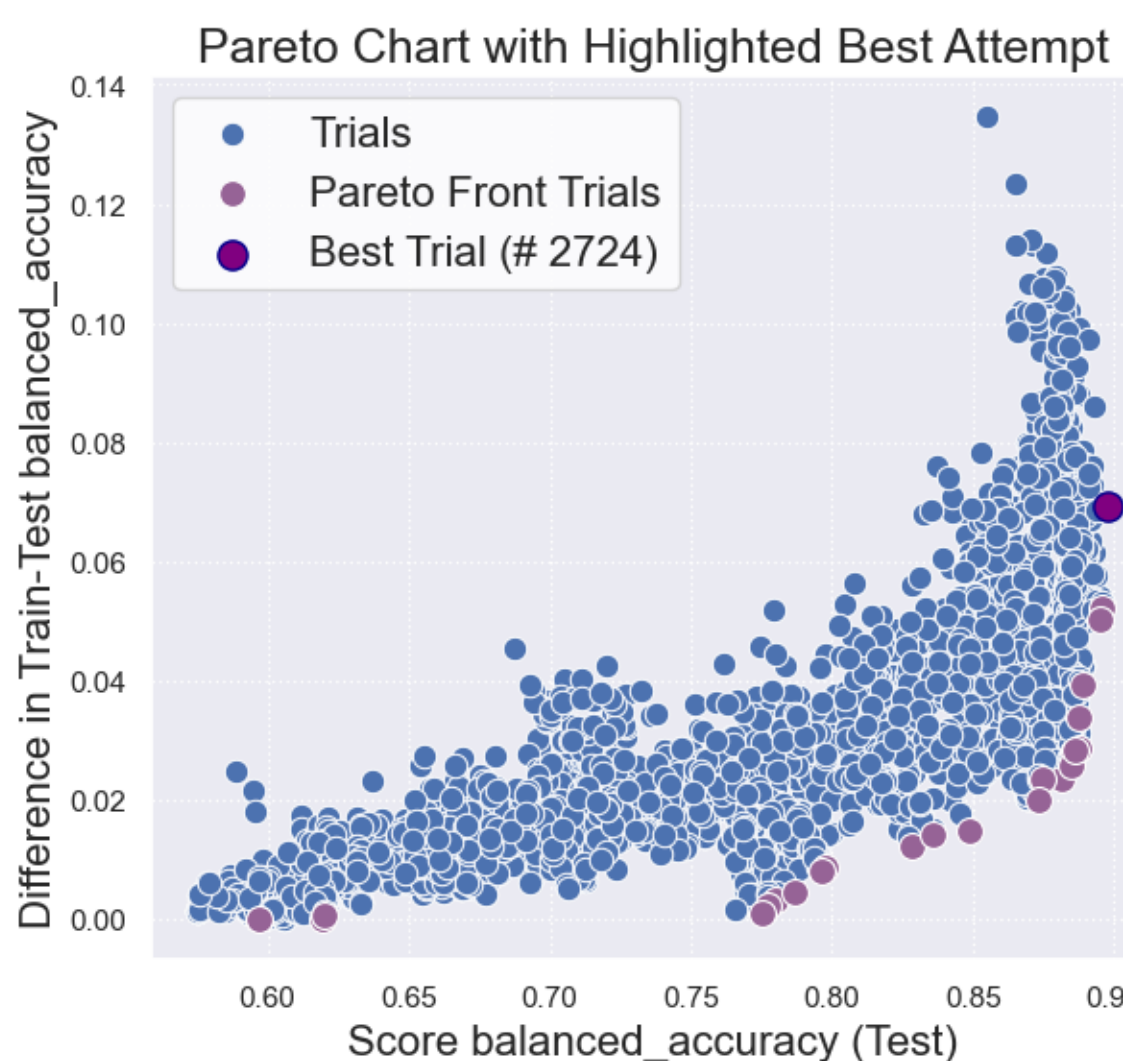
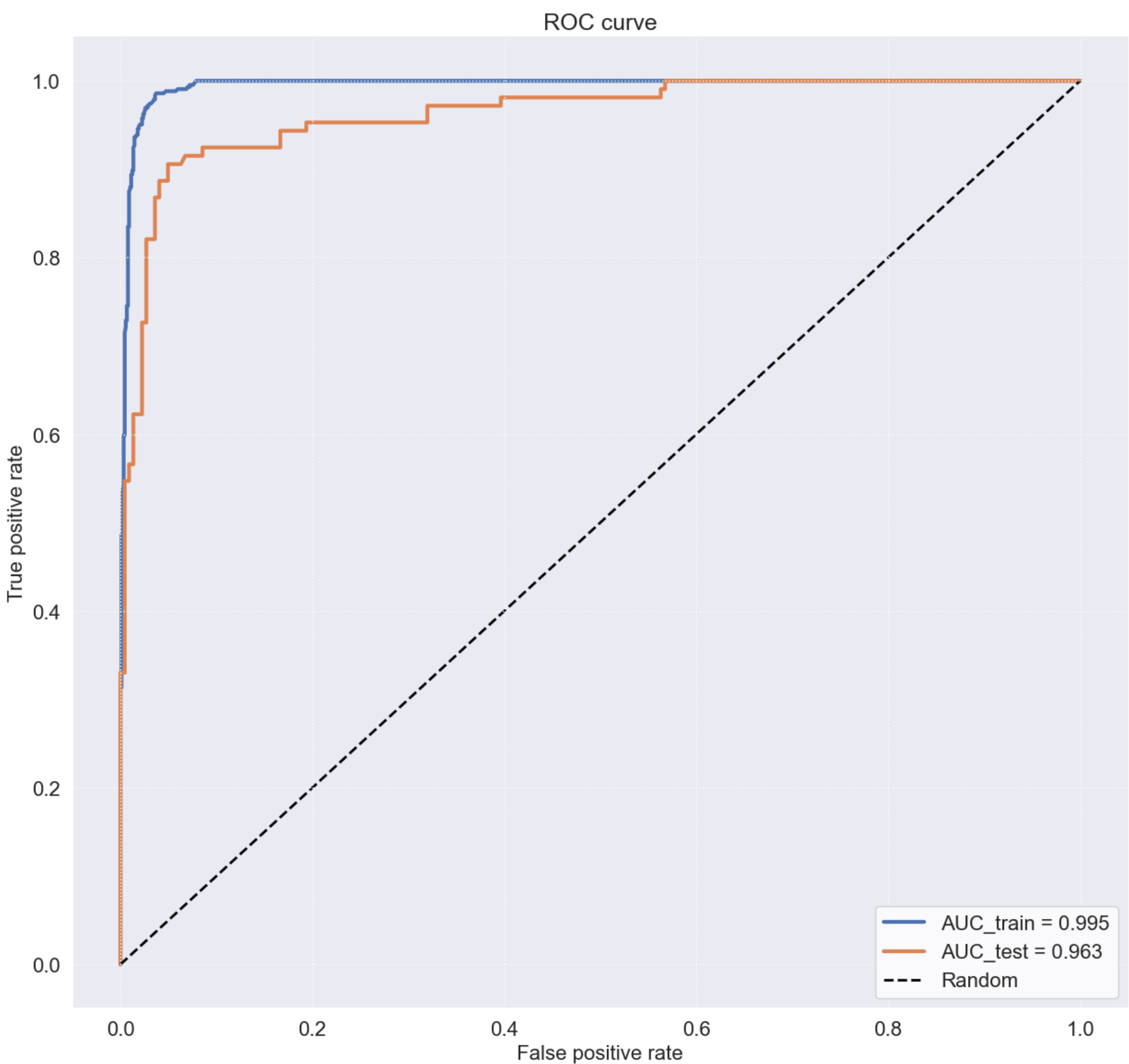
