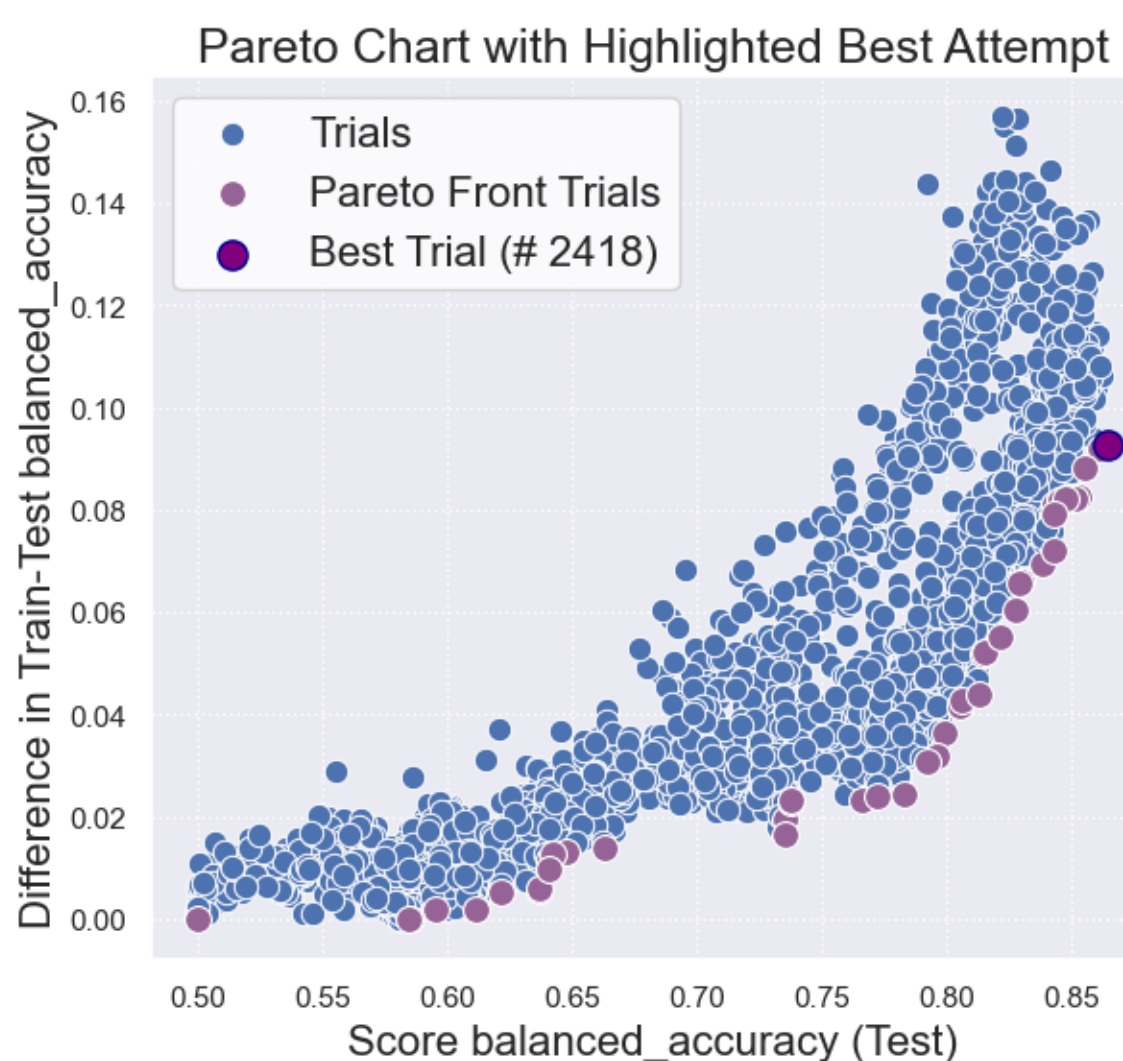
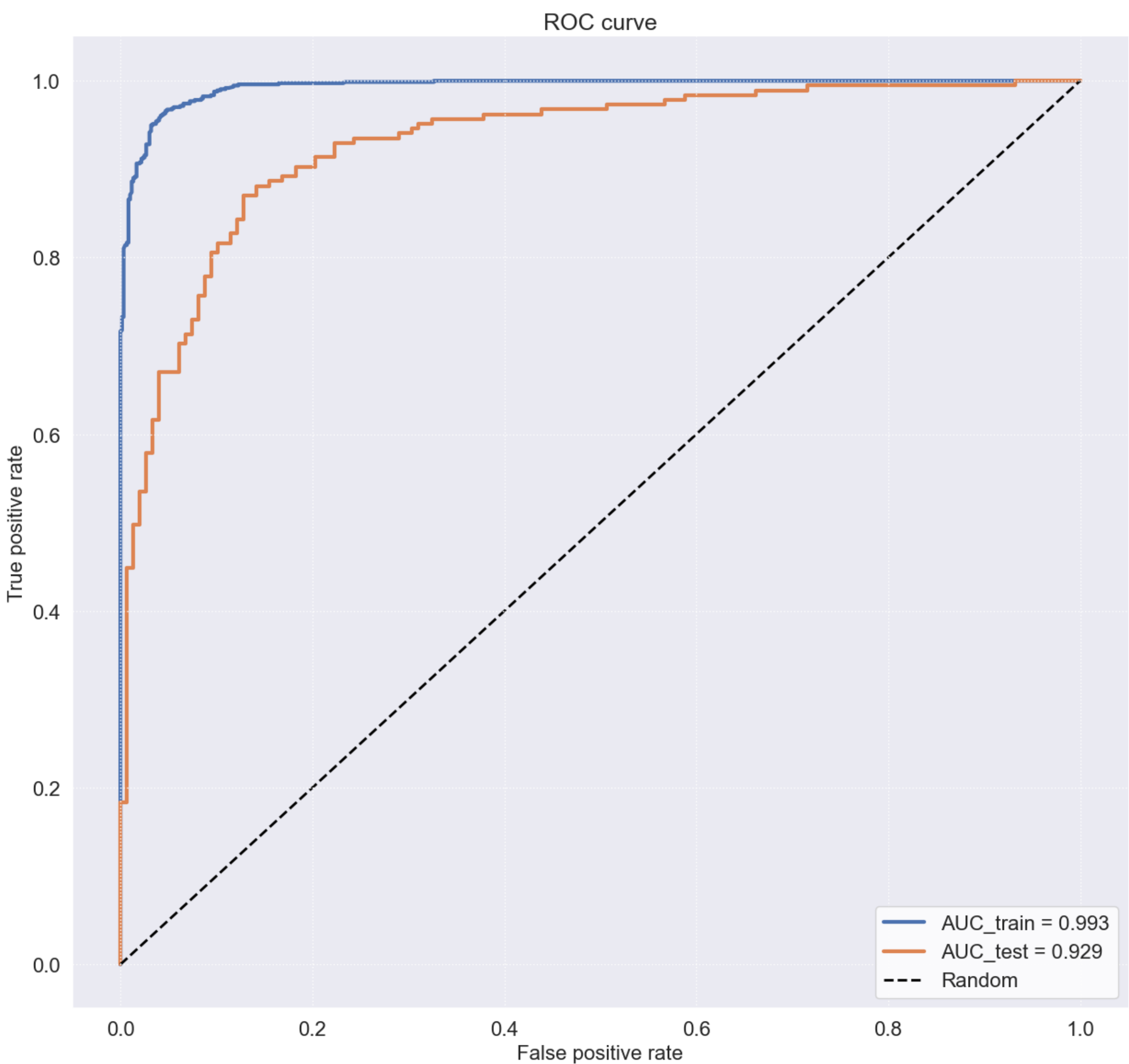
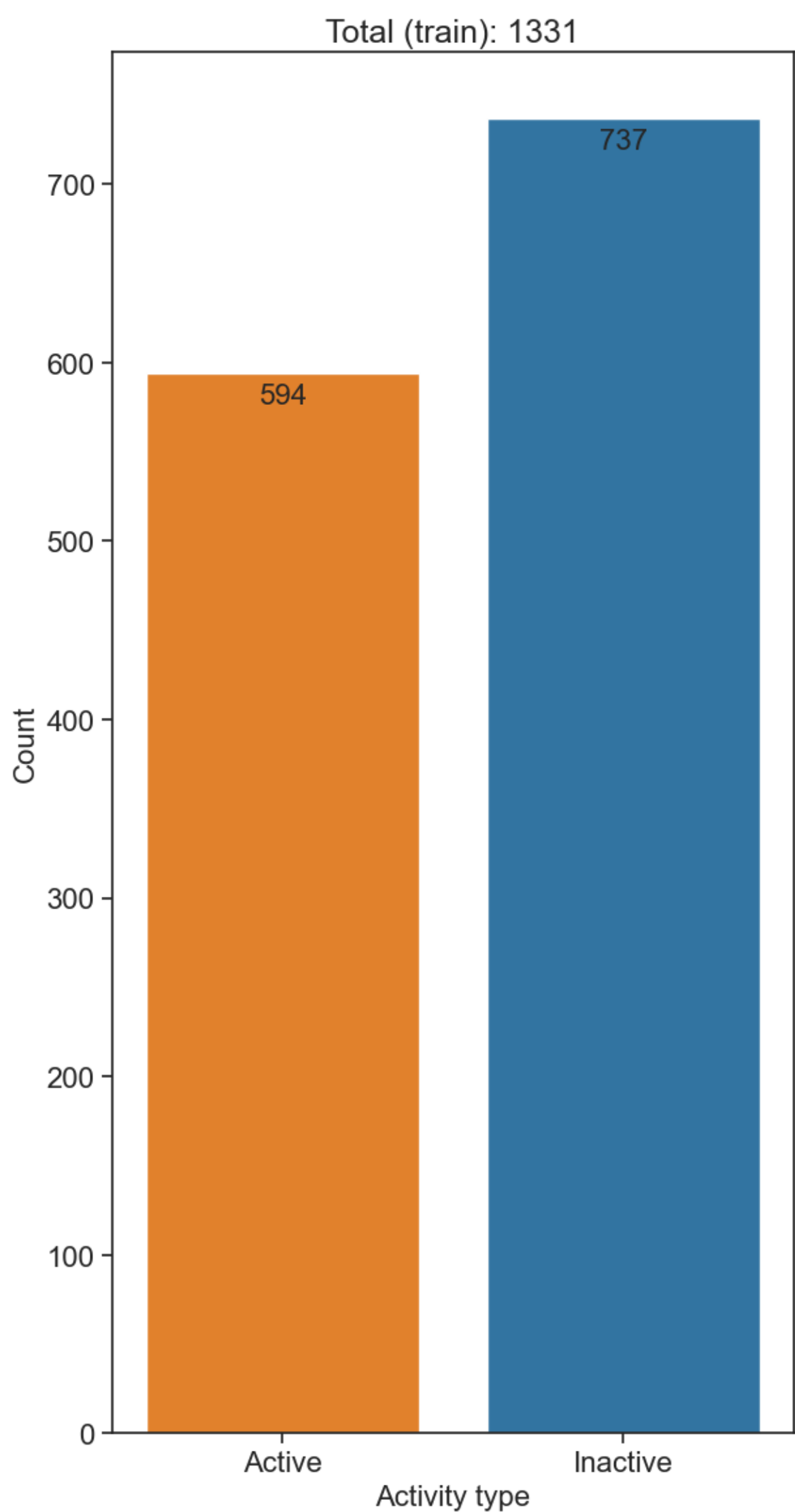
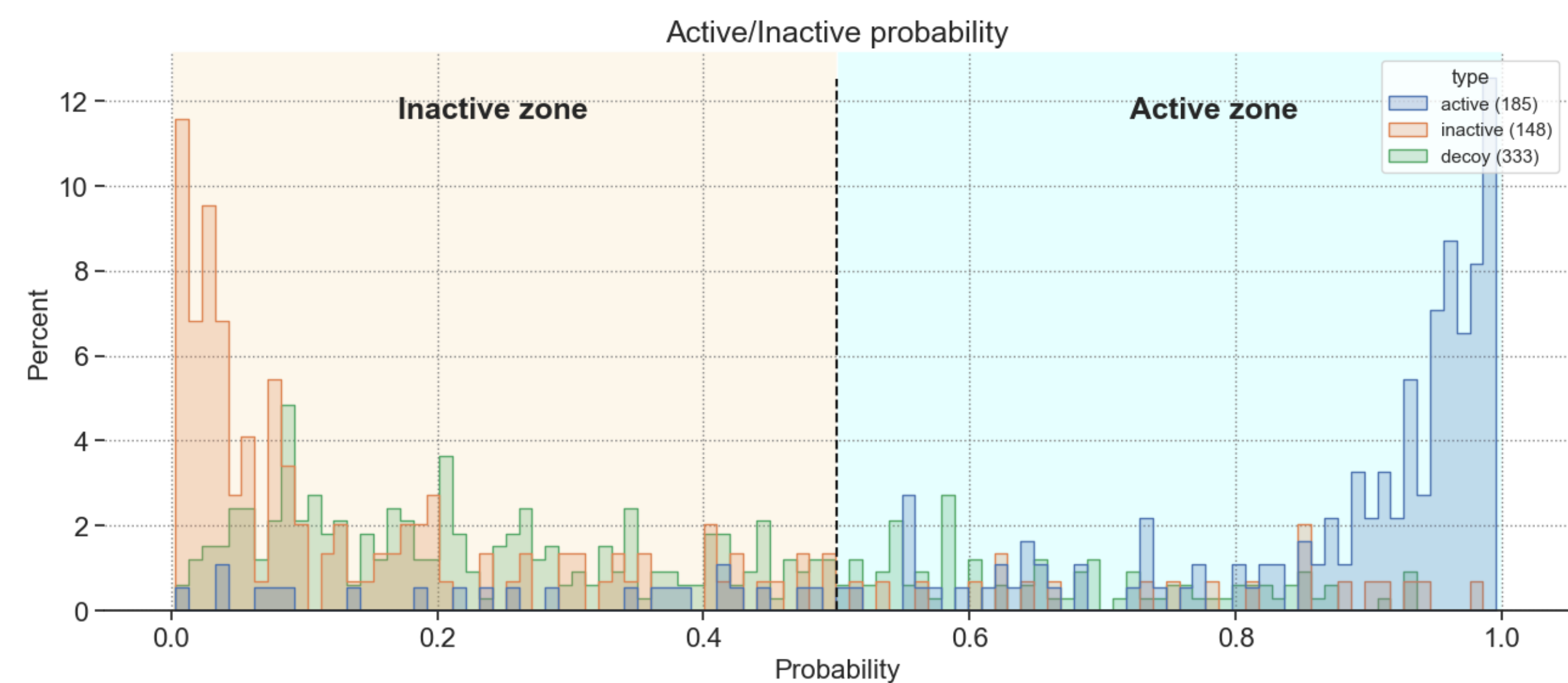
