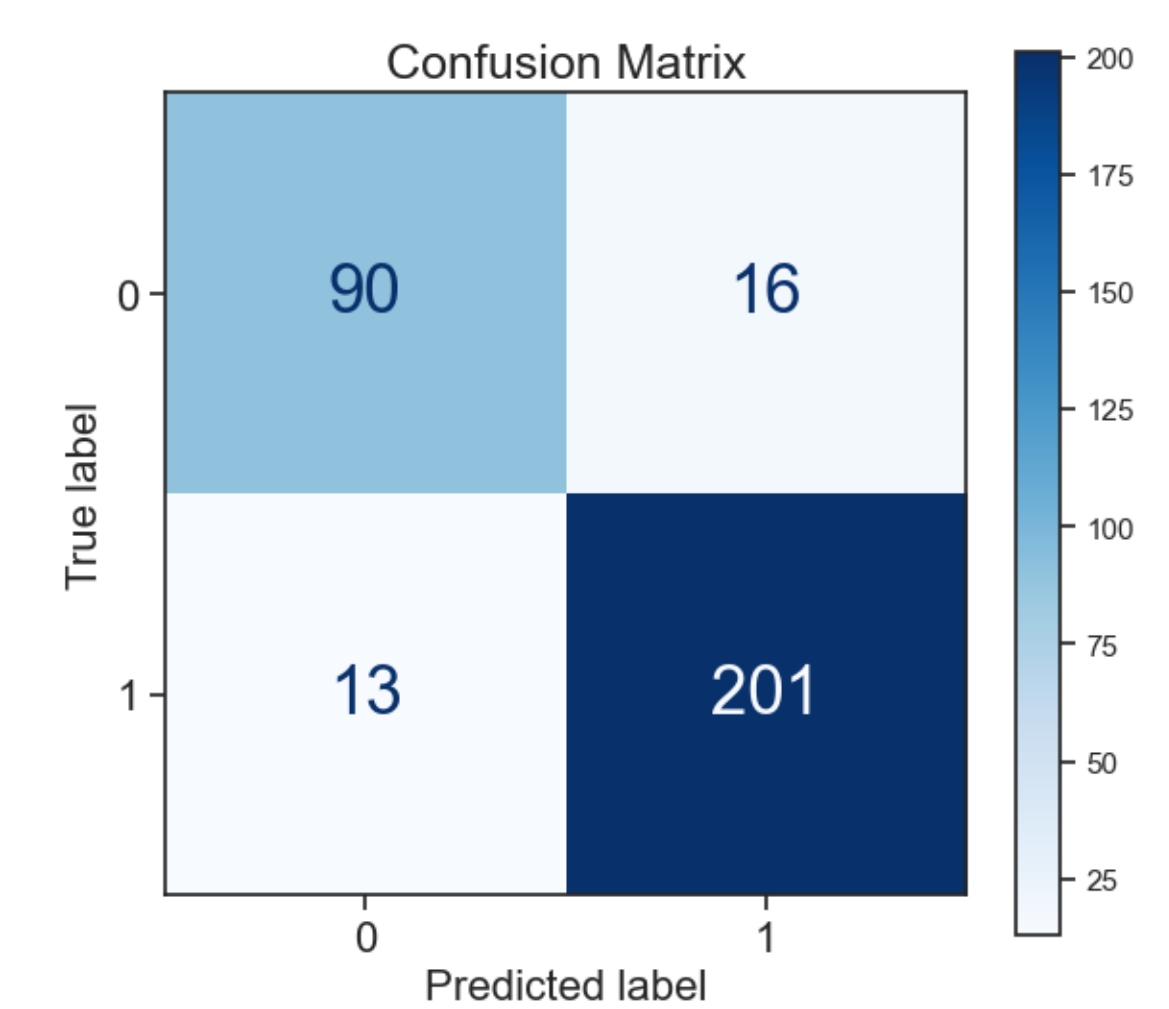


Protein: O76074 - metric: balanced_accuracy