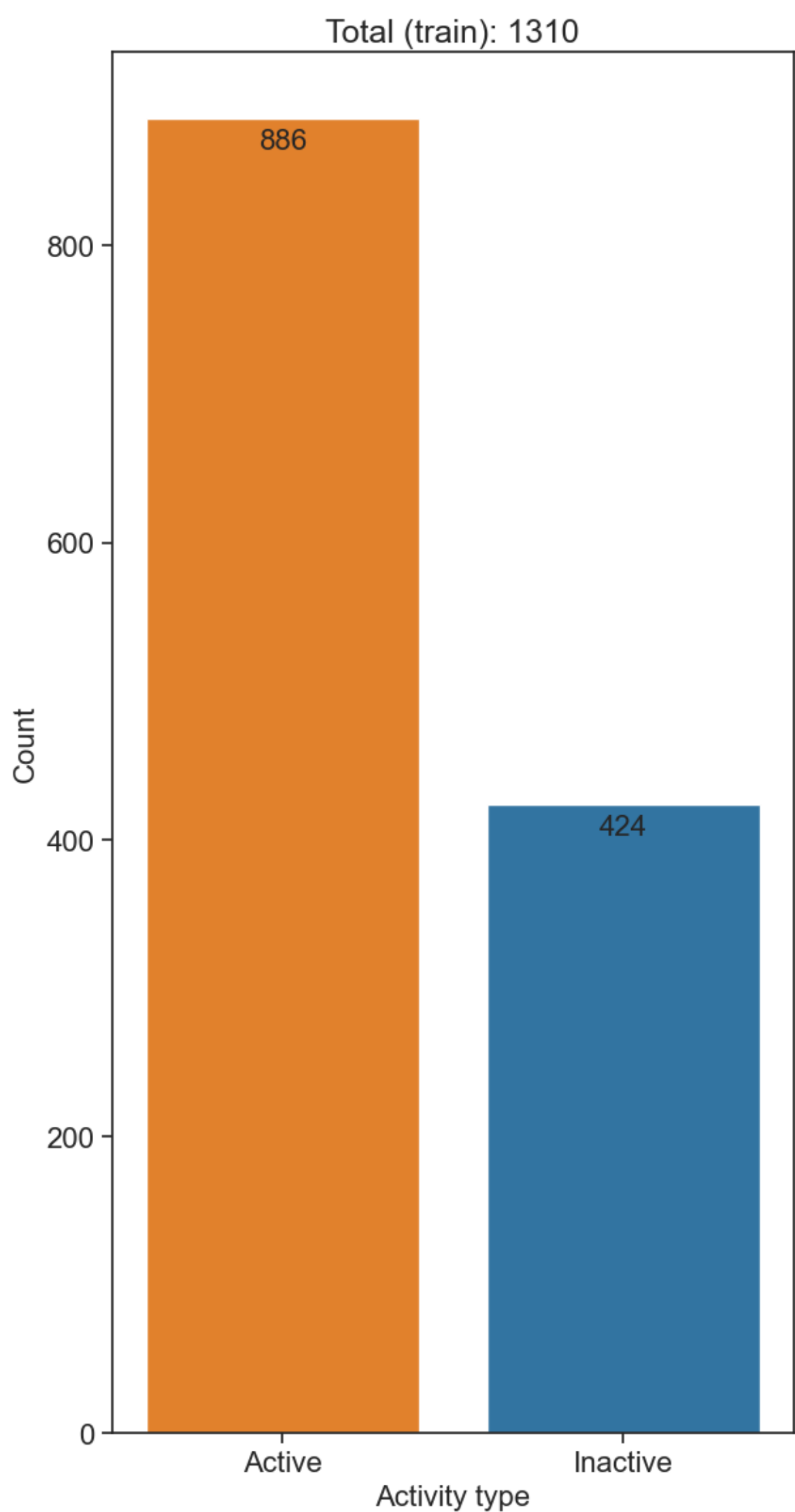
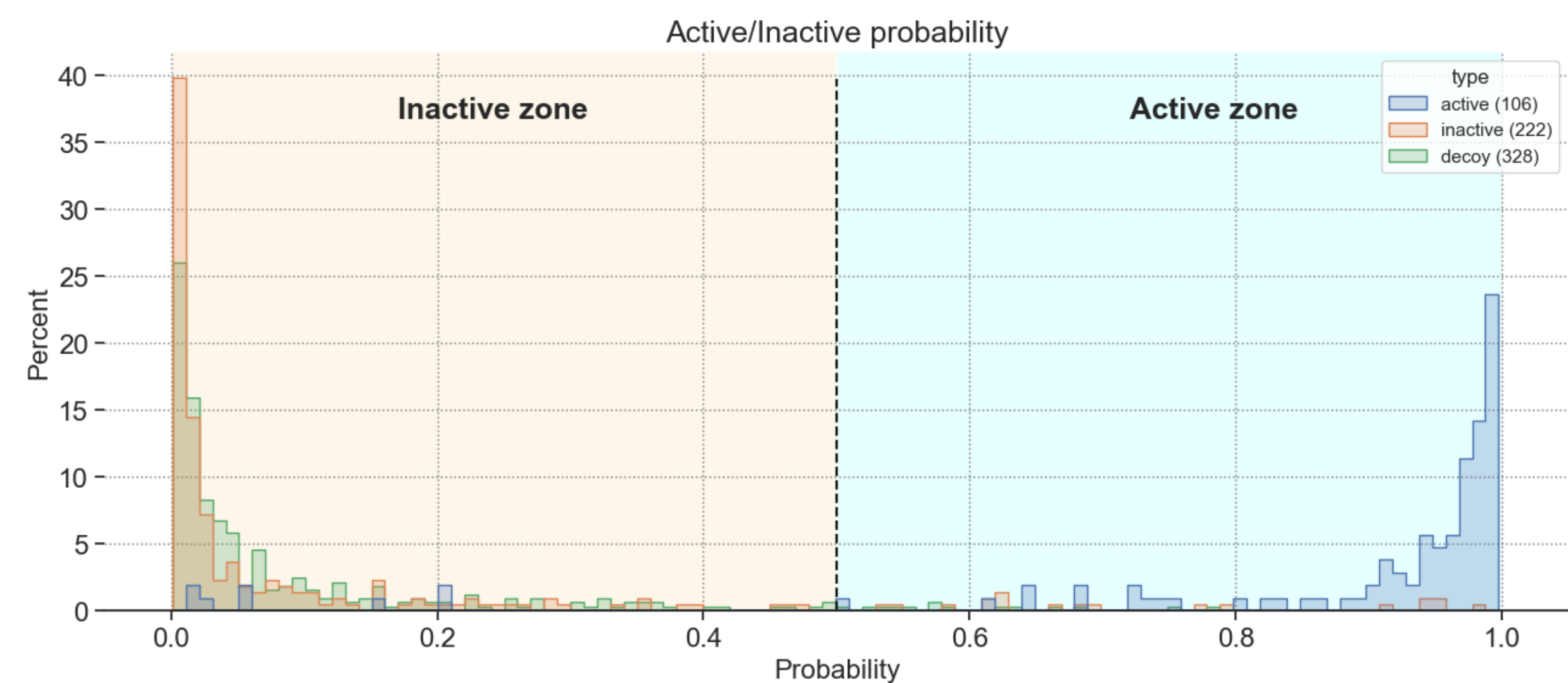
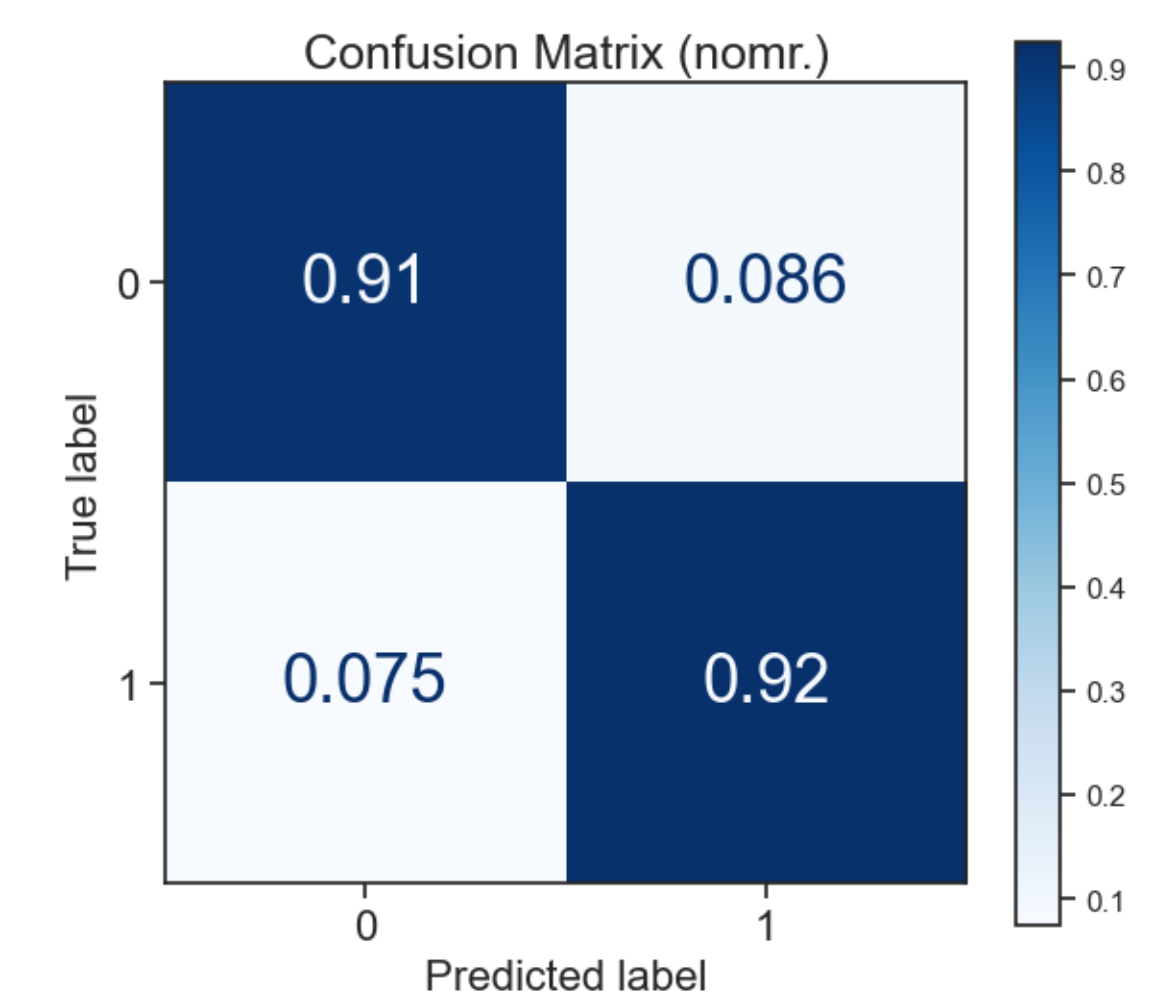