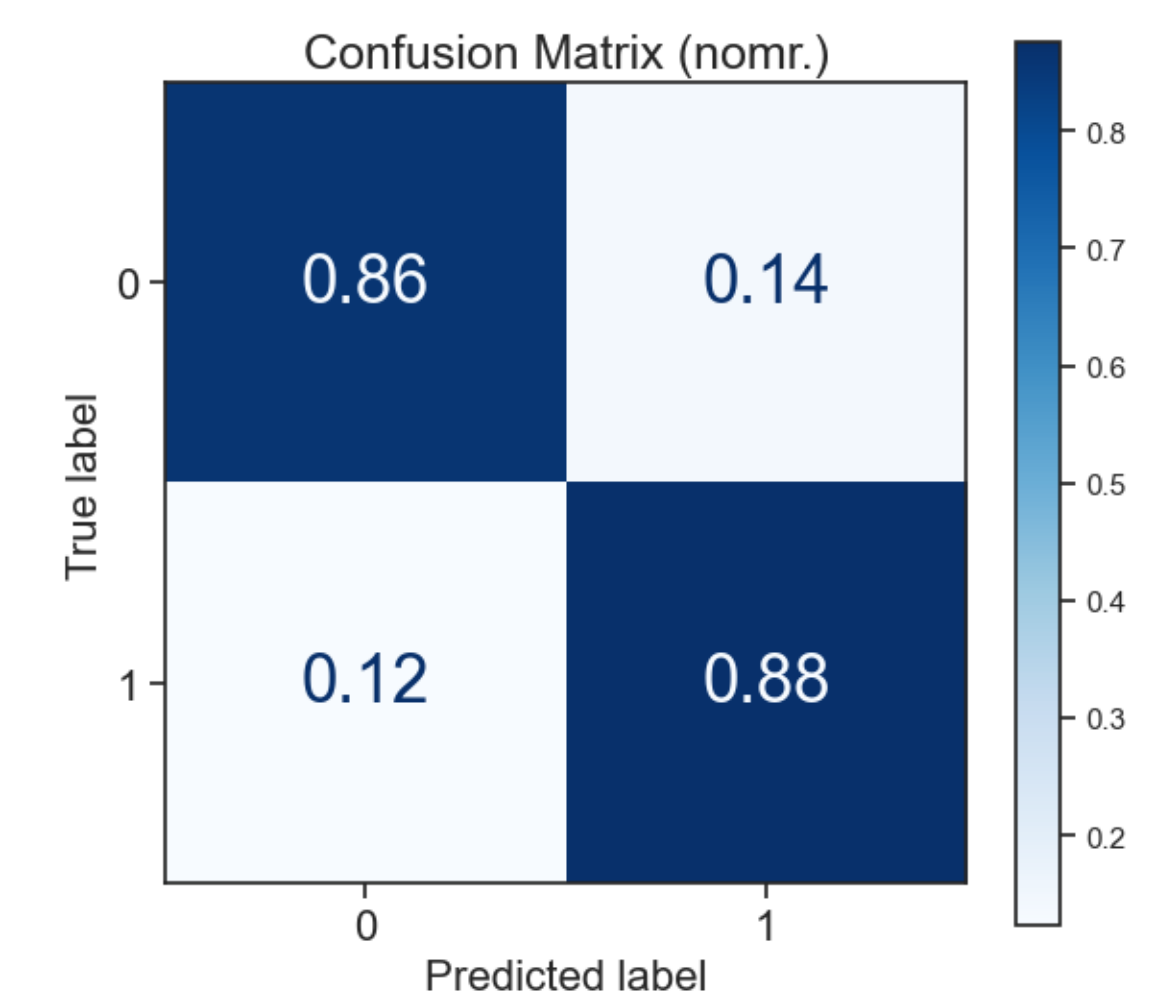
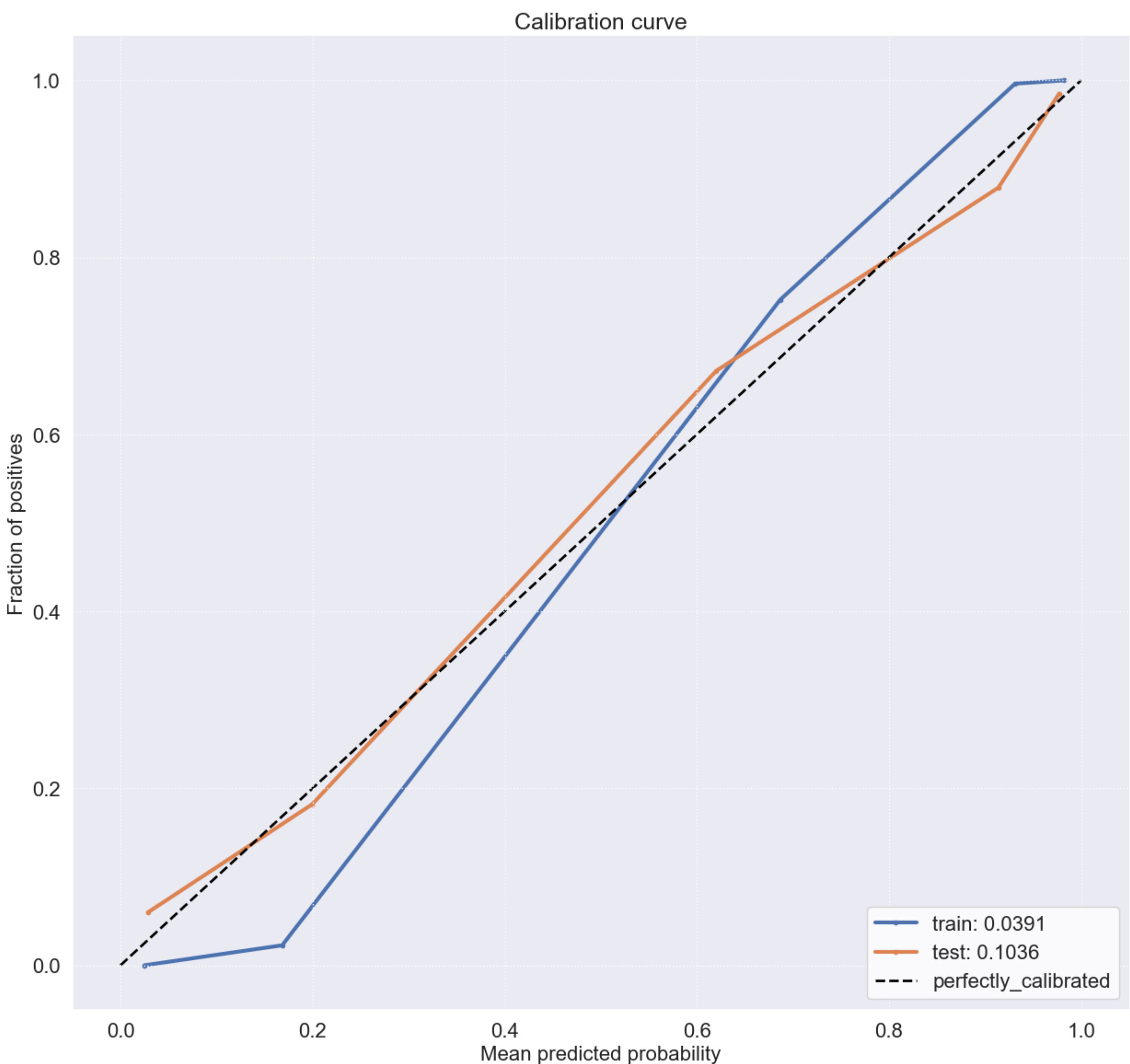
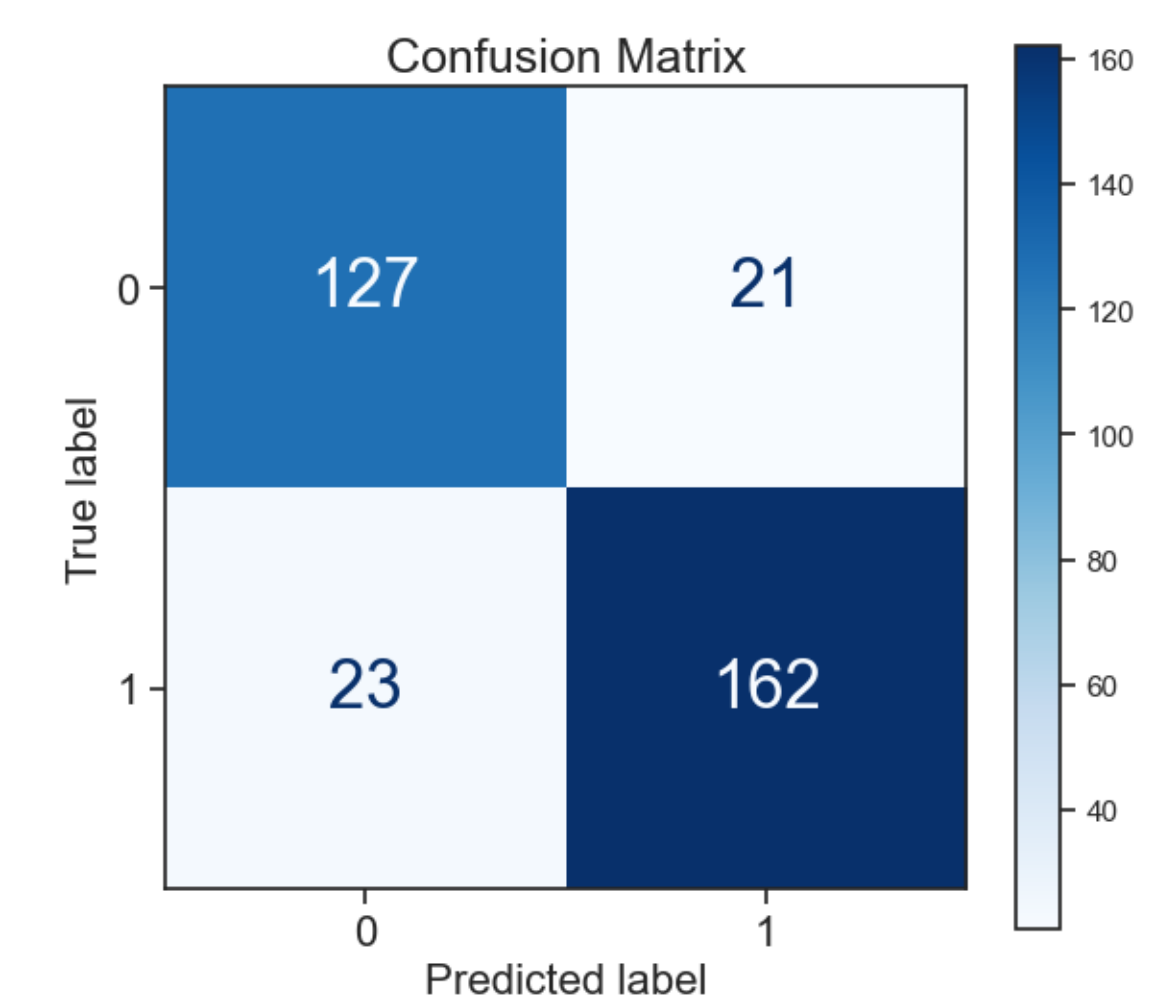