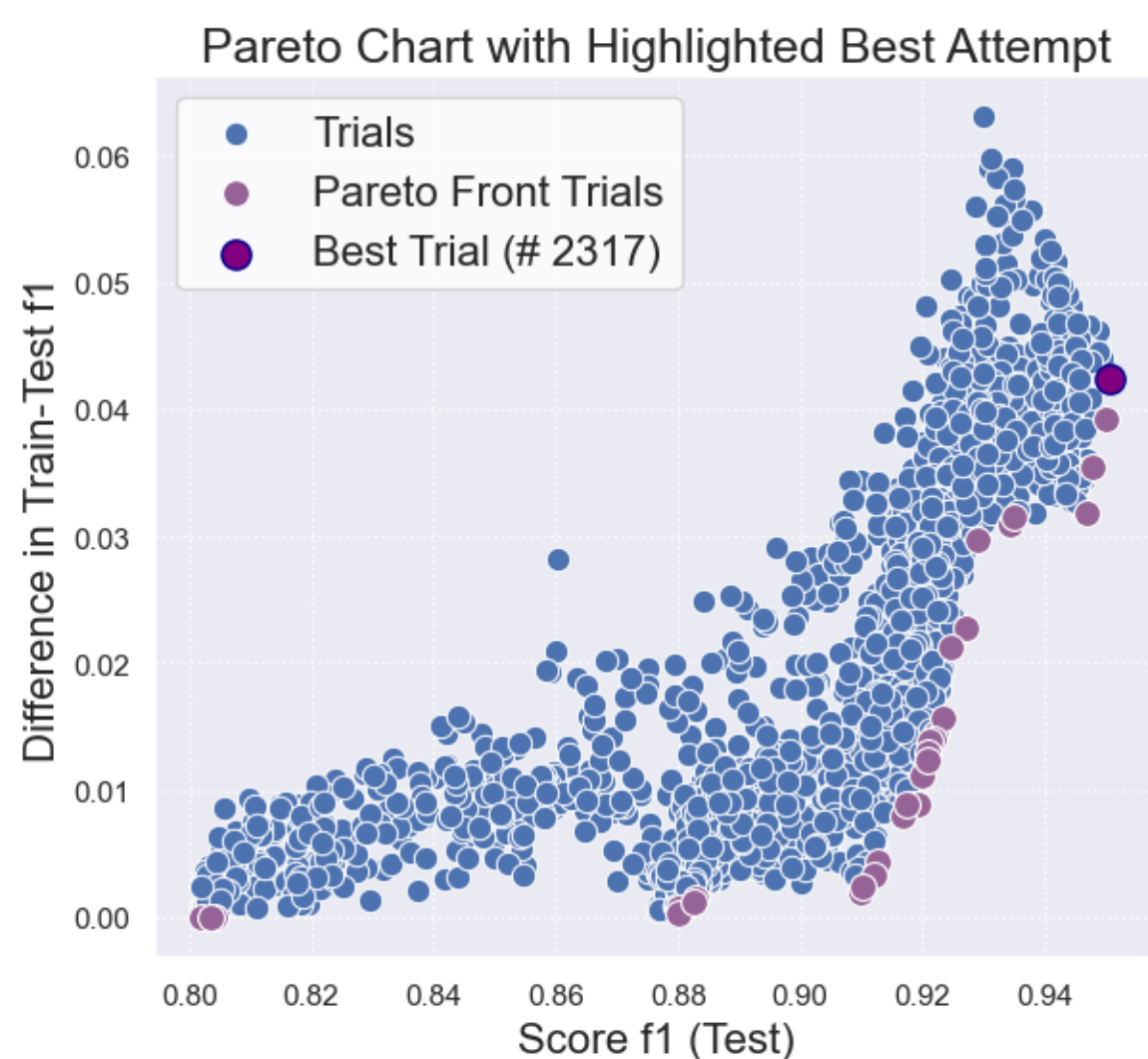
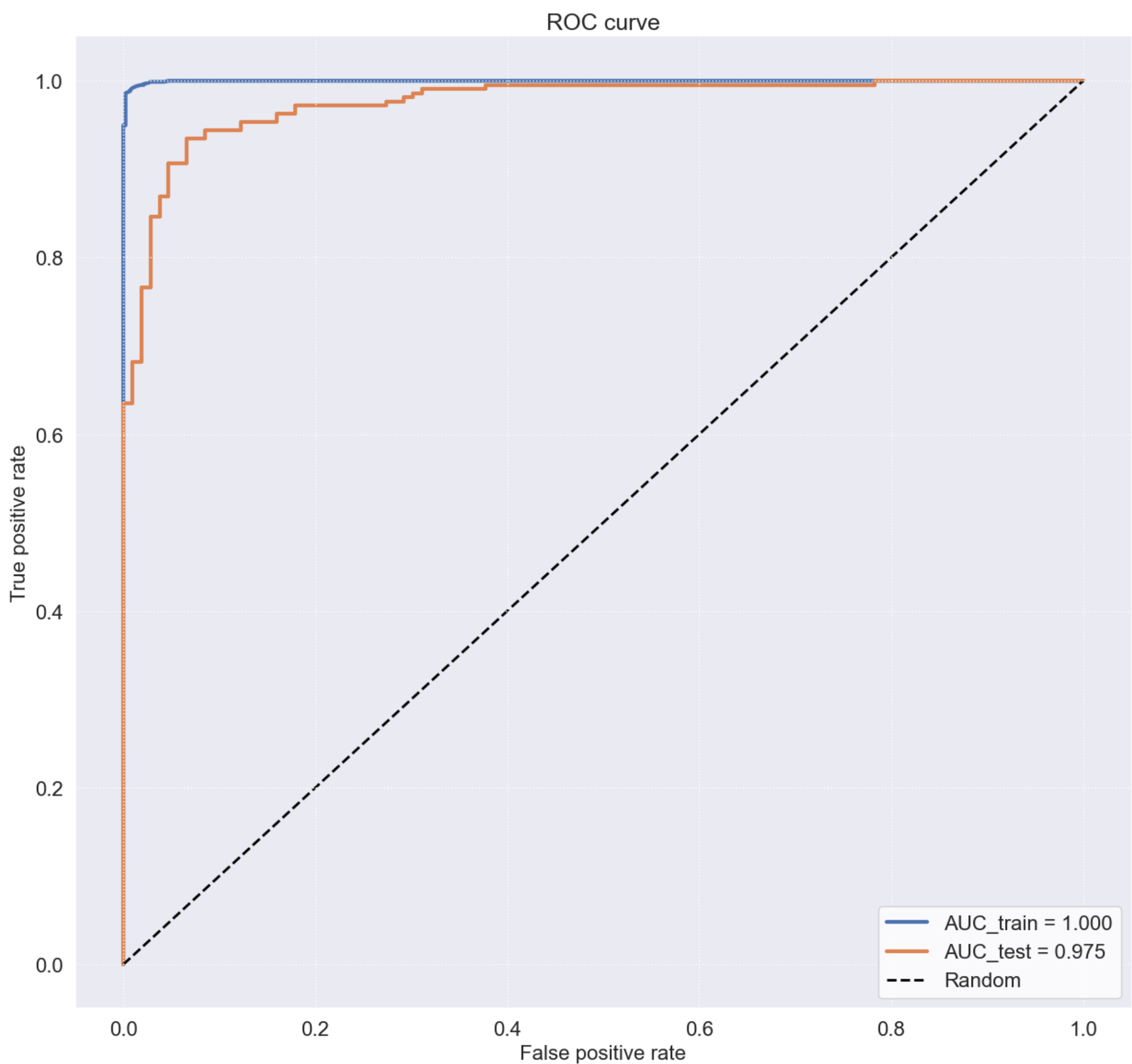
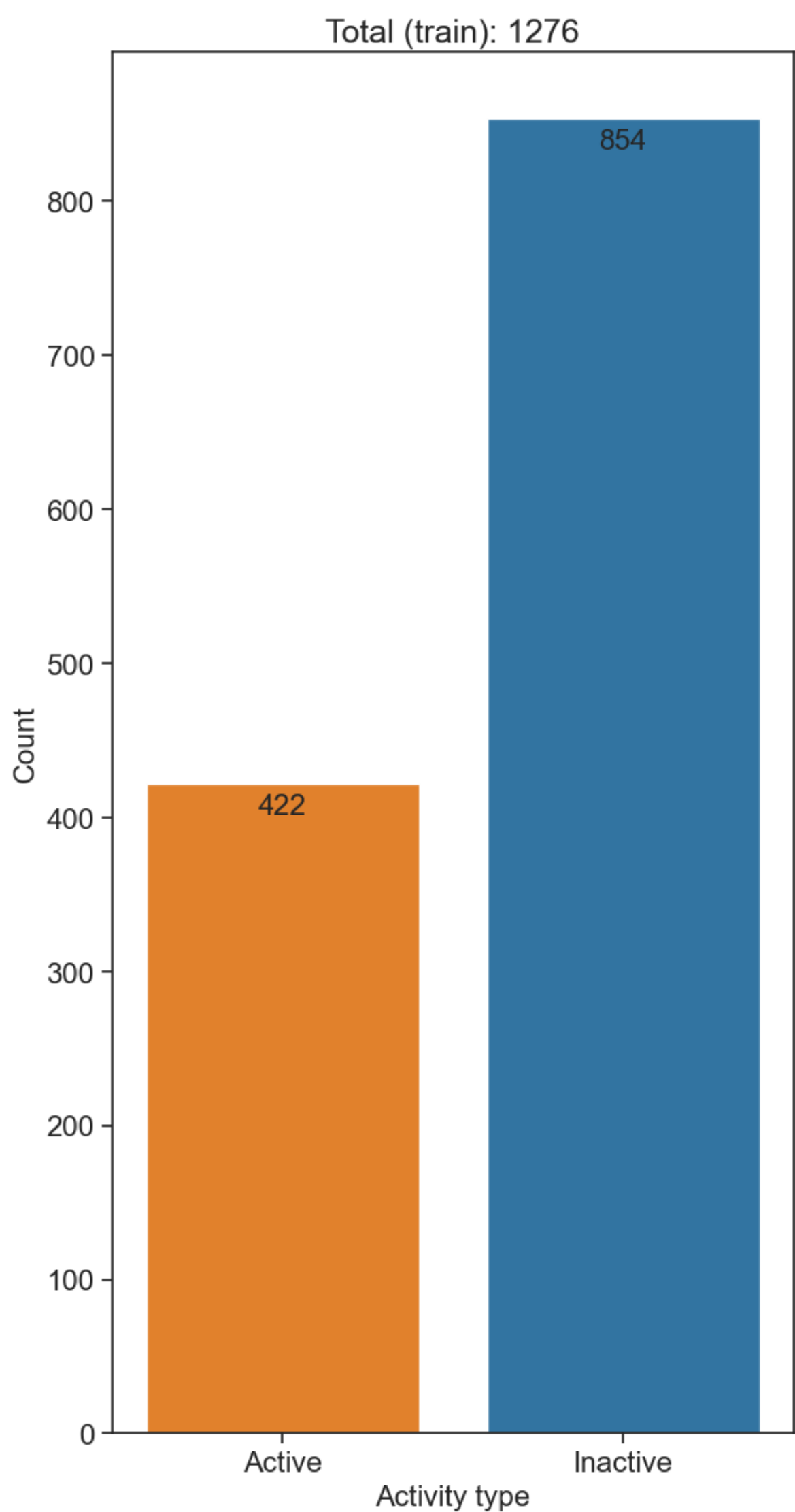