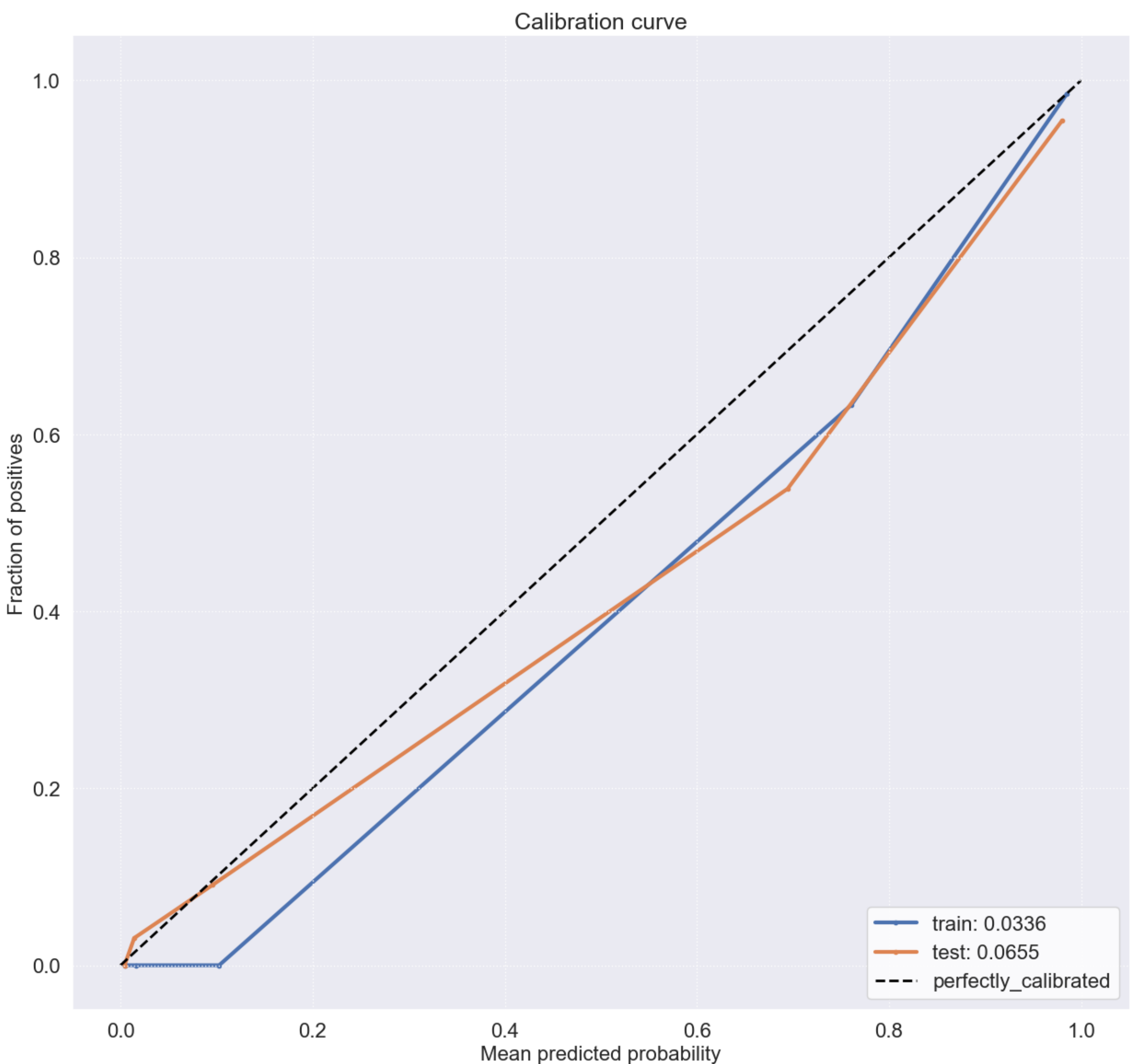
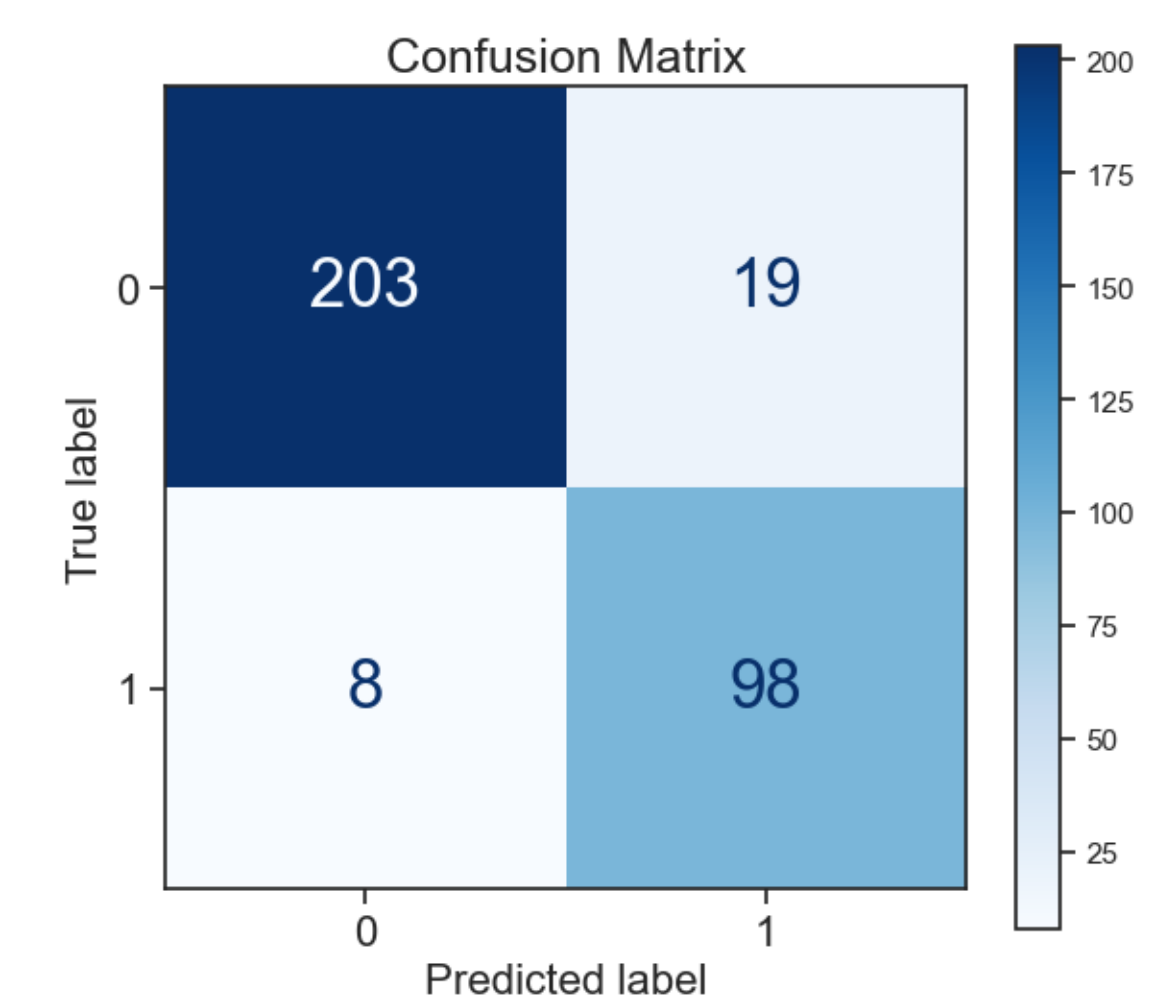