Protein: P11229 - metric: balanced_accuracy

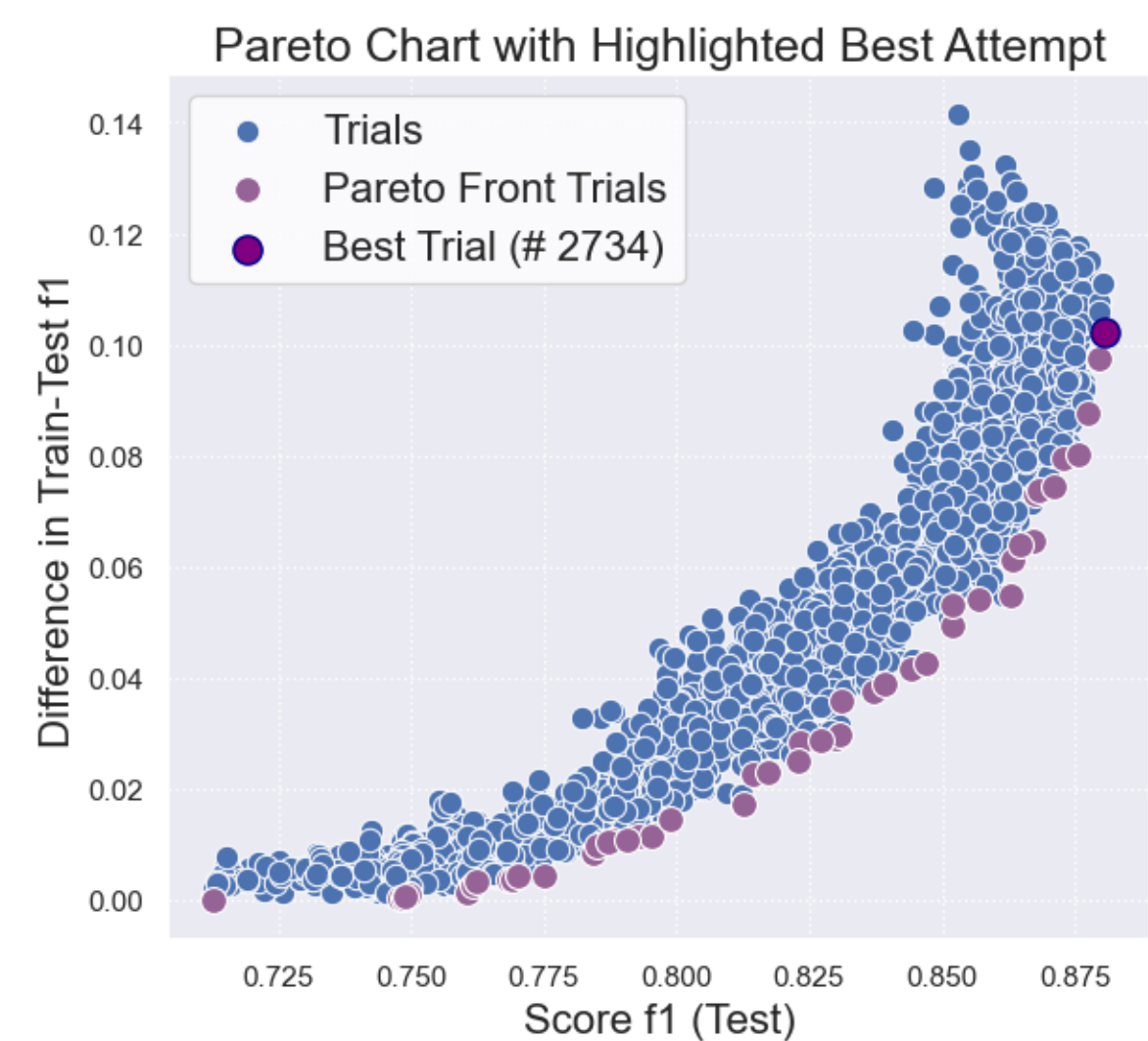
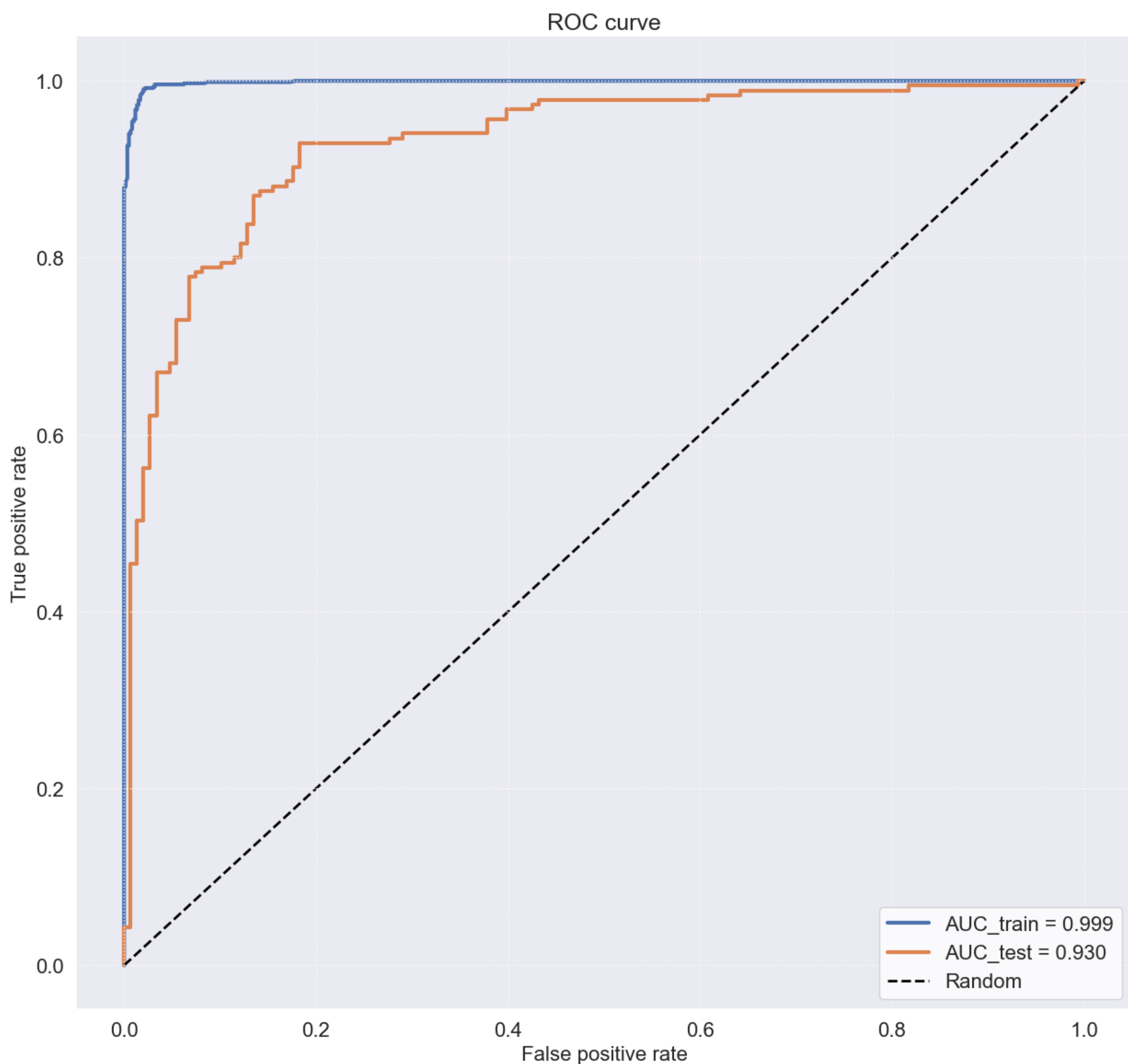
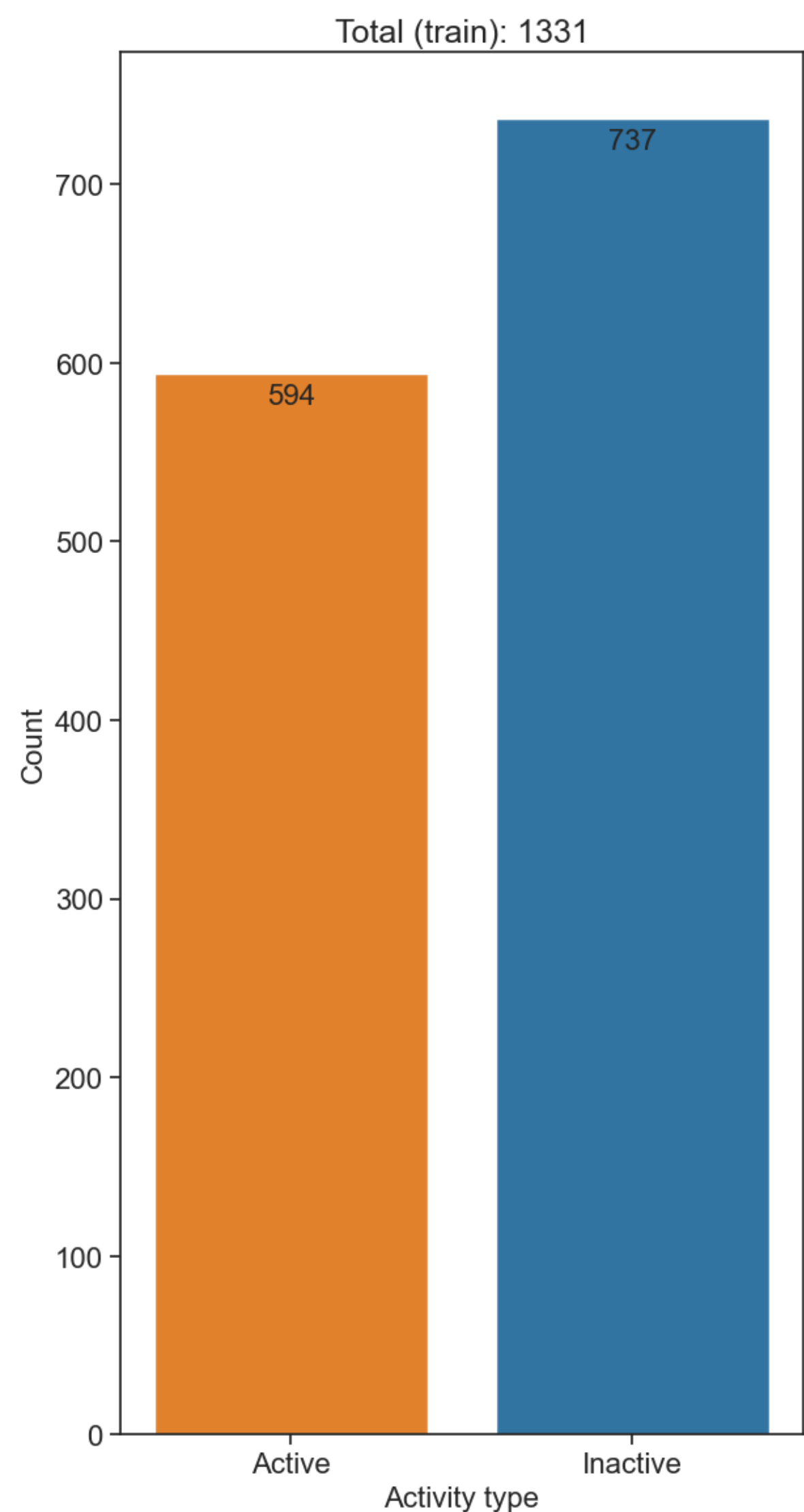


XGBoost Parameters	Value
alpha	1.092
colsample_bytree	0.6135
gamma	0.2494
lambda	3.9321
learning_rate	0.0881
max_depth	10.0
min_child_weight	2.0
n_estimators	141.0
reg_alpha	0.0437
reg_lambda	0.5096
scale_pos_weight	1.1157
subsample	0.5673