XGBoost Parameters	Value
alpha	2.0617
colsample_bytree	0.5892
gamma	0.9741
lambda	0.1609
learning_rate	0.0729
max_depth	5.0
min_child_weight	3.0
n_estimators	523.0
reg_alpha	0.1237
reg_lambda	0.3237
scale_pos_weight	1.4201
subsample	0.5071

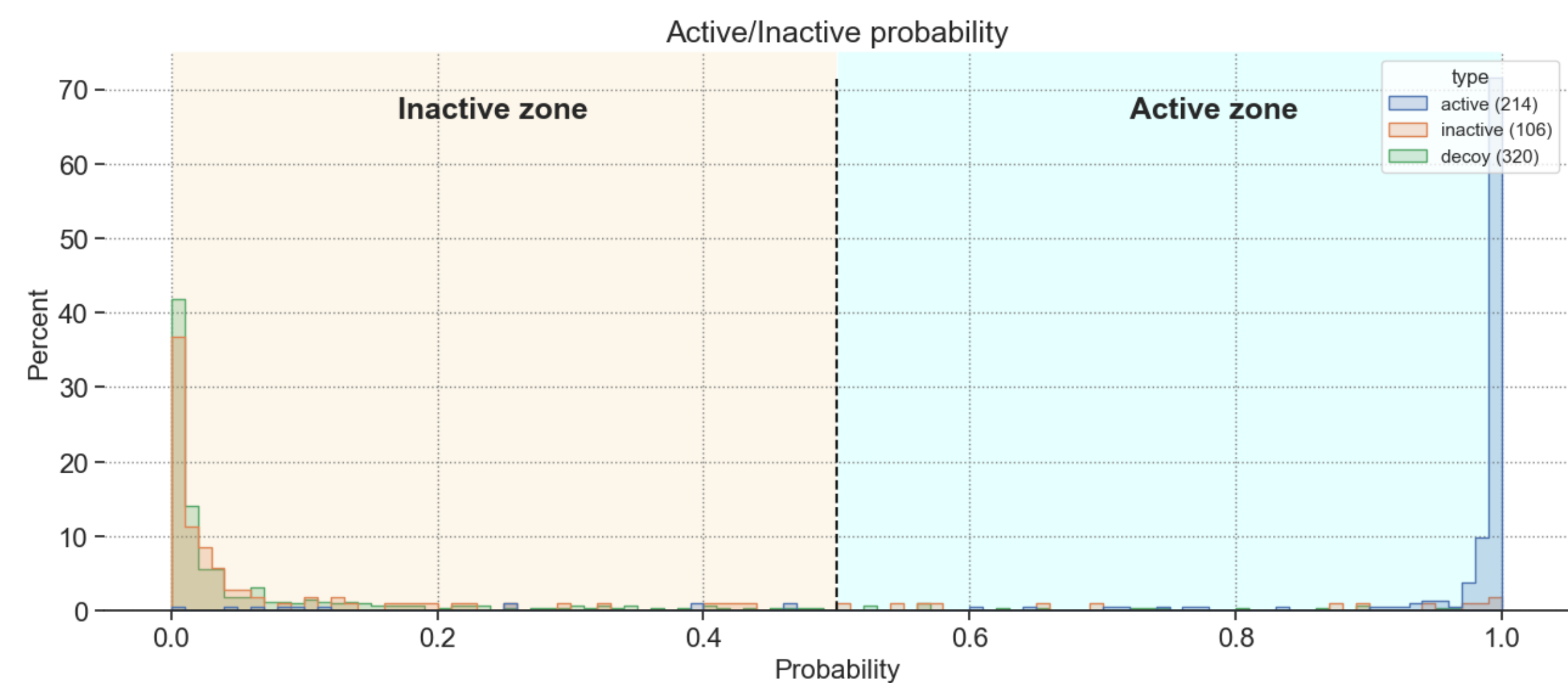
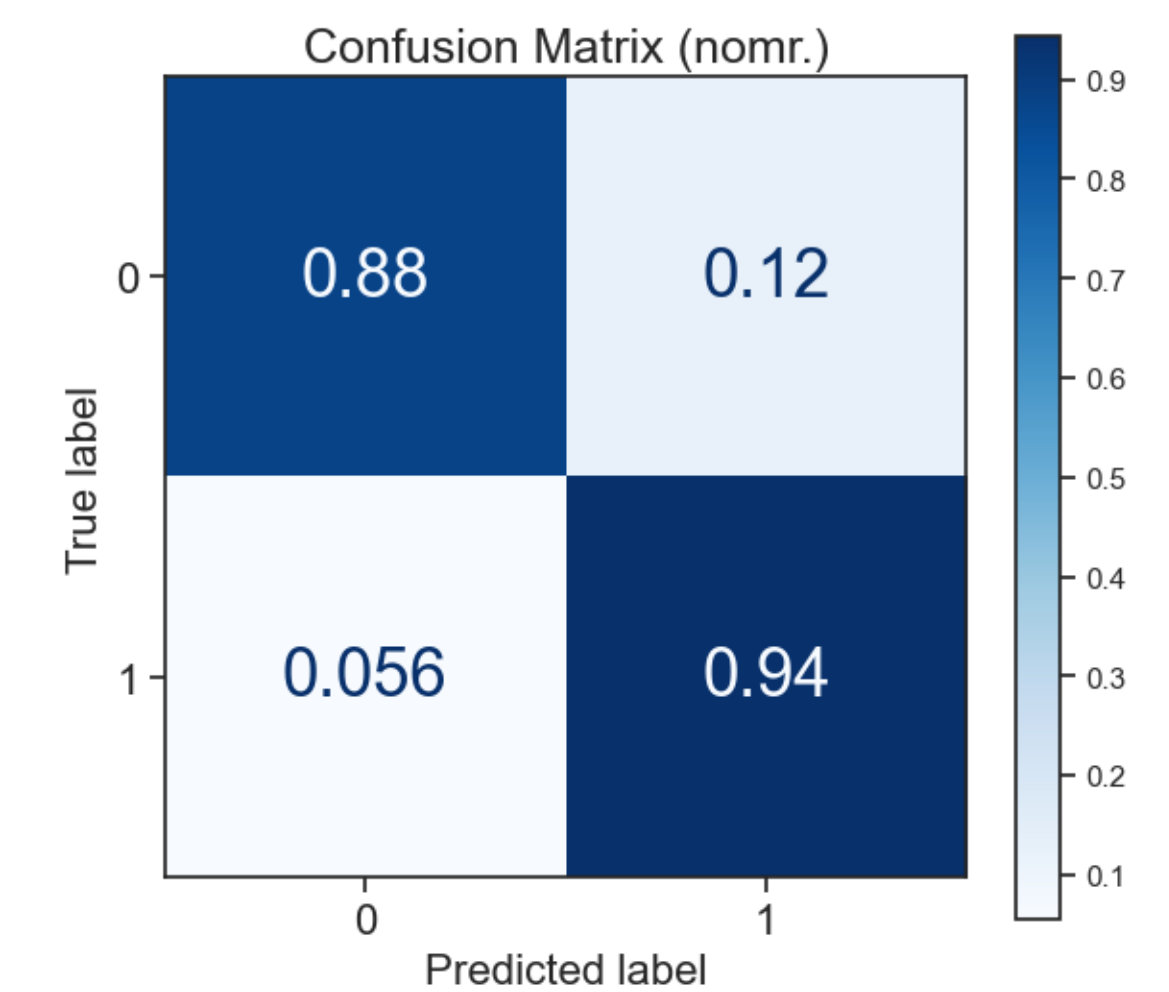
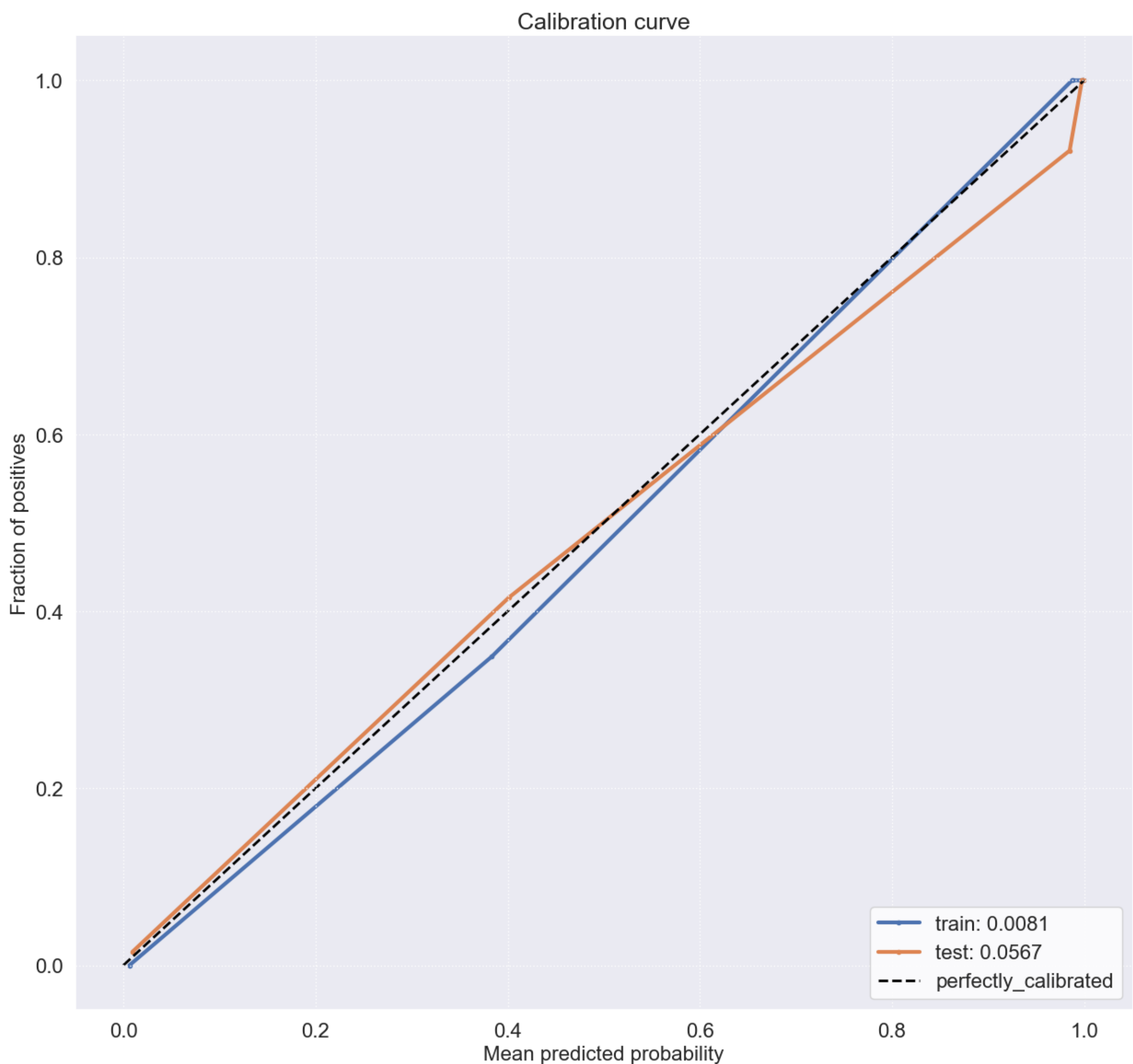
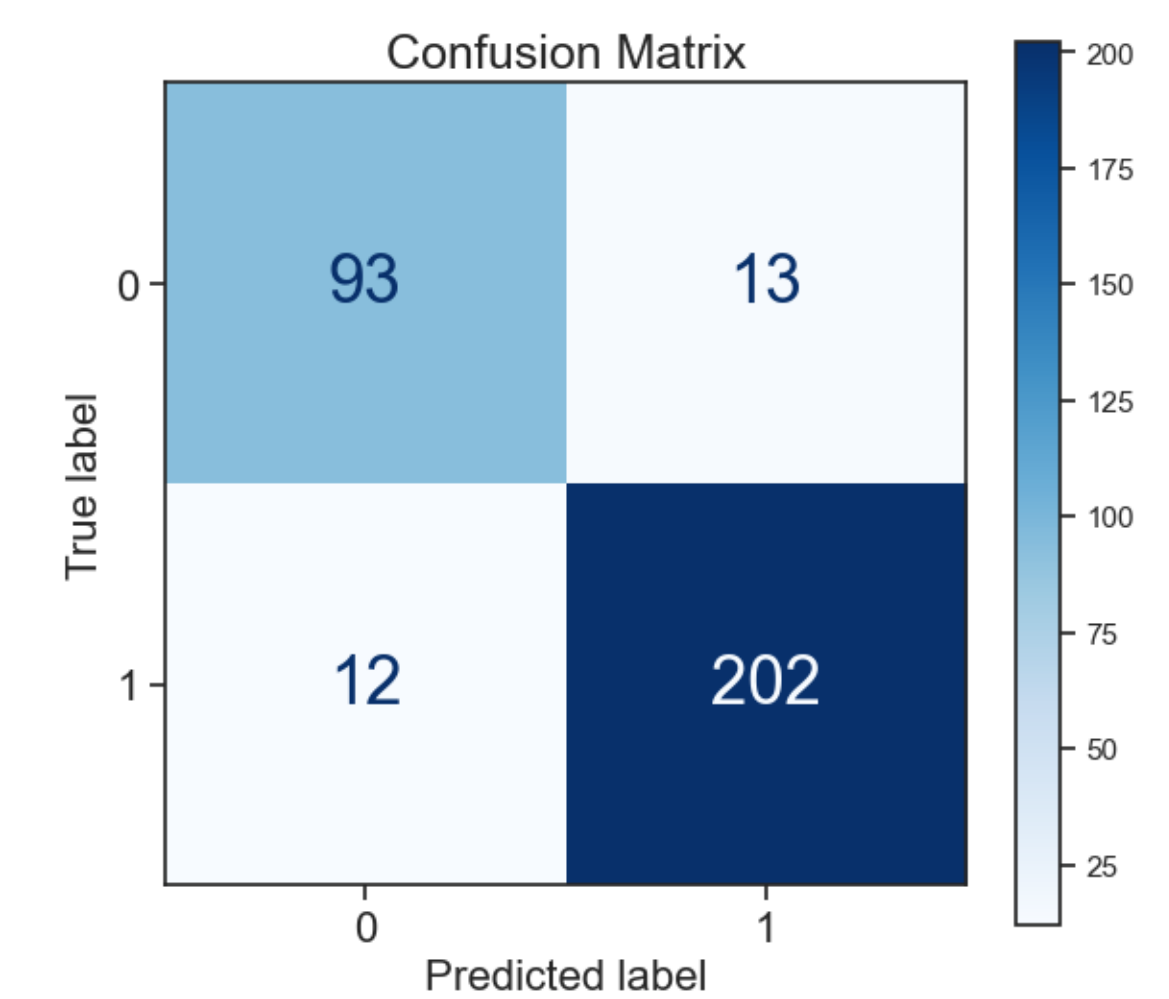