Protein: Q92542 - metric: balanced_accuracy

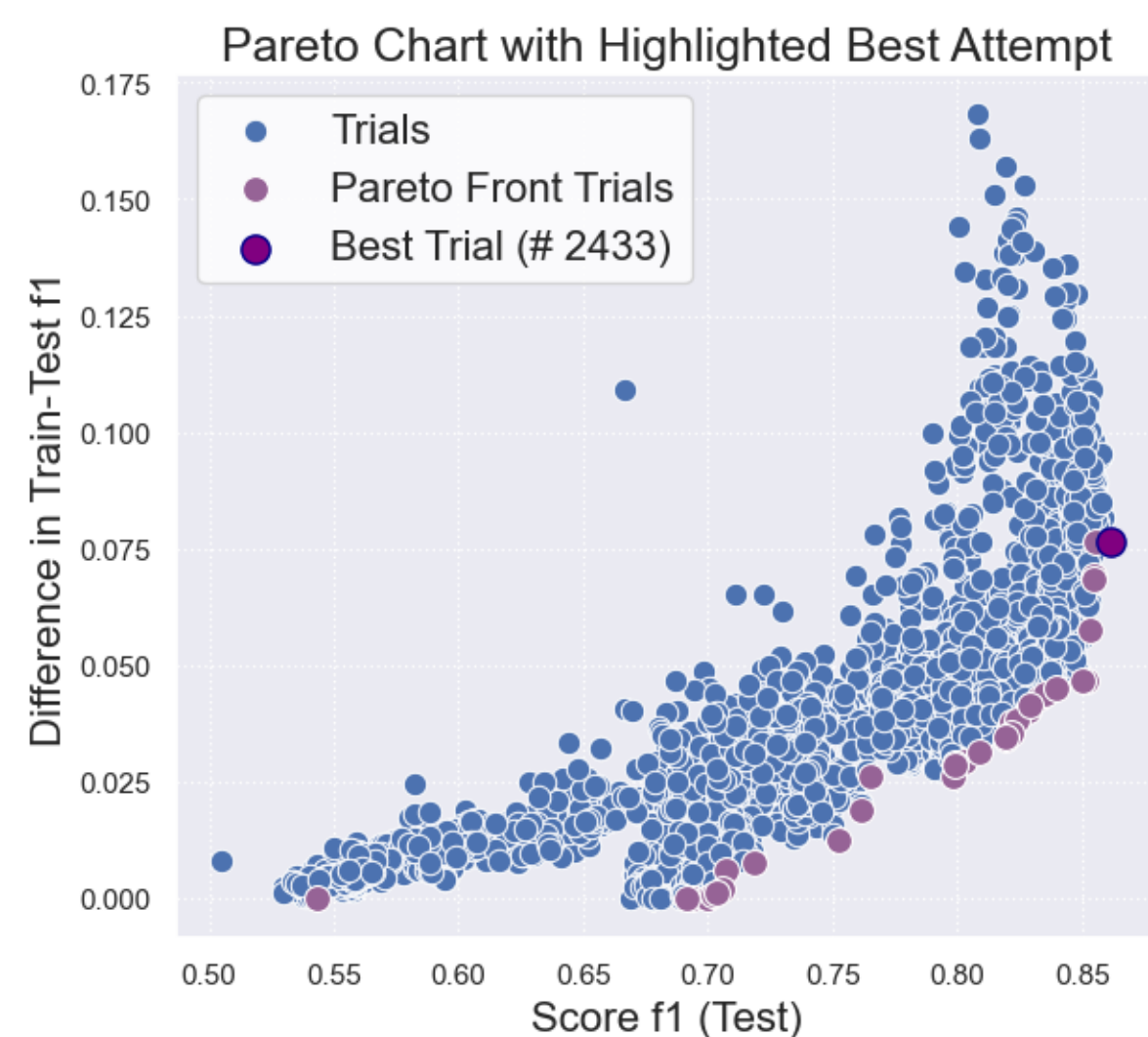