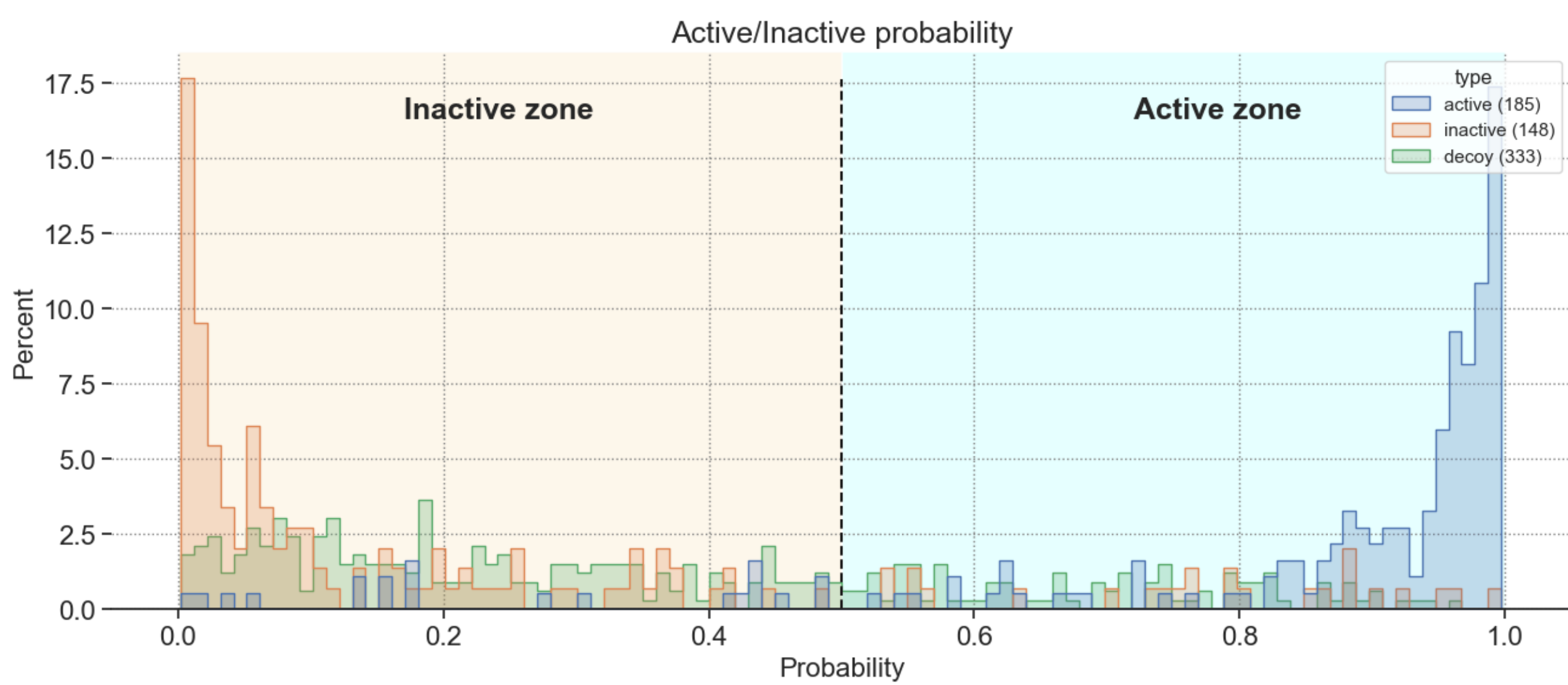
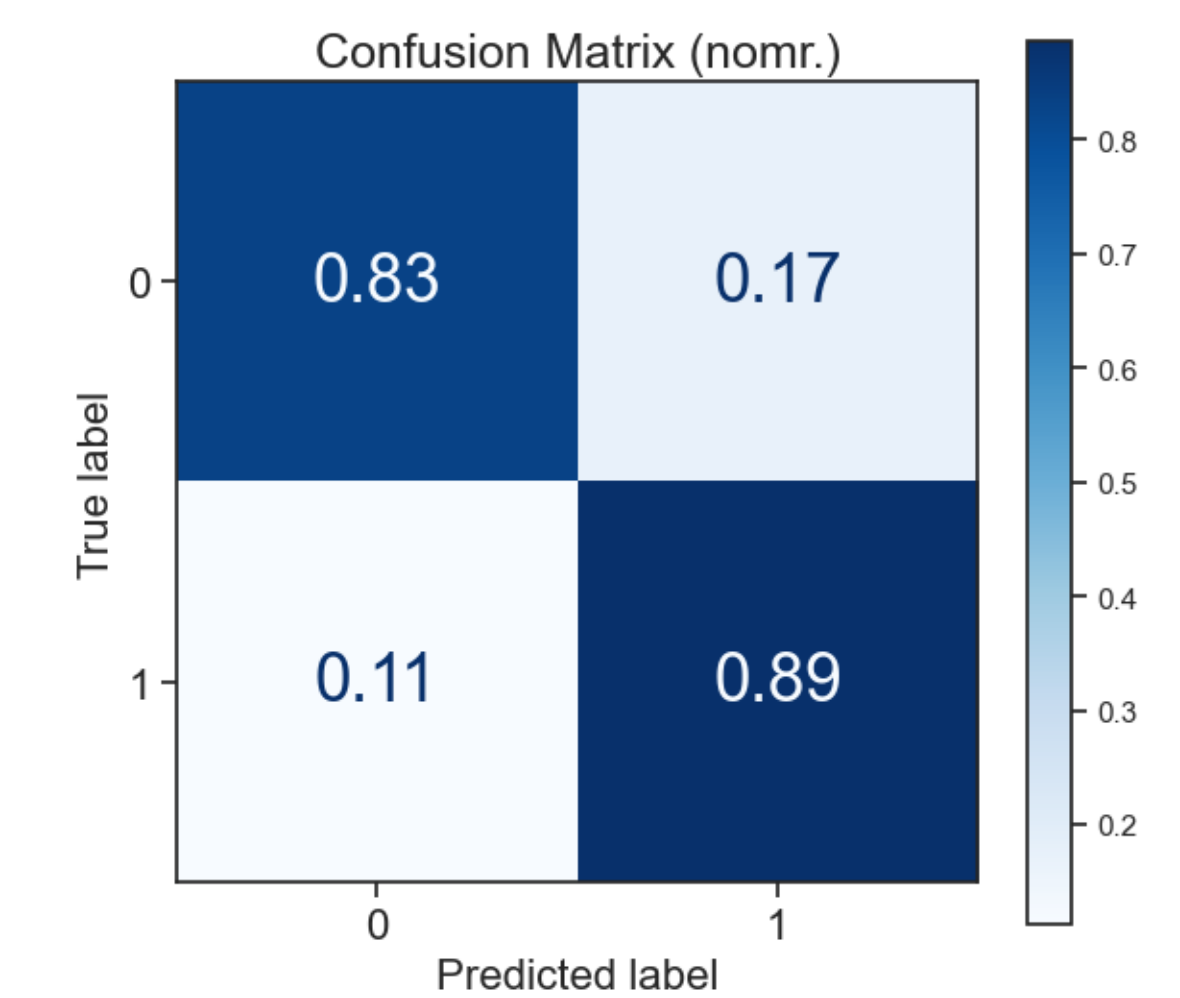
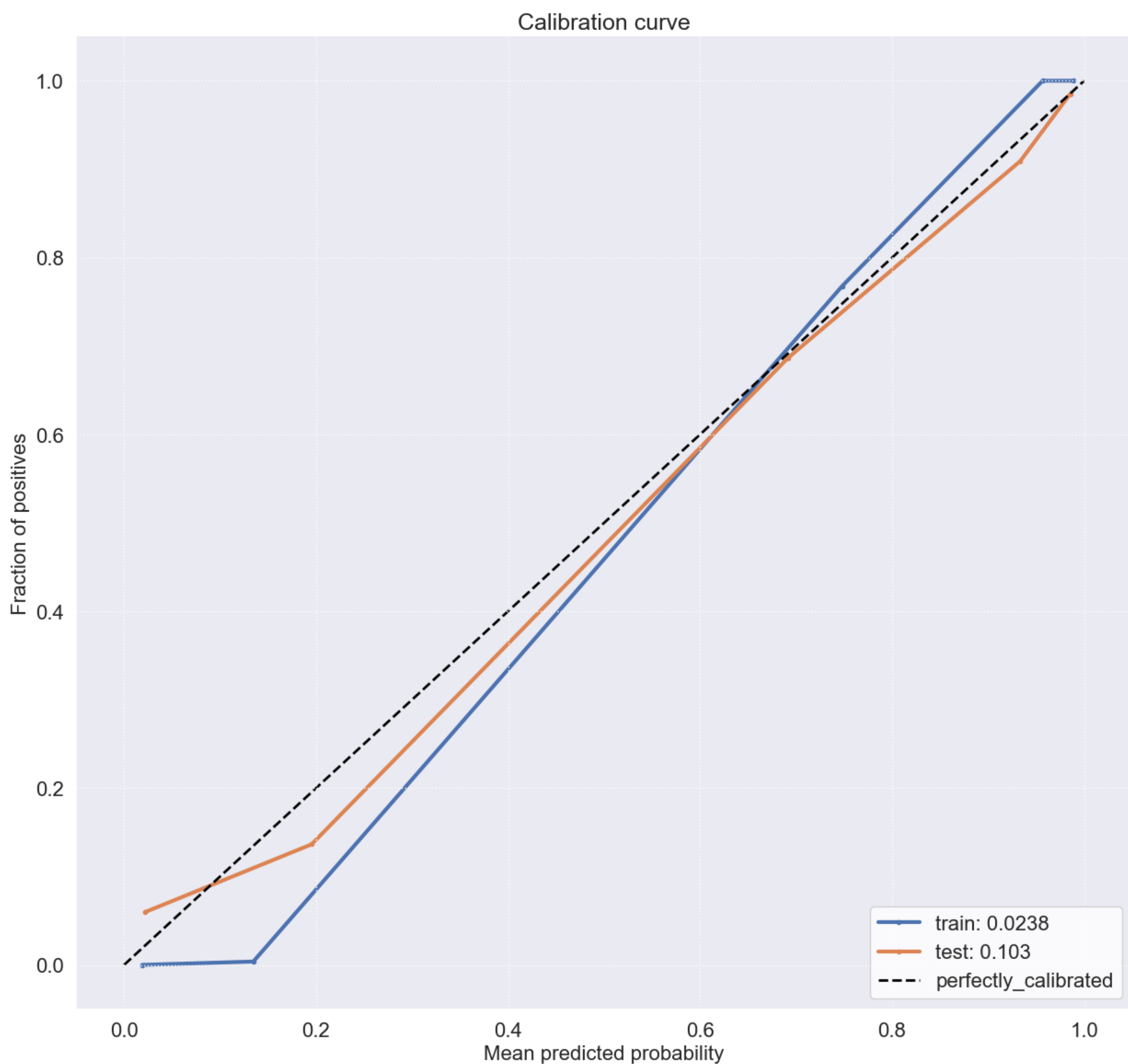
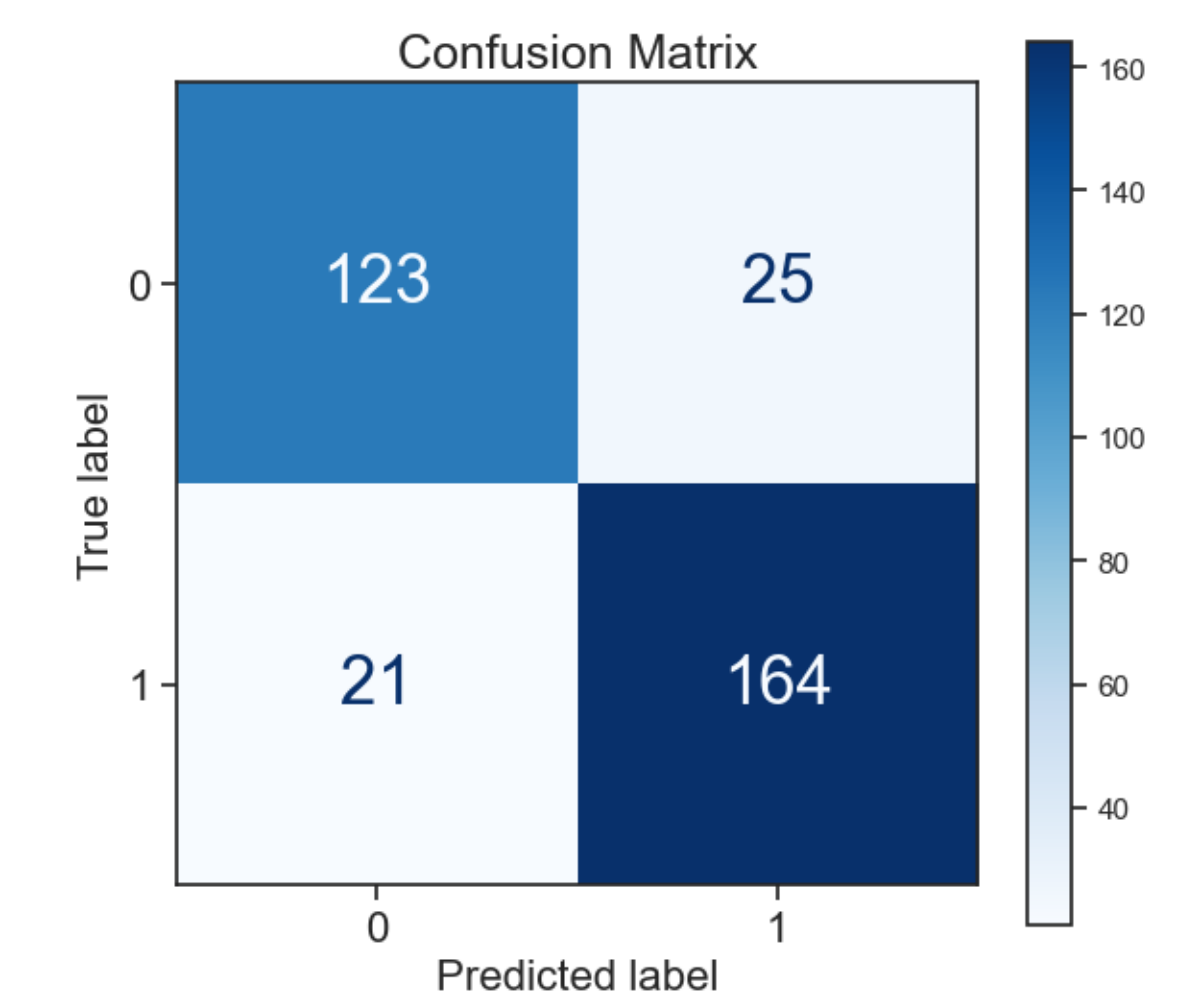