Metric	Train	Test
AUC	0.9967	0.9654
accuracy	0.9765	0.9094
balanced accuracy	0.9716	0.8942
recall_(sens)	0.9859	0.9393
specificity	0.9573	0.8491
precision	0.9791	0.9263
f1_score	0.9764	0.909

Protein: O76074 - metric: f1

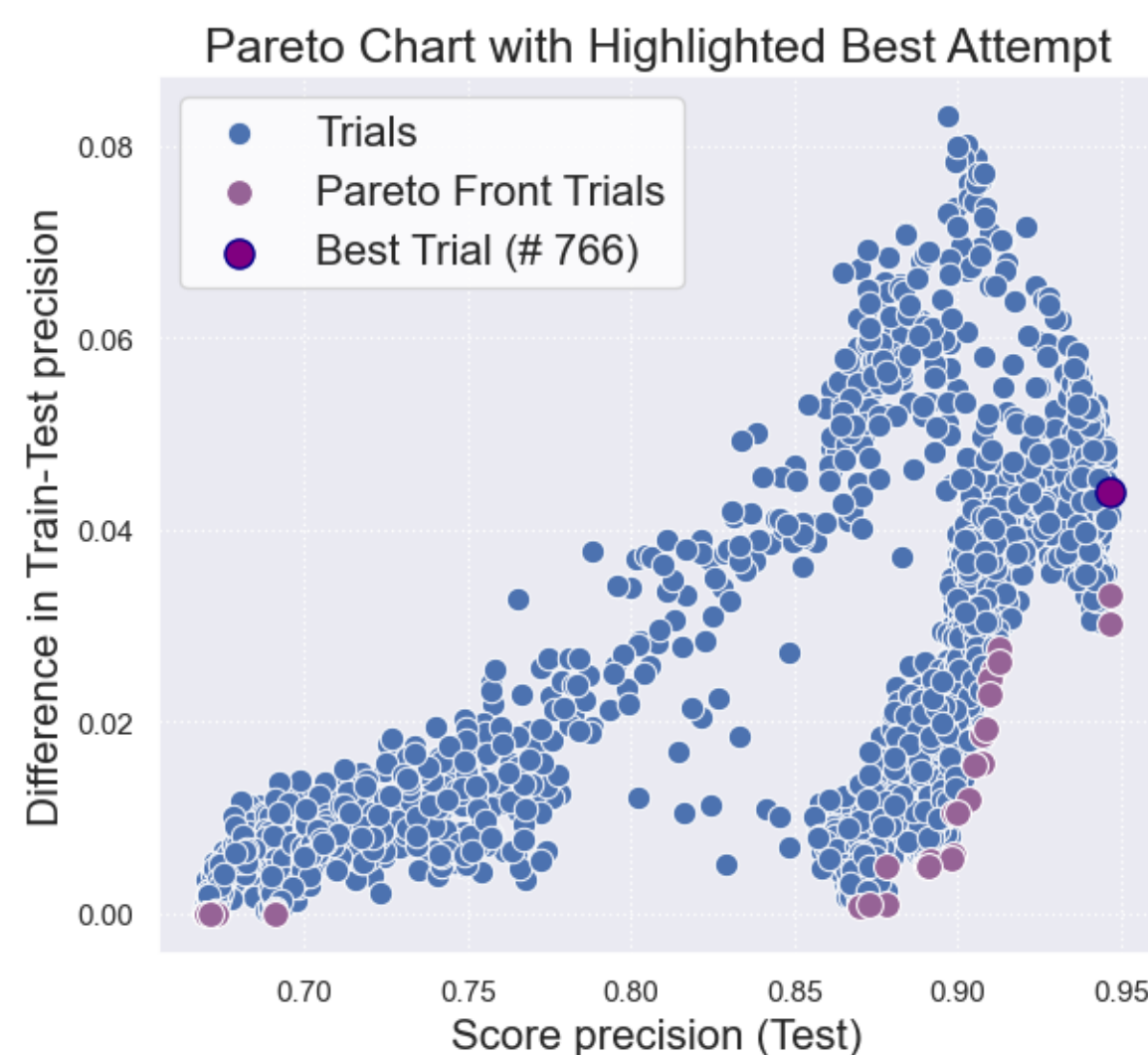
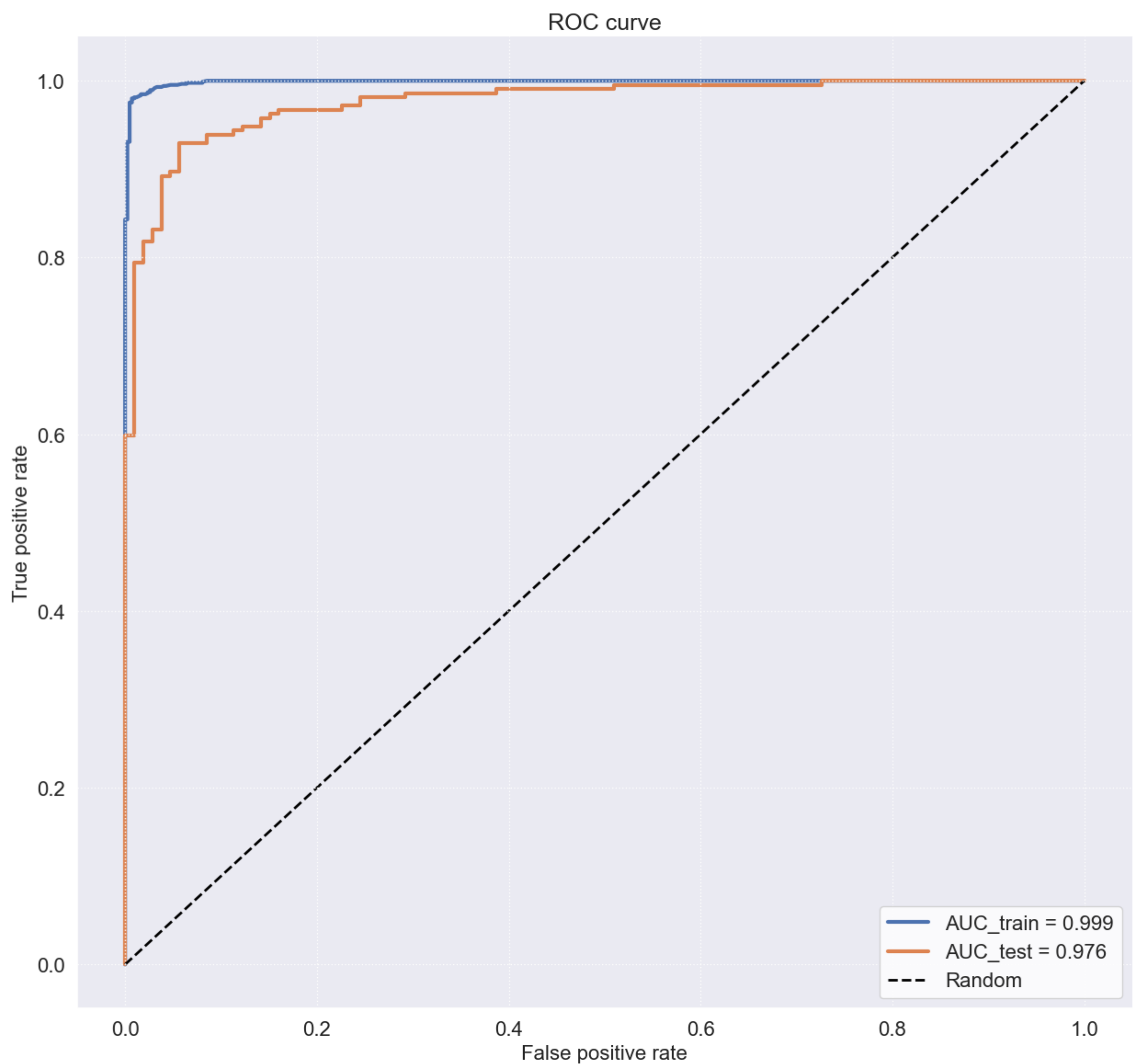
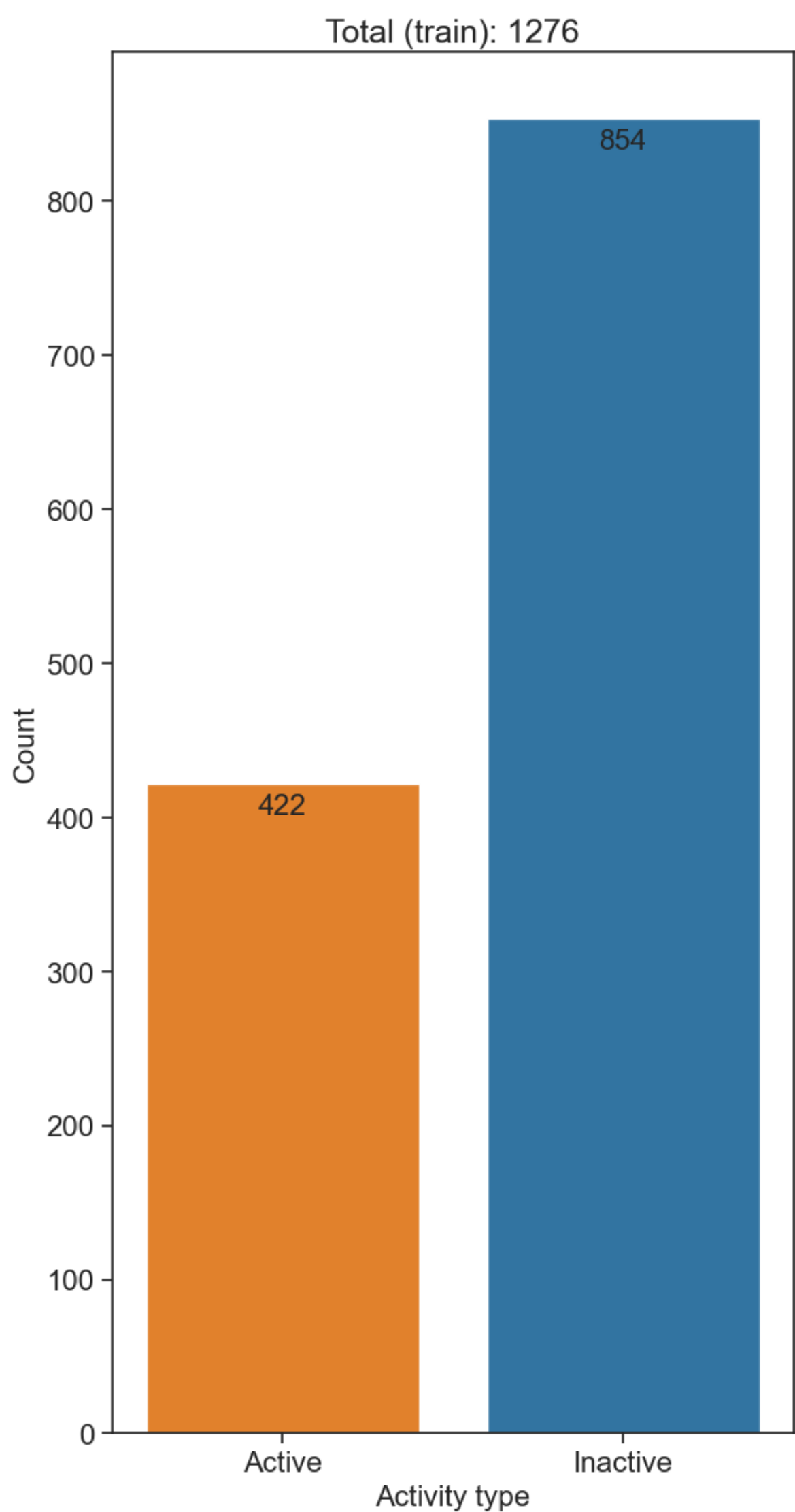