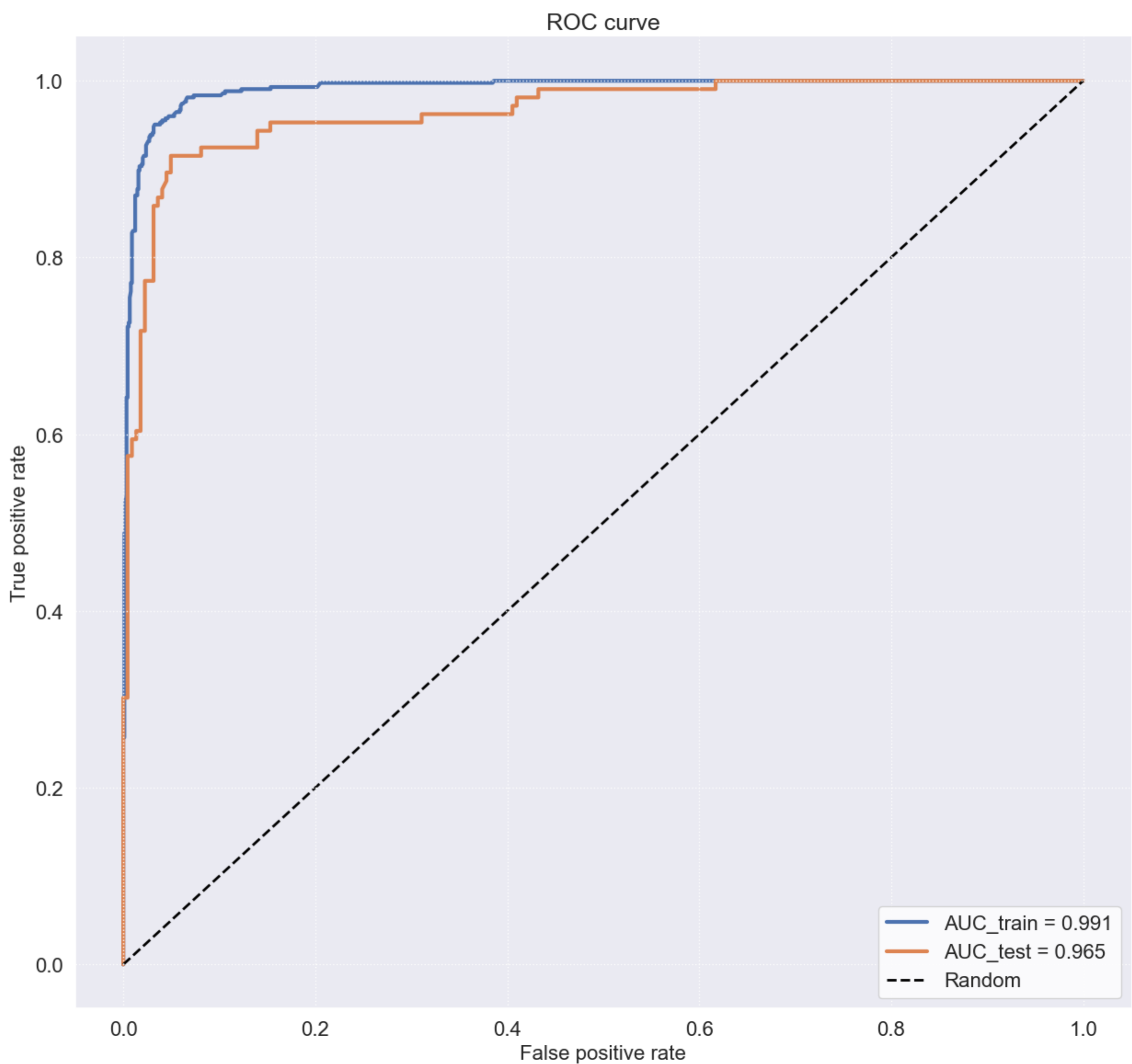
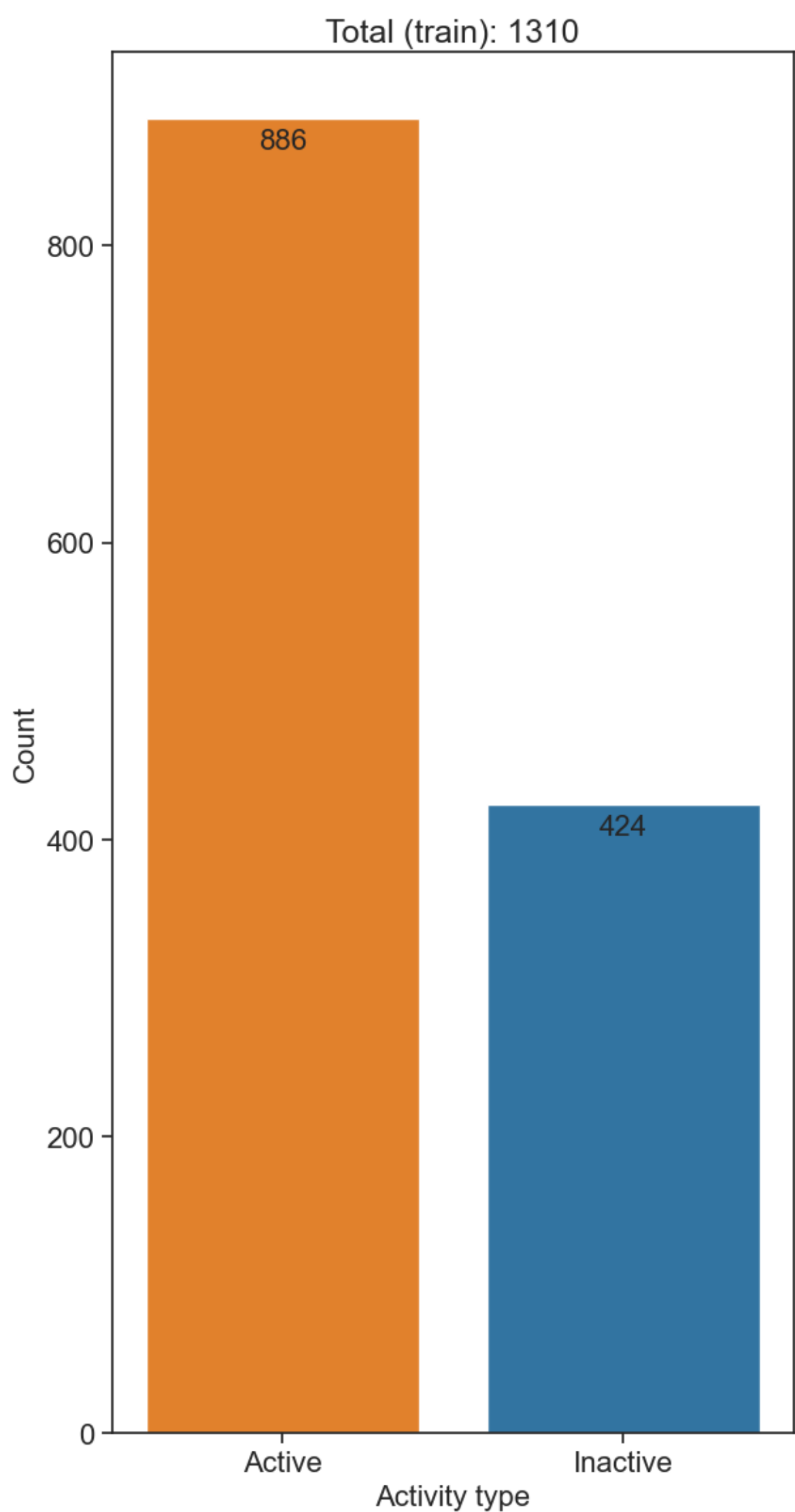


XGBoost Parameters	Value