Metric	Train	Test
AUC	0.9933	0.9289
accuracy	0.9579	0.8679
balanced accuracy	0.9565	0.8669
recall_(sens)	0.9701	0.8757
specificity	0.9428	0.8581
precision	0.9546	0.8852
f1_score	0.9579	0.868

Protein: P11229 - metric: f1

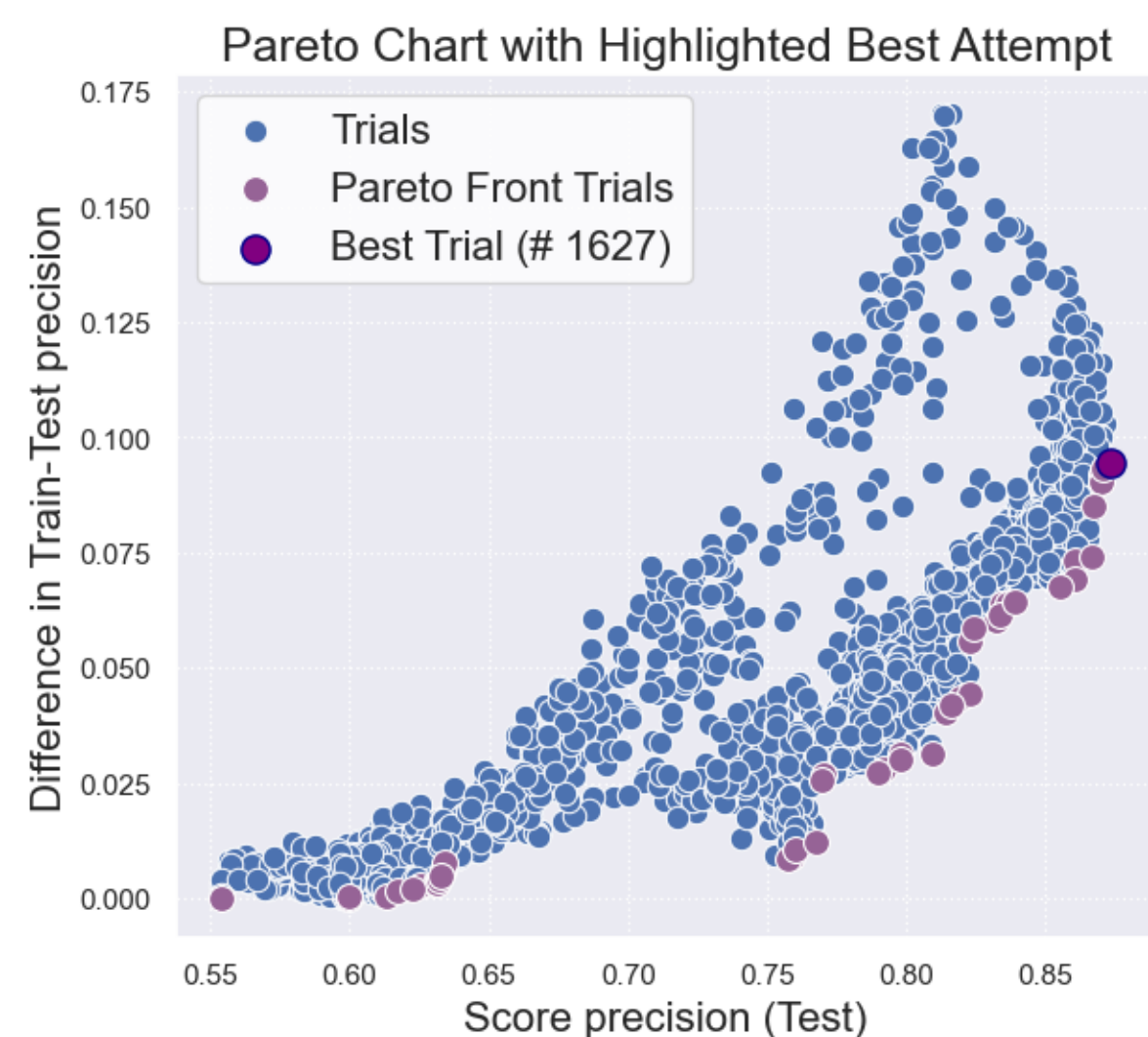
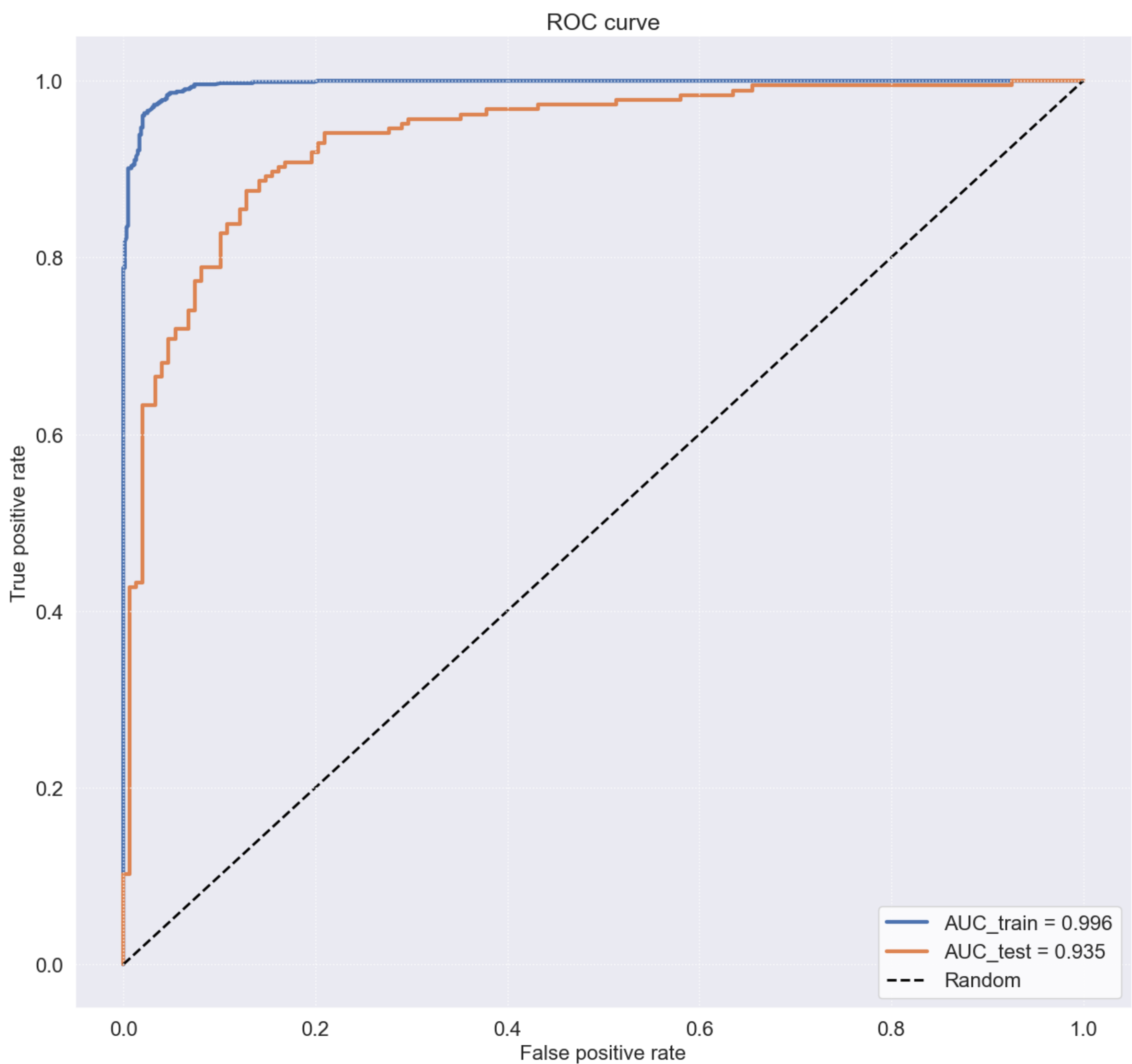
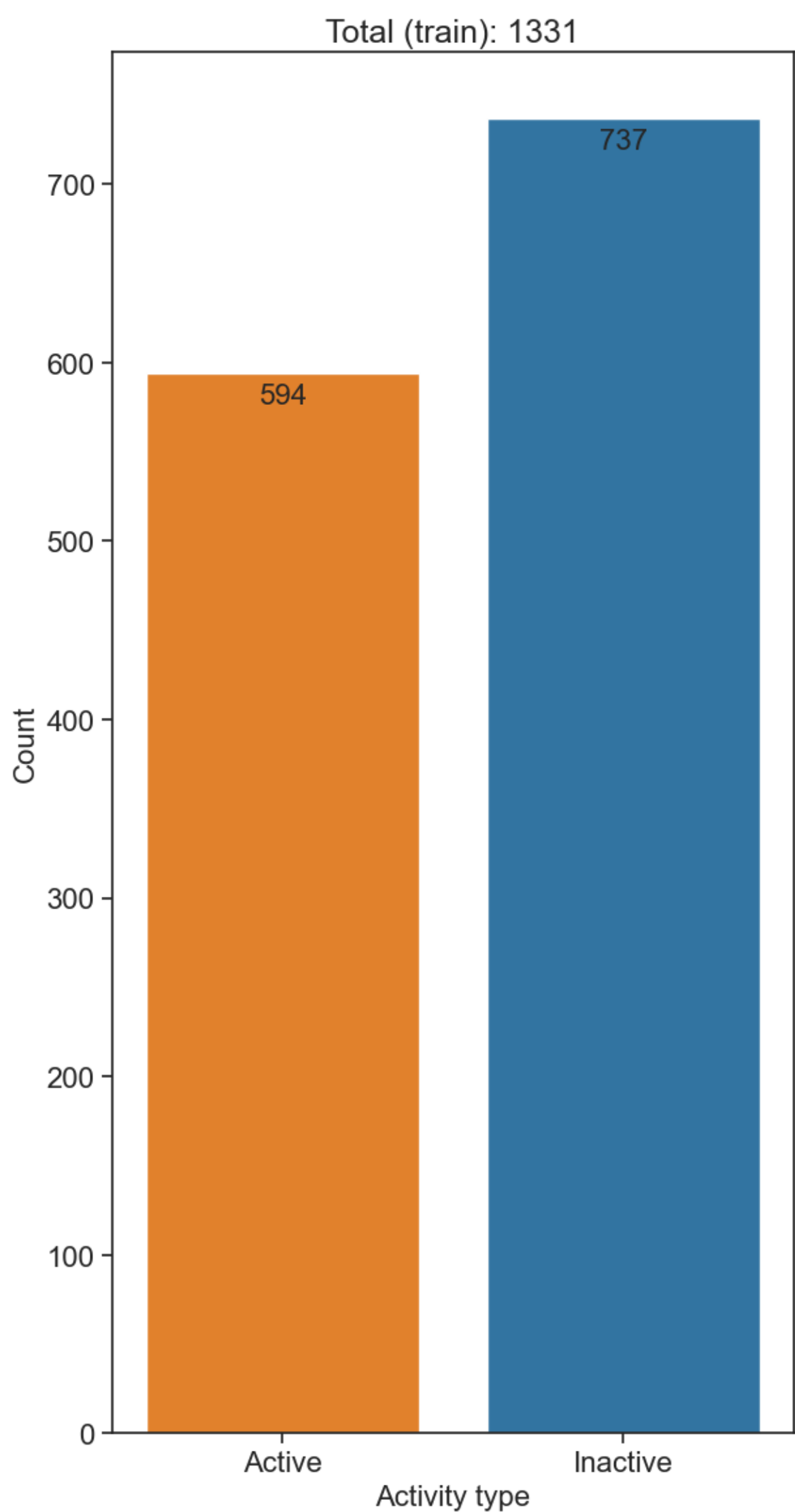