XGBoost Parameters	Value
alpha	4.3534
colsample_bytree	0.7359
gamma	0.0244
lambda	3.4388
learning_rate	0.0878
max_depth	10.0
min_child_weight	2.0
n_estimators	451.0
reg_alpha	0.1454
reg_lambda	0.1742
scale_pos_weight	1.3989
subsample	0.587

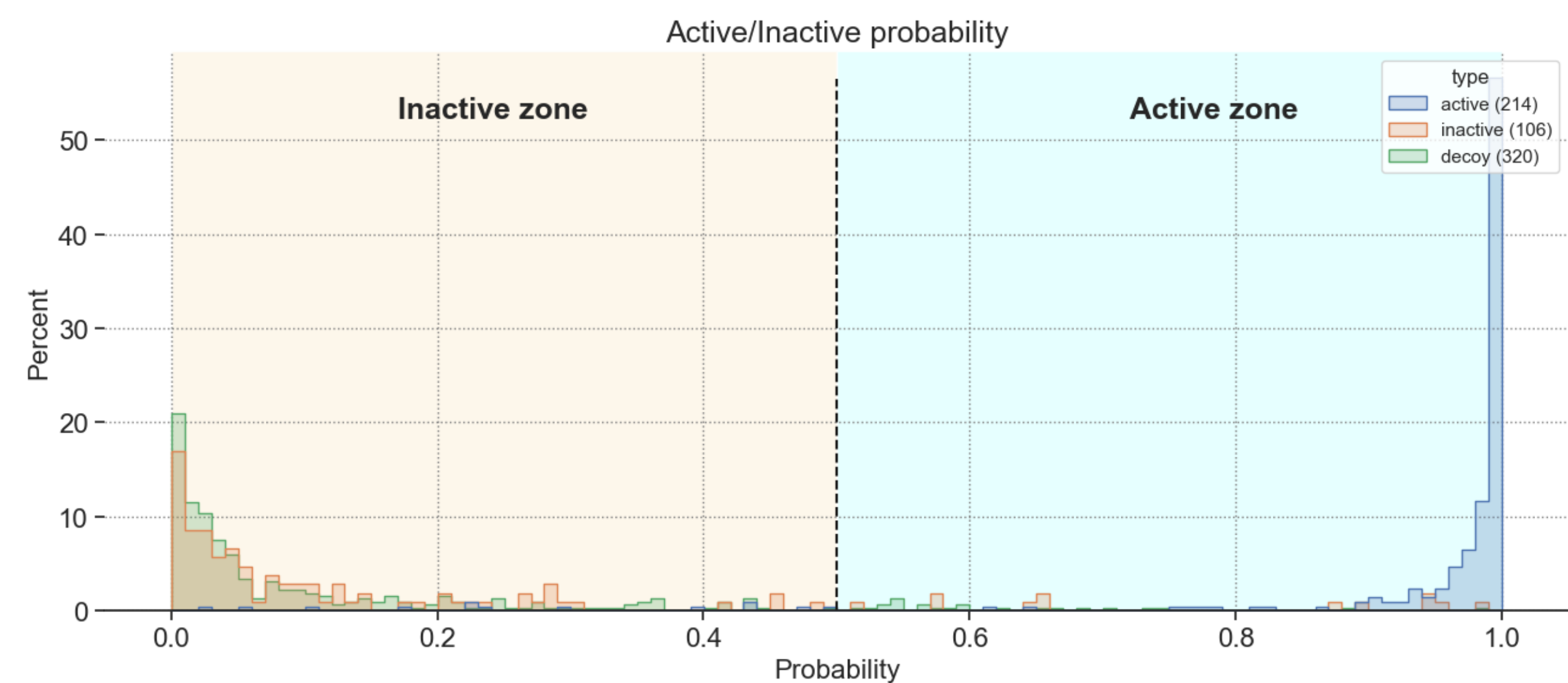
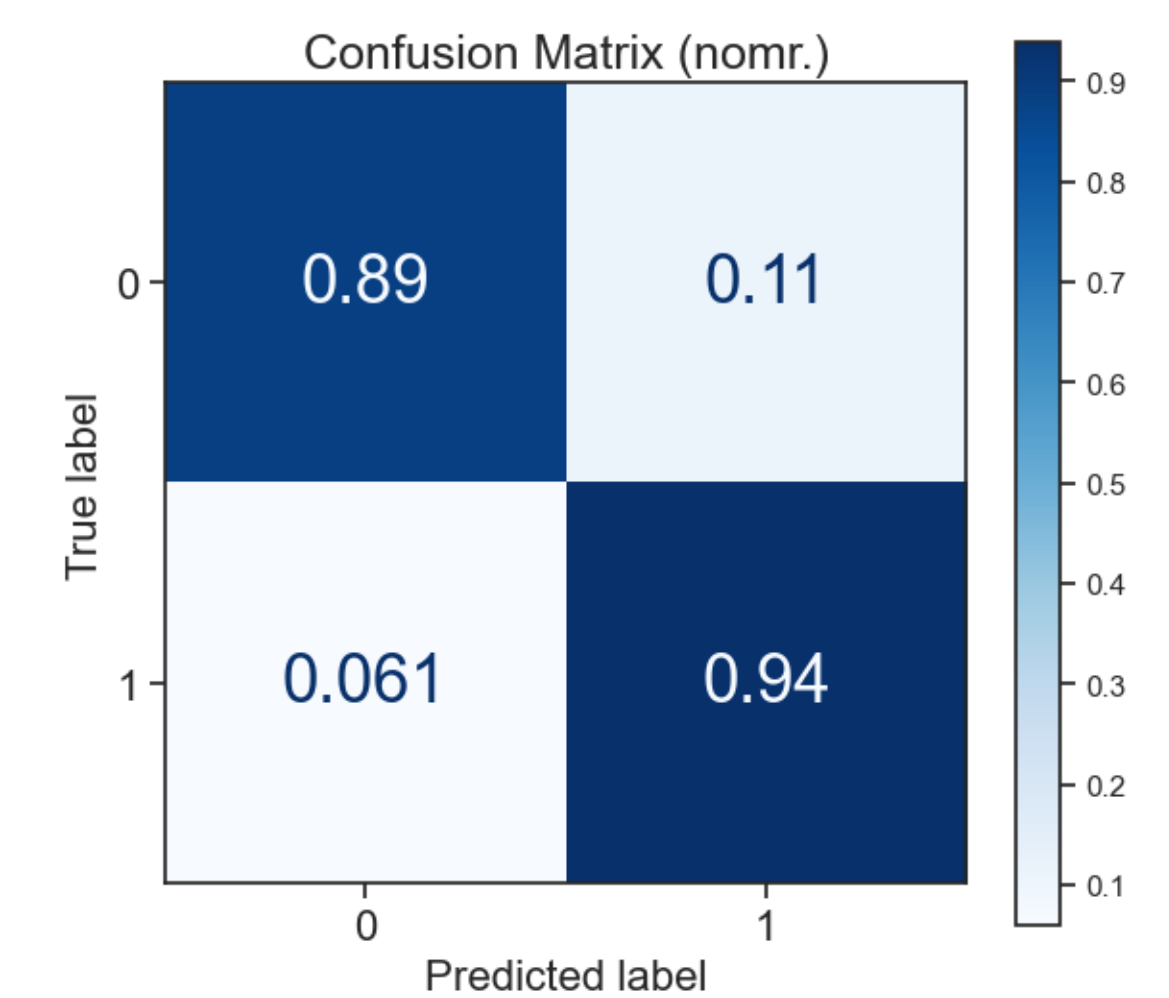
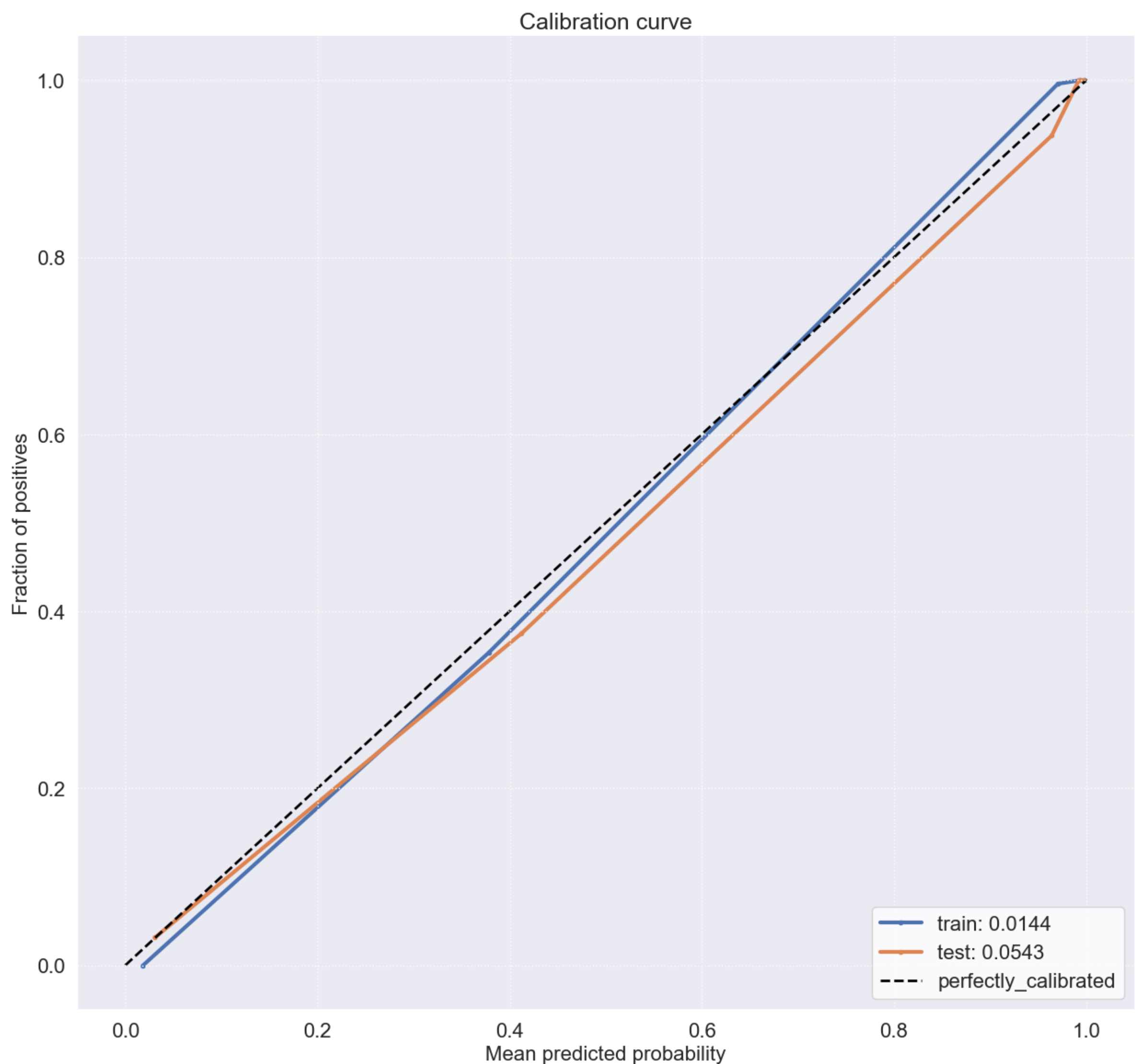
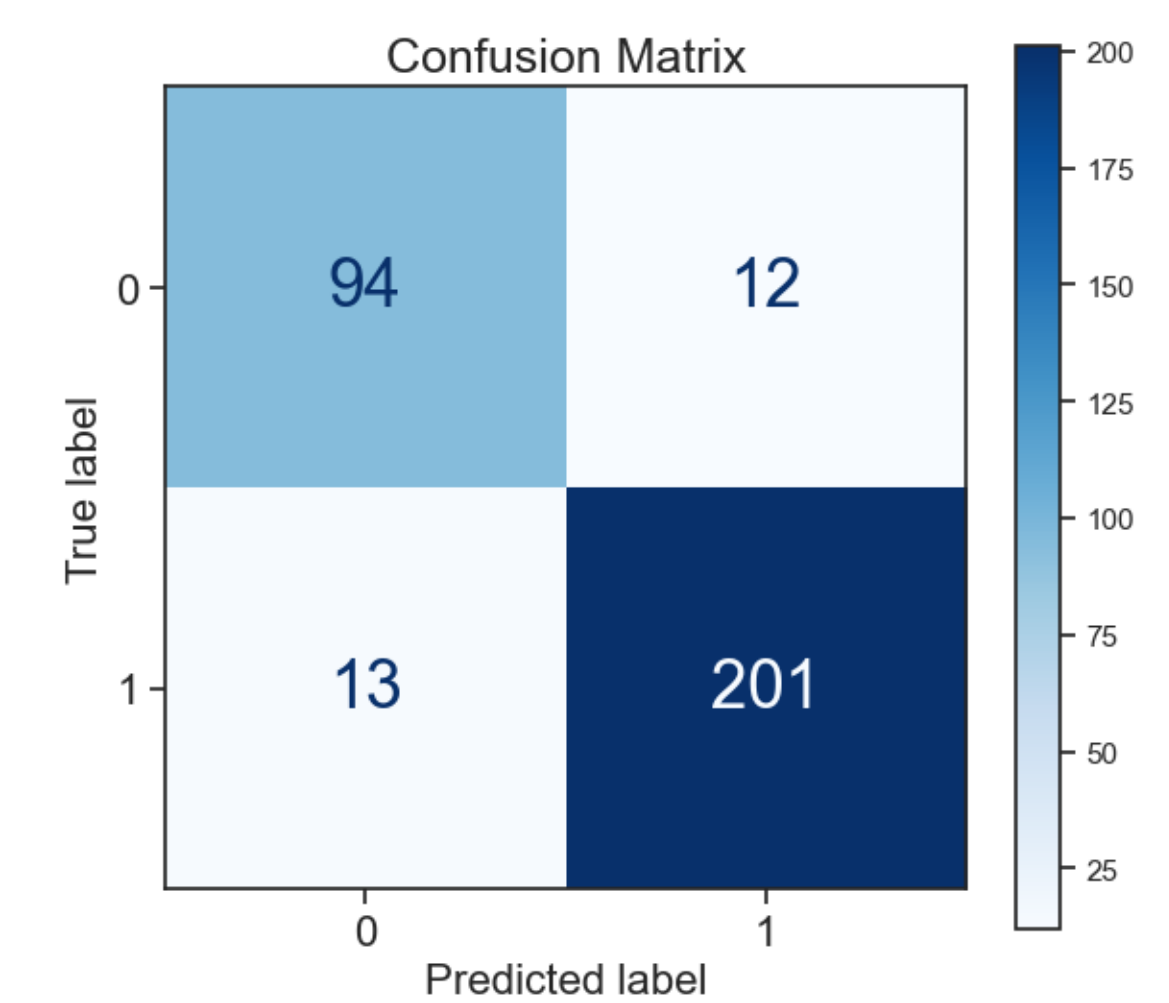