XGBoost Parameters	Value
alpha	4.0424
colsample_bytree	0.9126
gamma	0.3539
lambda	2.0536
learning_rate	0.0615
max_depth	8.0
min_child_weight	1.0
n_estimators	438.0
reg_alpha	0.3836
reg_lambda	0.8124
scale_pos_weight	1.3947
subsample	0.9572

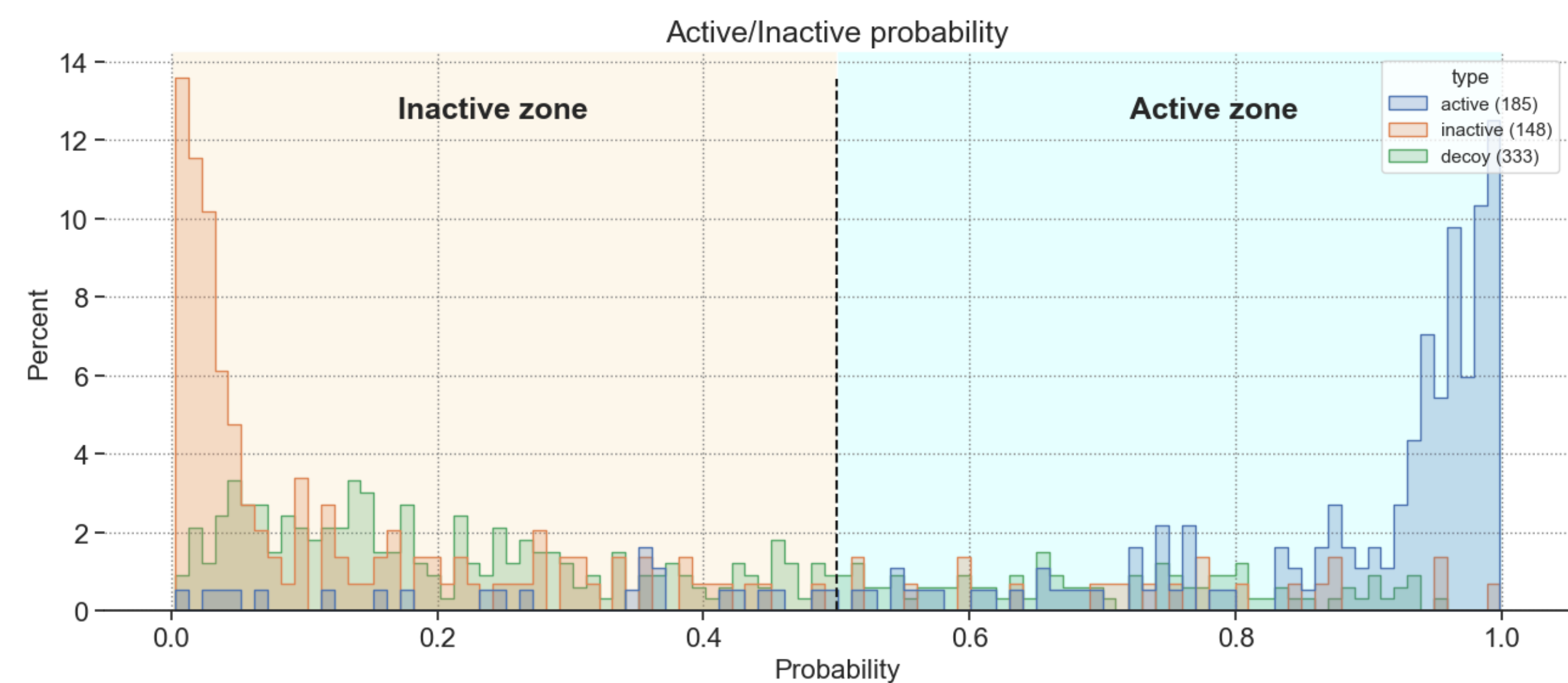
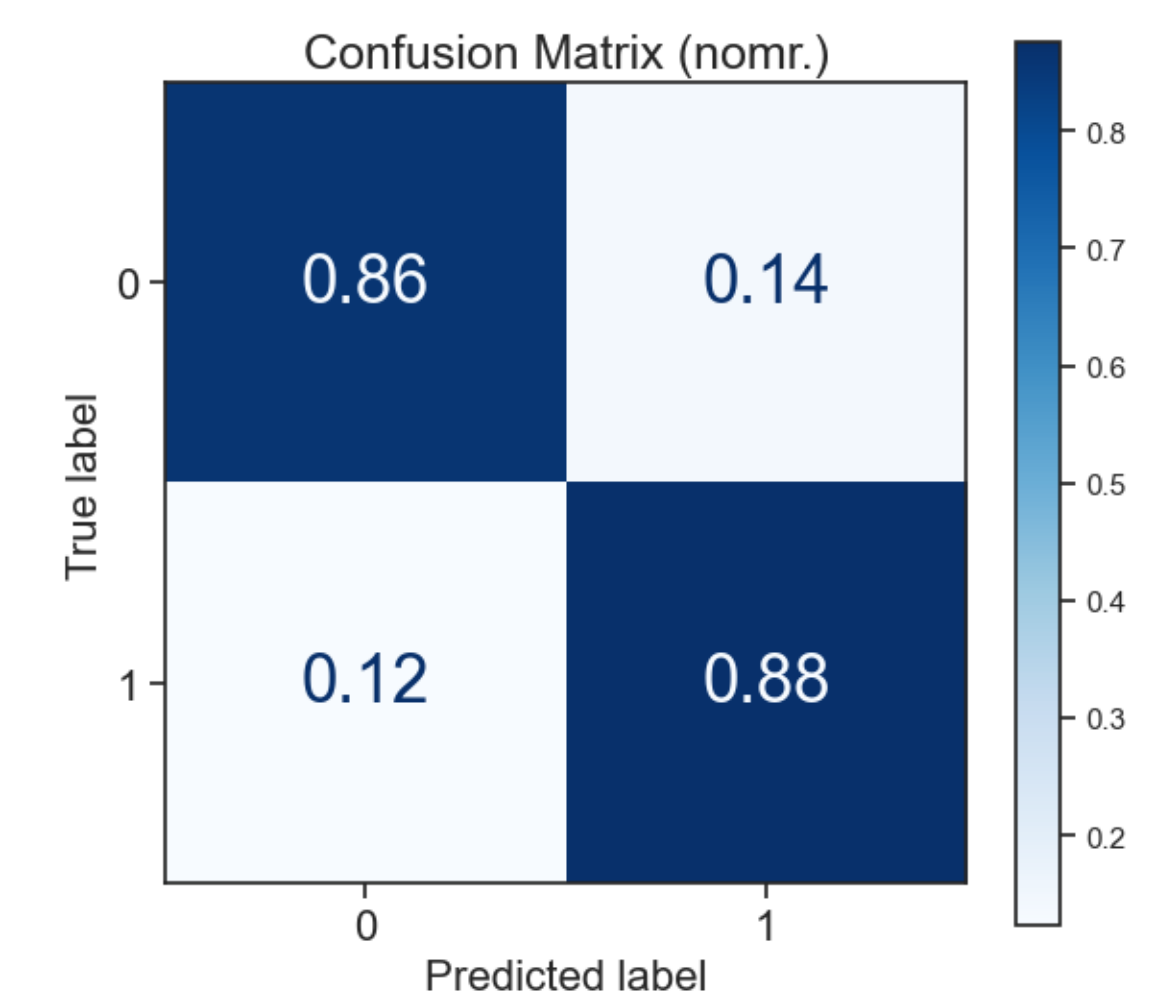
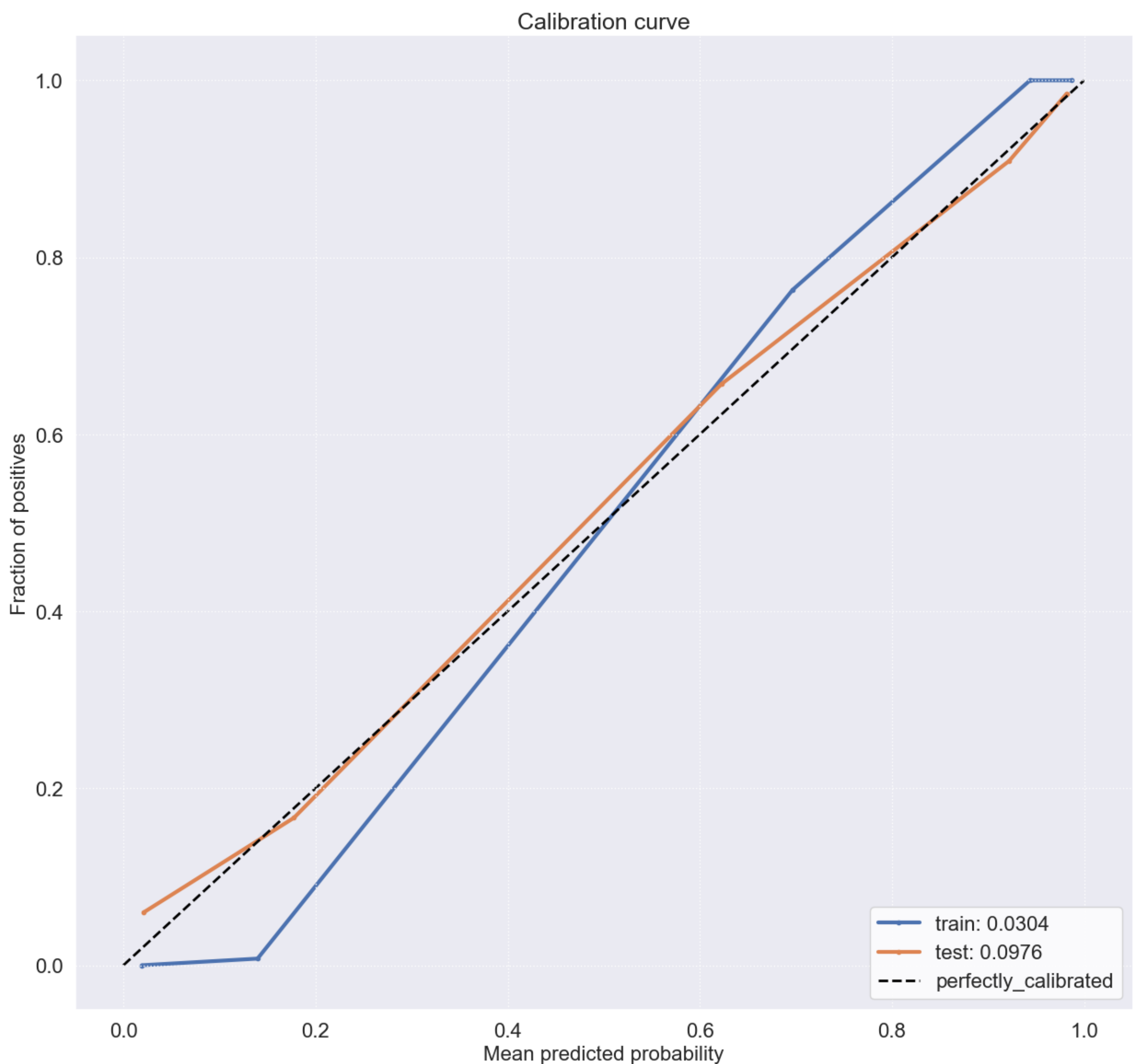
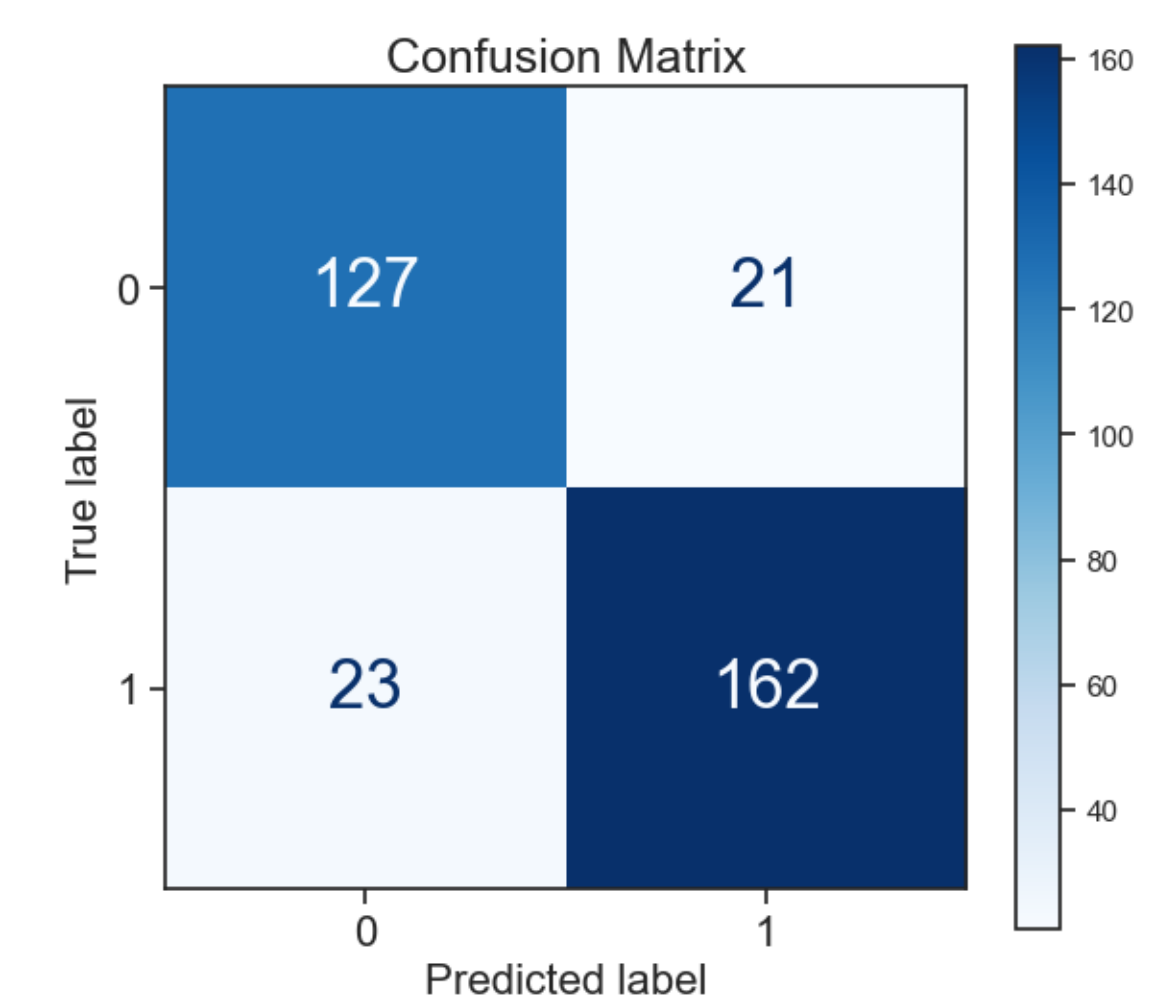


Metric	Train	Test
AUC	0.9986	0.9295
accuracy	0.9782	0.8619
balanced accuracy	0.9761	0.8588
recall_(sens)	0.9959	0.8865
specificity	0.9562	0.8311
precision	0.9658	0.8677
f1_score	0.9782	0.8617

Protein: P11229 - metric: precision

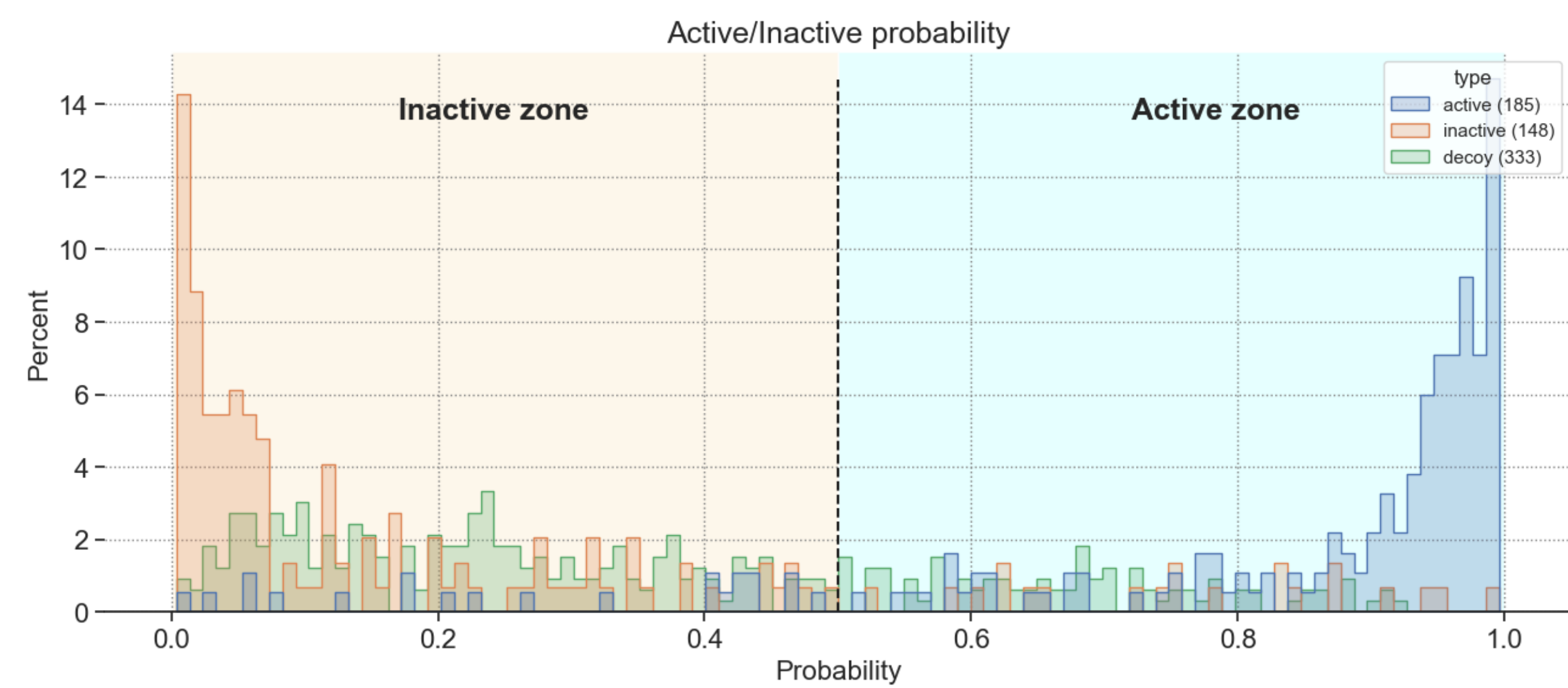
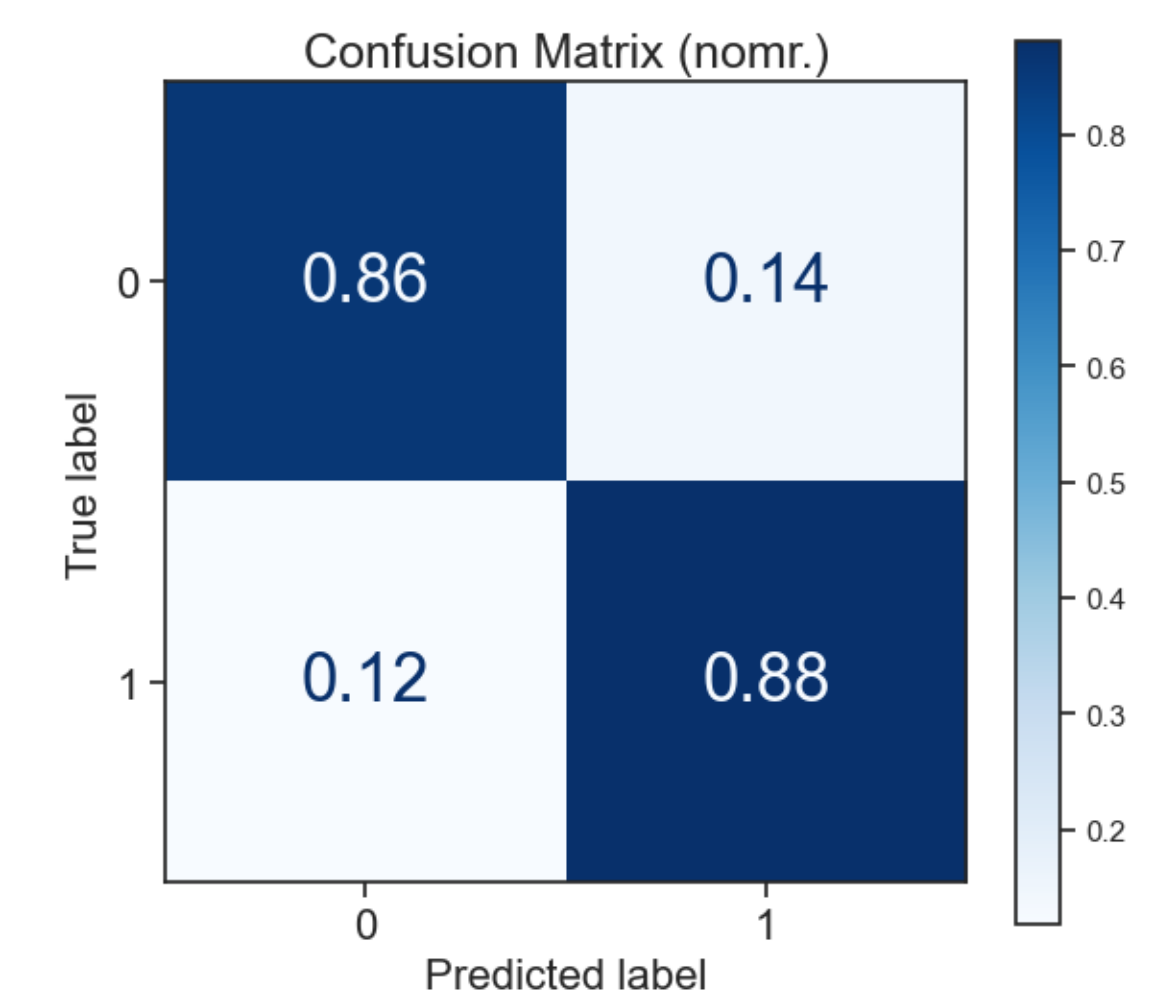
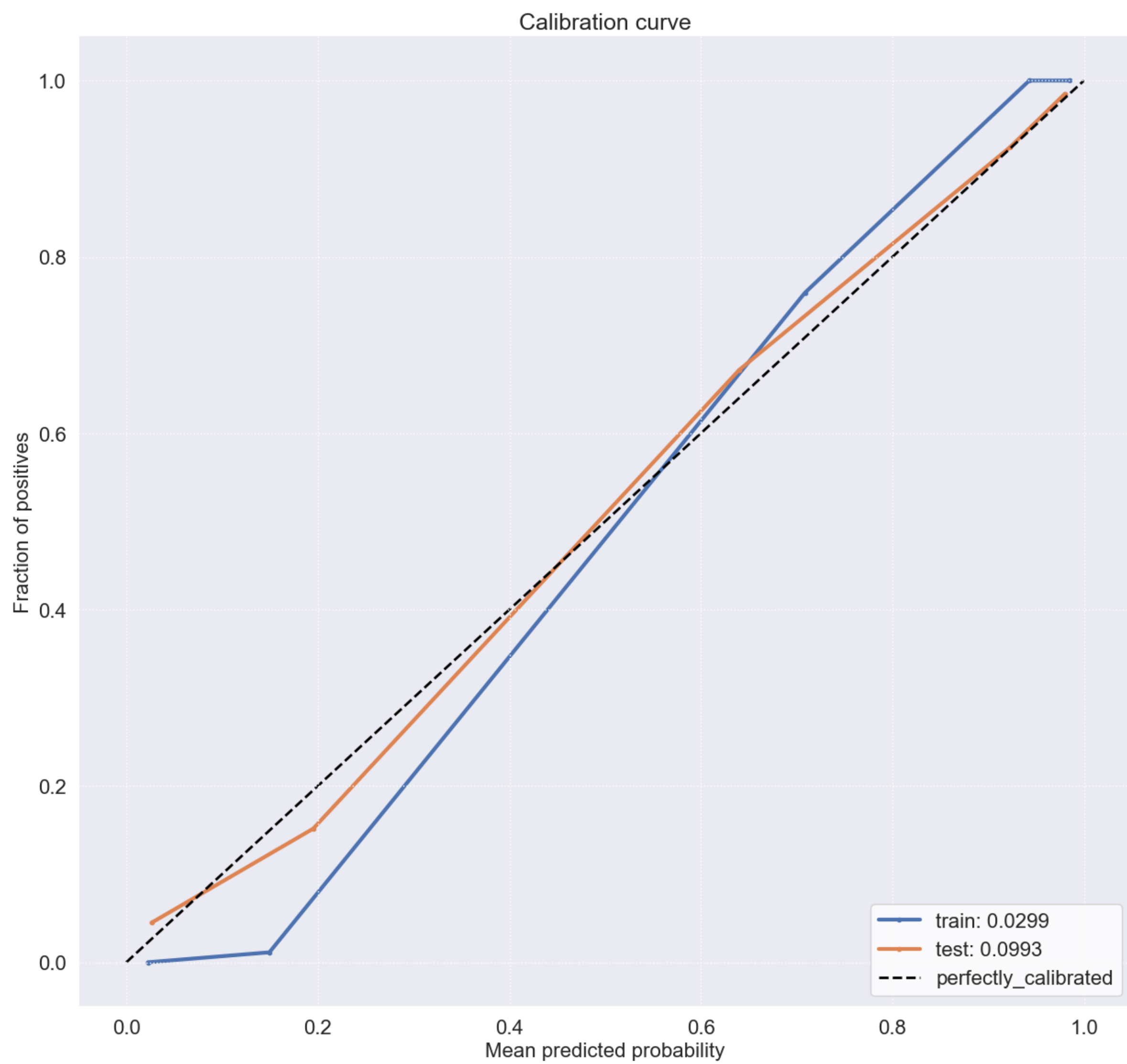
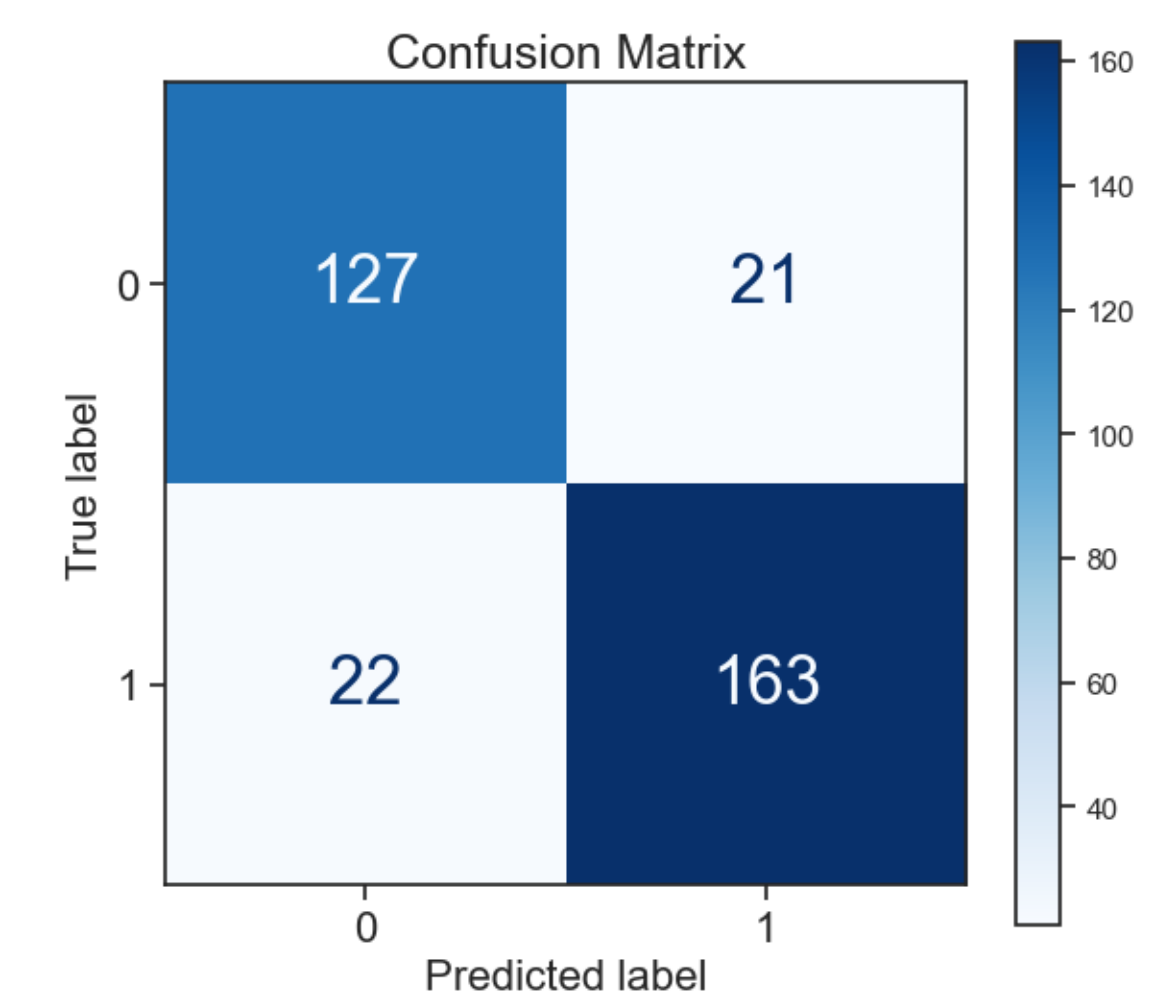
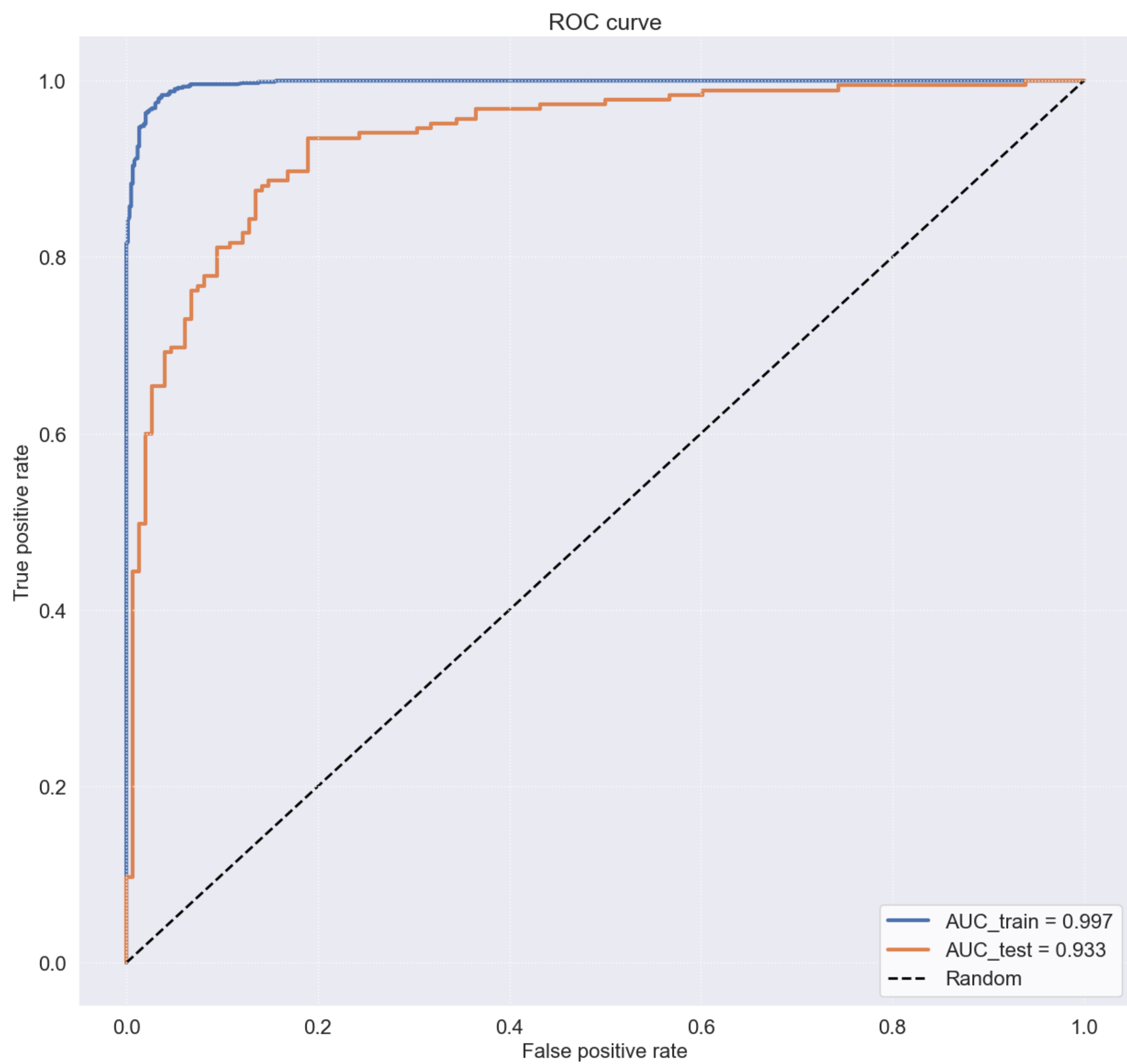
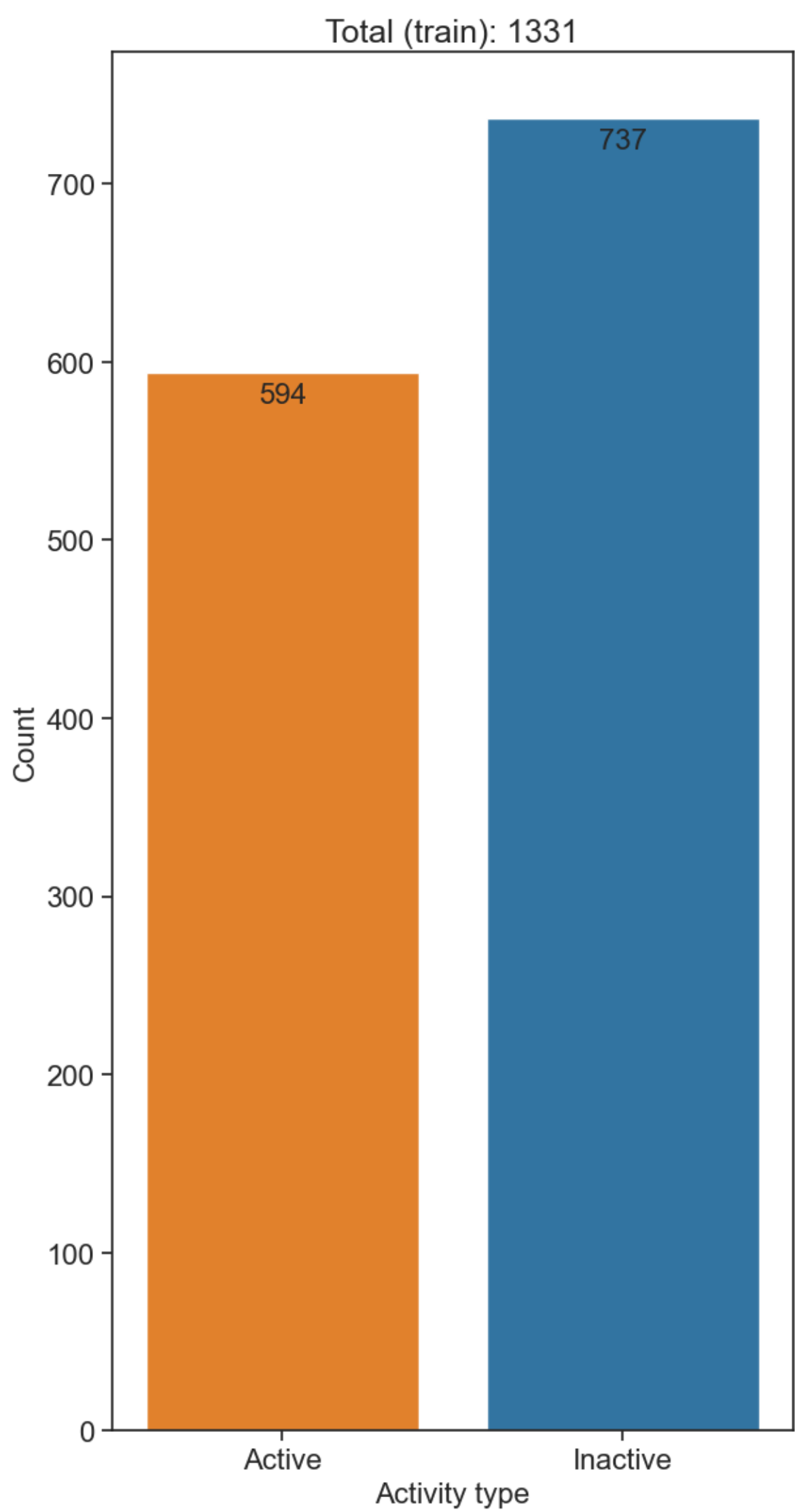


XGBoost Parameters	Value
alpha	2.1987
colsample_bytree	0.6549
gamma	0.2291
lambda	0.6975
learning_rate	0.0247
max_depth	10.0
min_child_weight	3.0
n_estimators	904.0
reg_alpha	0.352
reg_lambda	0.9731
scale_pos_weight	1.0746
subsample	0.7356



Metric	Train	Test
AUC	0.9964	0.9347
accuracy	0.9692	0.8679
balanced accuracy	0.9681	0.8669
recall_(sens)	0.9783	0.8757
specificity	0.9579	0.8581
precision	0.9665	0.8852
f1_score	0.9692	0.868

Protein: P11229 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.997	0.9332
accuracy	0.973	0.8709
balanced accuracy	0.9712	0.8696
recall_(sens)	0.9878	0.8811
specificity	0.9545	0.8581
precision	0.9642	0.8859
f1_score	0.9729	0.8709