Metric	Train	Test
AUC	0.9997	0.9752
accuracy	0.9898	0.9219
balanced accuracy	0.9858	0.9106
recall_(sens)	0.9977	0.9439
specificity	0.9739	0.8774
precision	0.9873	0.9395
f1_score	0.9898	0.9218

Protein: O76074 - metric: precision

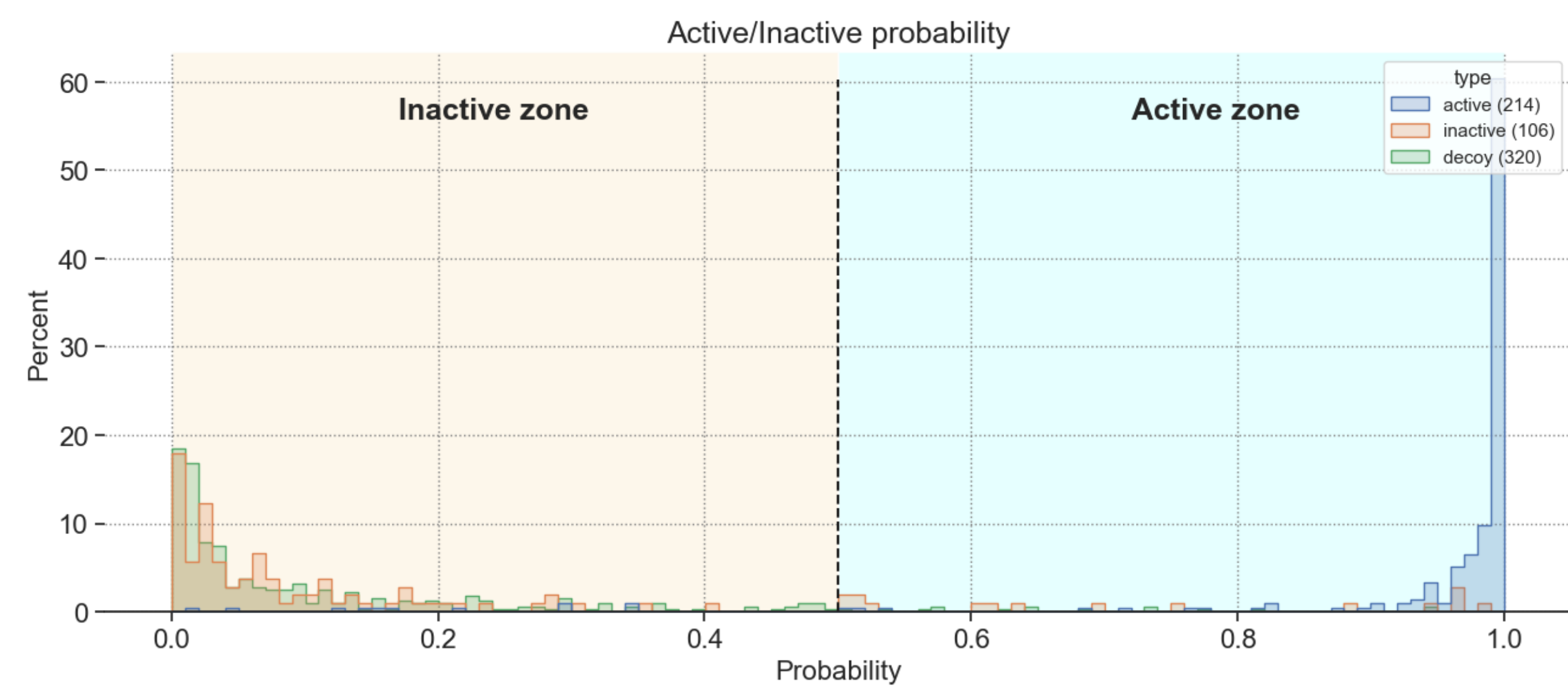
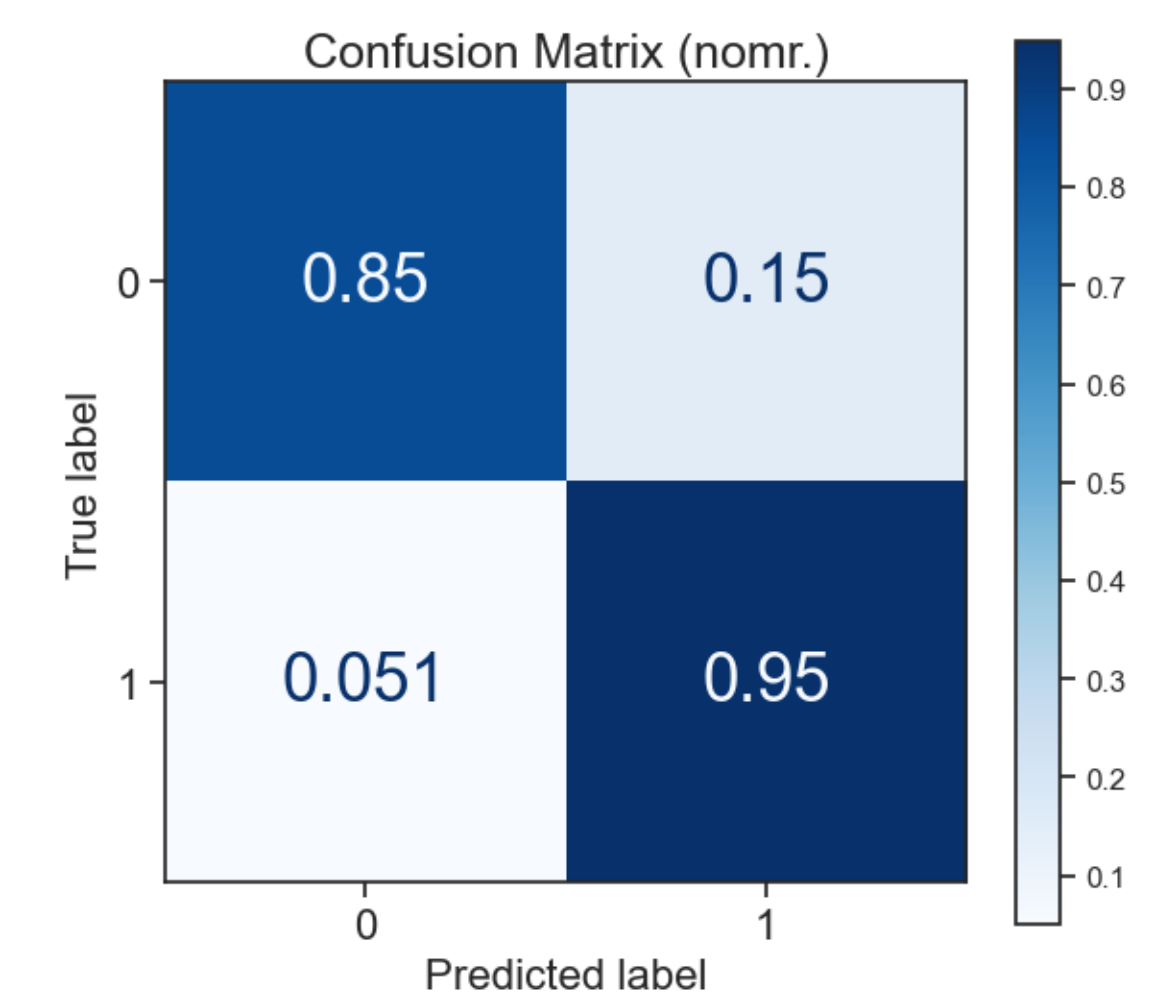
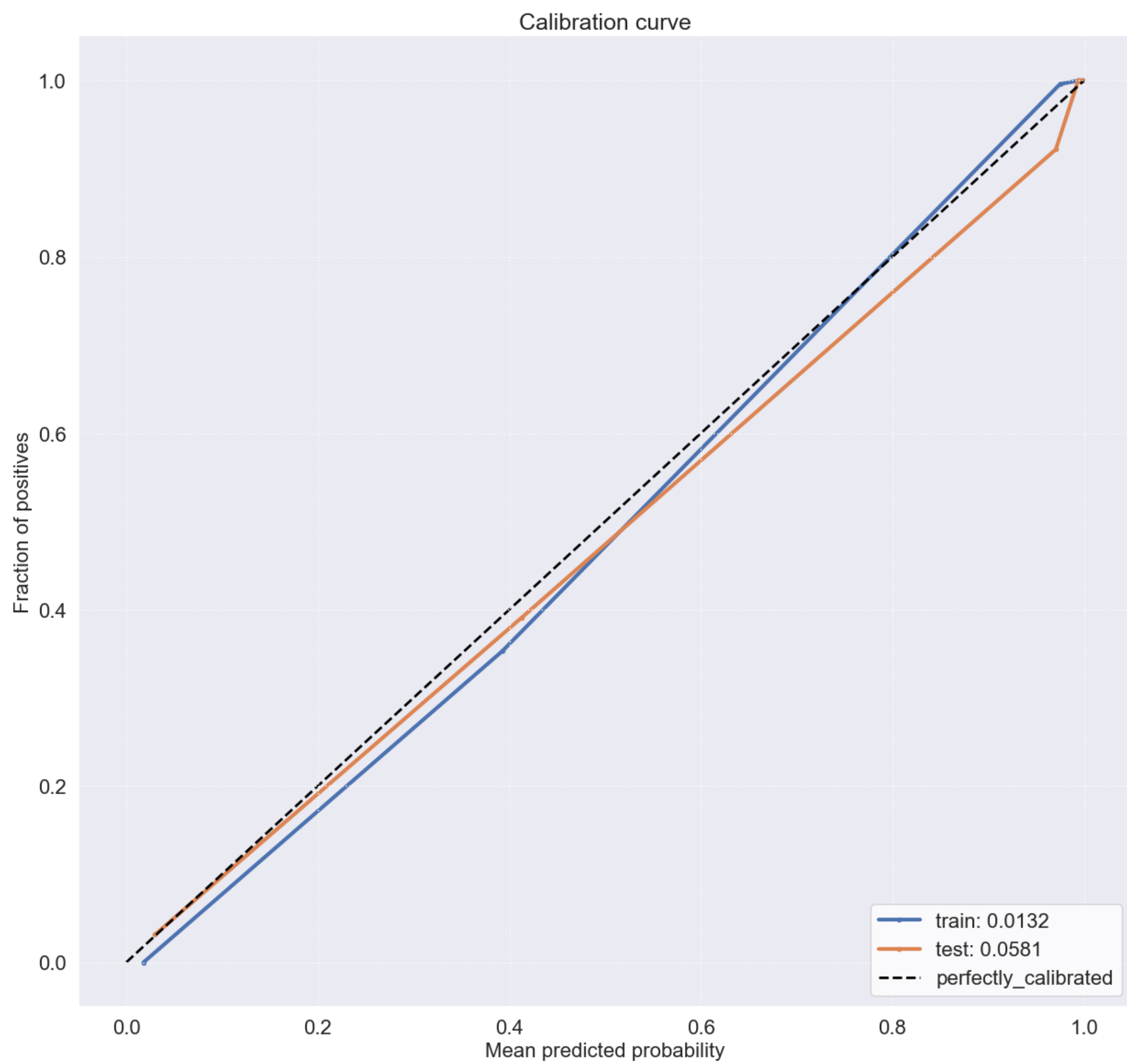
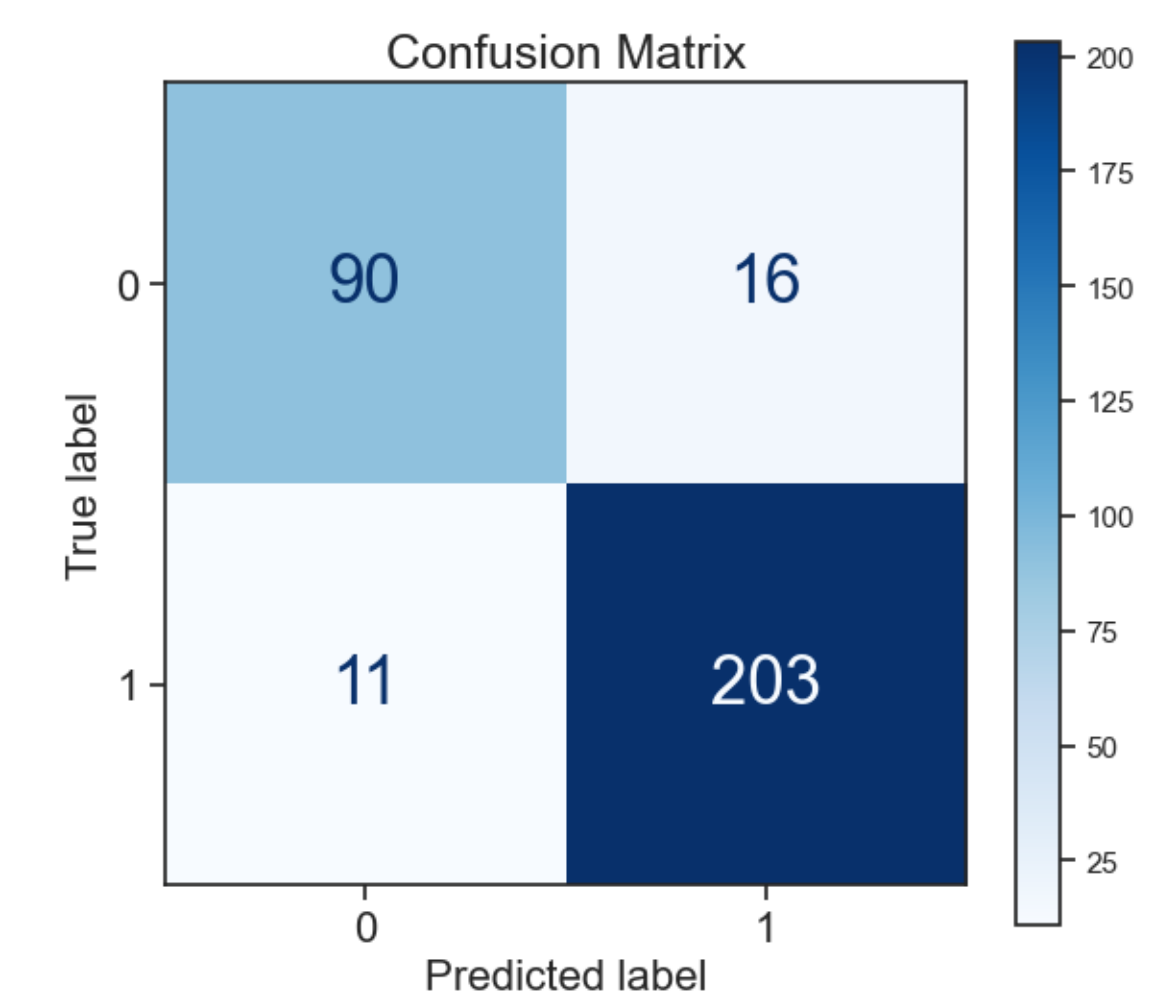
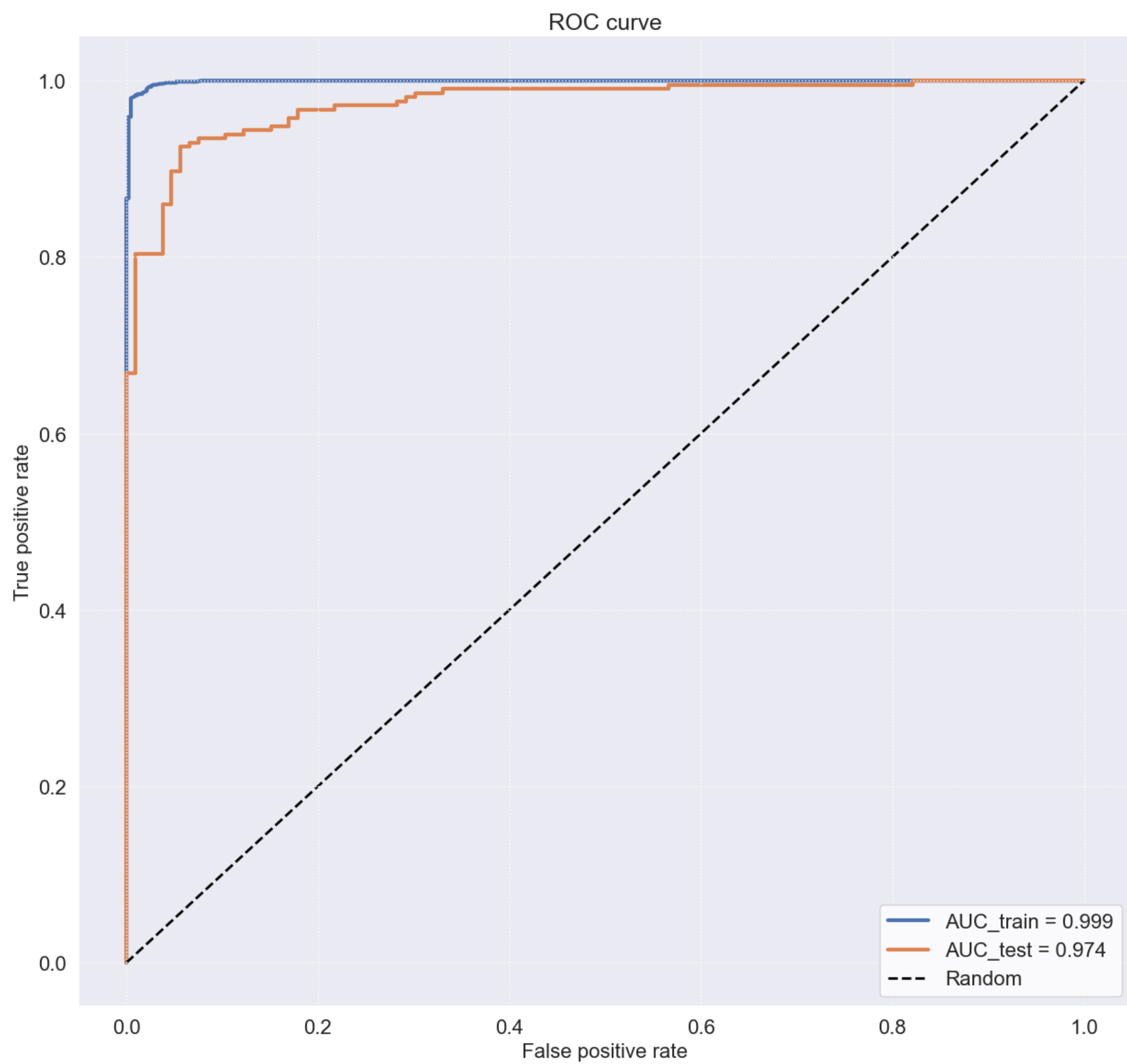
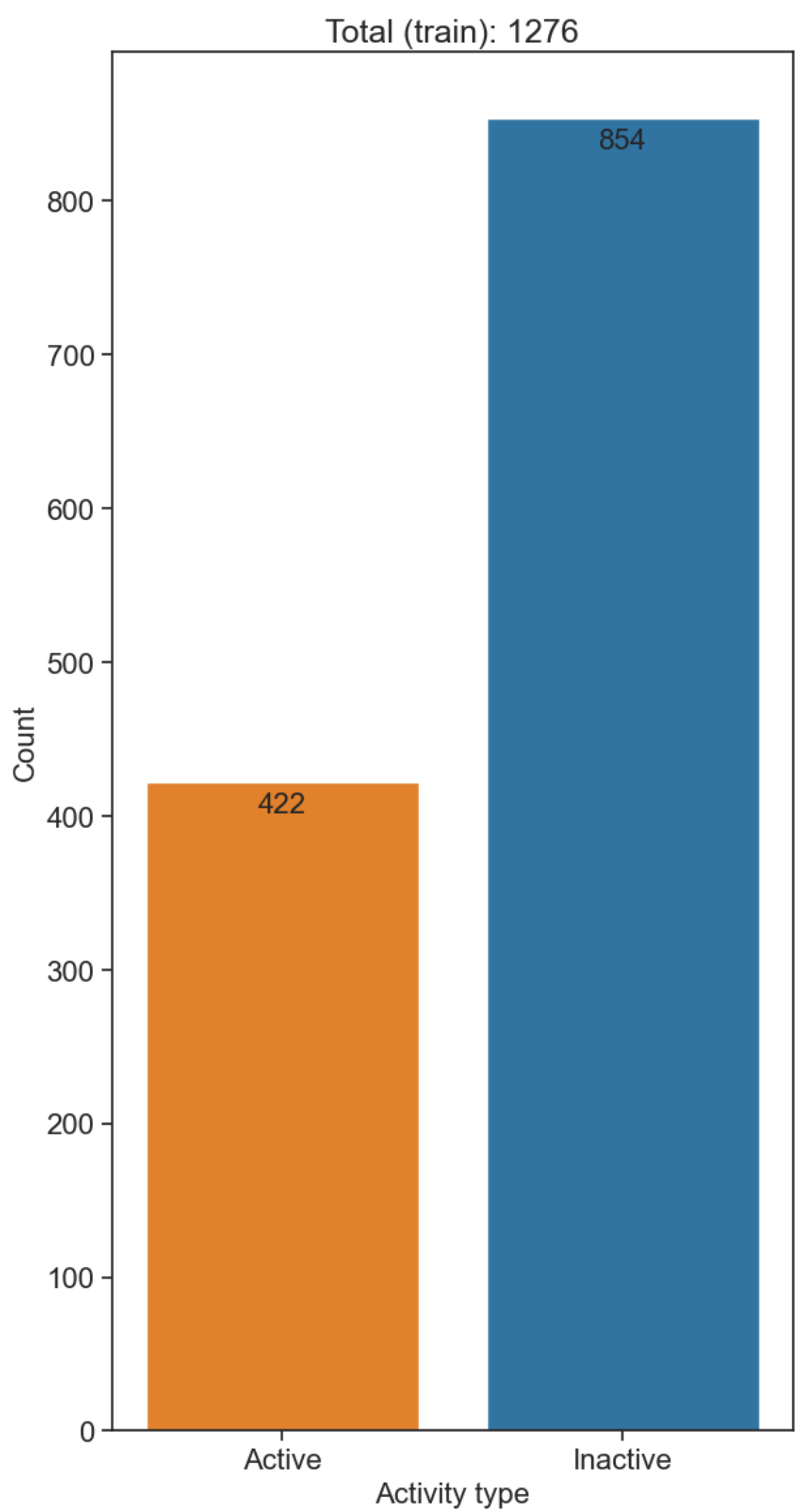


XGBoost Parameters	Value
alpha	0.8118
colsample_bytree	0.5977
gamma	0.1306
lambda	4.0969
learning_rate	0.1234
max_depth	10.0
min_child_weight	2.0
n_estimators	166.0
reg_alpha	0.5474
reg_lambda	0.5239
scale_pos_weight	1.0925
subsample	0.6609



Metric	Train	Test
AUC	0.9988	0.976
accuracy	0.9835	0.9219
balanced accuracy	0.9829	0.913
recall_(sens)	0.9848	0.9393
specificity	0.981	0.8868
precision	0.9906	0.9437
f1_score	0.9836	0.922

Protein: O76074 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9992	0.9744
accuracy	0.9867	0.9156
balanced accuracy	0.9847	0.8988
recall_(sens)	0.9906	0.9486
specificity	0.9787	0.8491
precision	0.9895	0.9269
f1_score	0.9867	0.9151