alpha	4.8201
colsample_bytree	0.6671
gamma	0.5052
lambda	3.7264
learning_rate	0.0149
max_depth	8.0
min_child_weight	4.0
n_estimators	908.0
reg_alpha	0.3932
reg_lambda	0.0035
scale_pos_weight	4.0441
subsample	0.7835

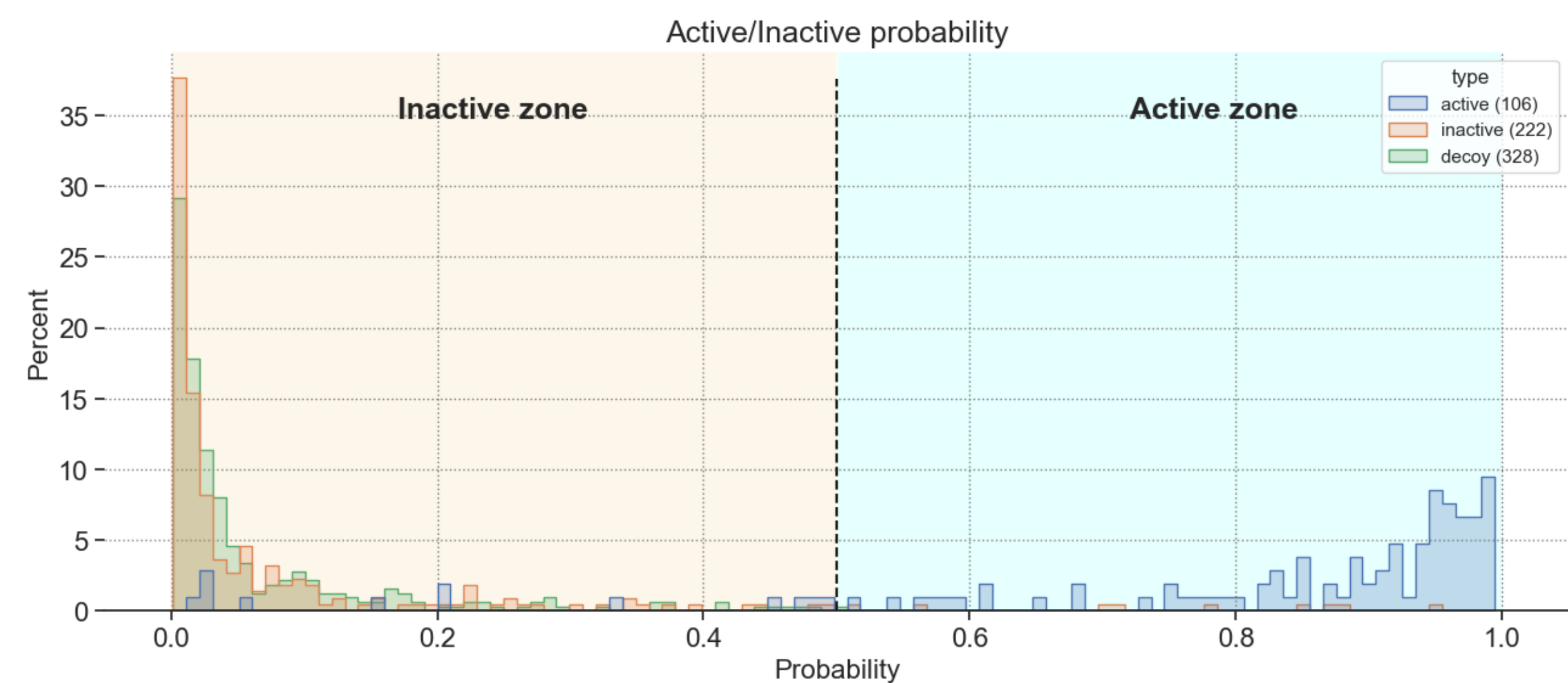
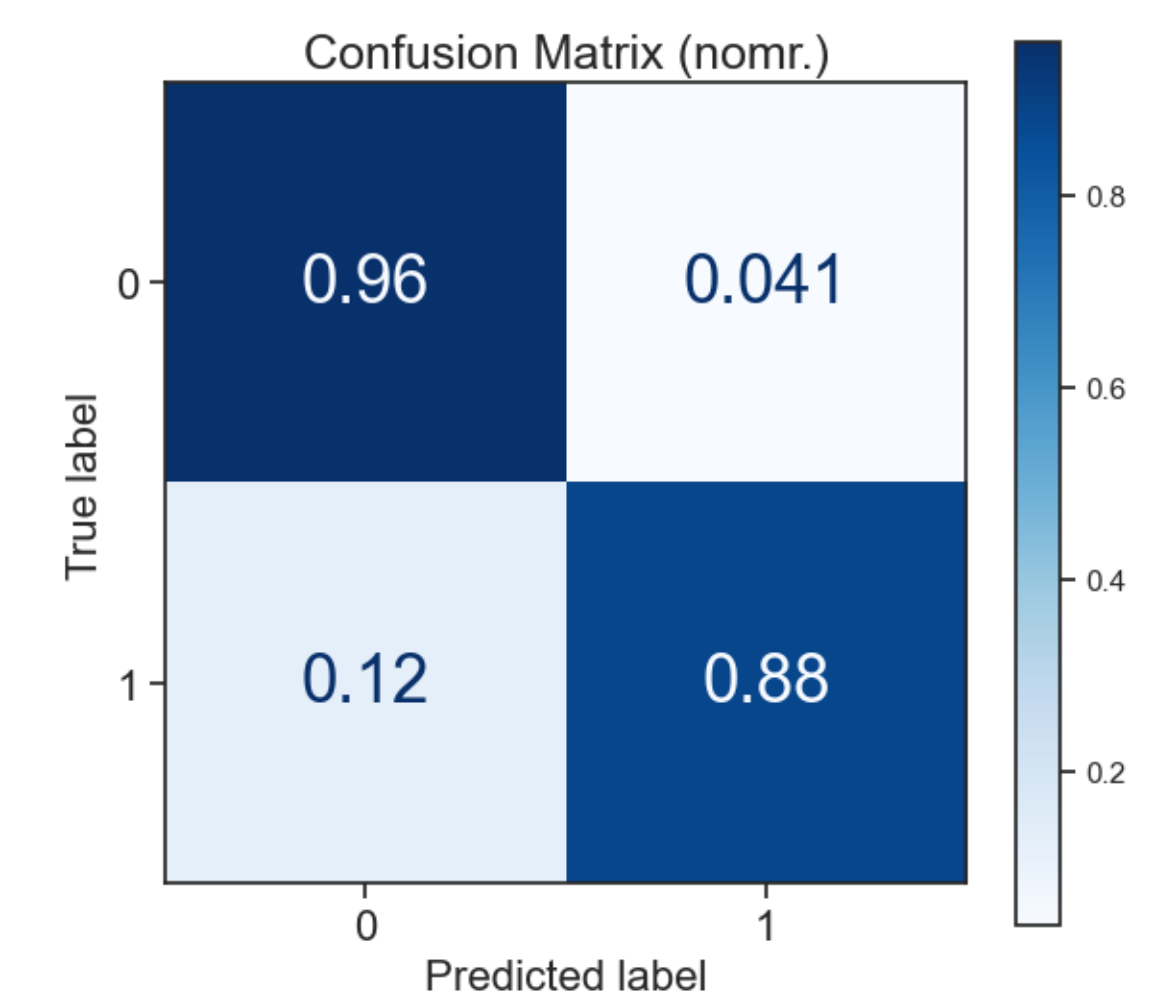
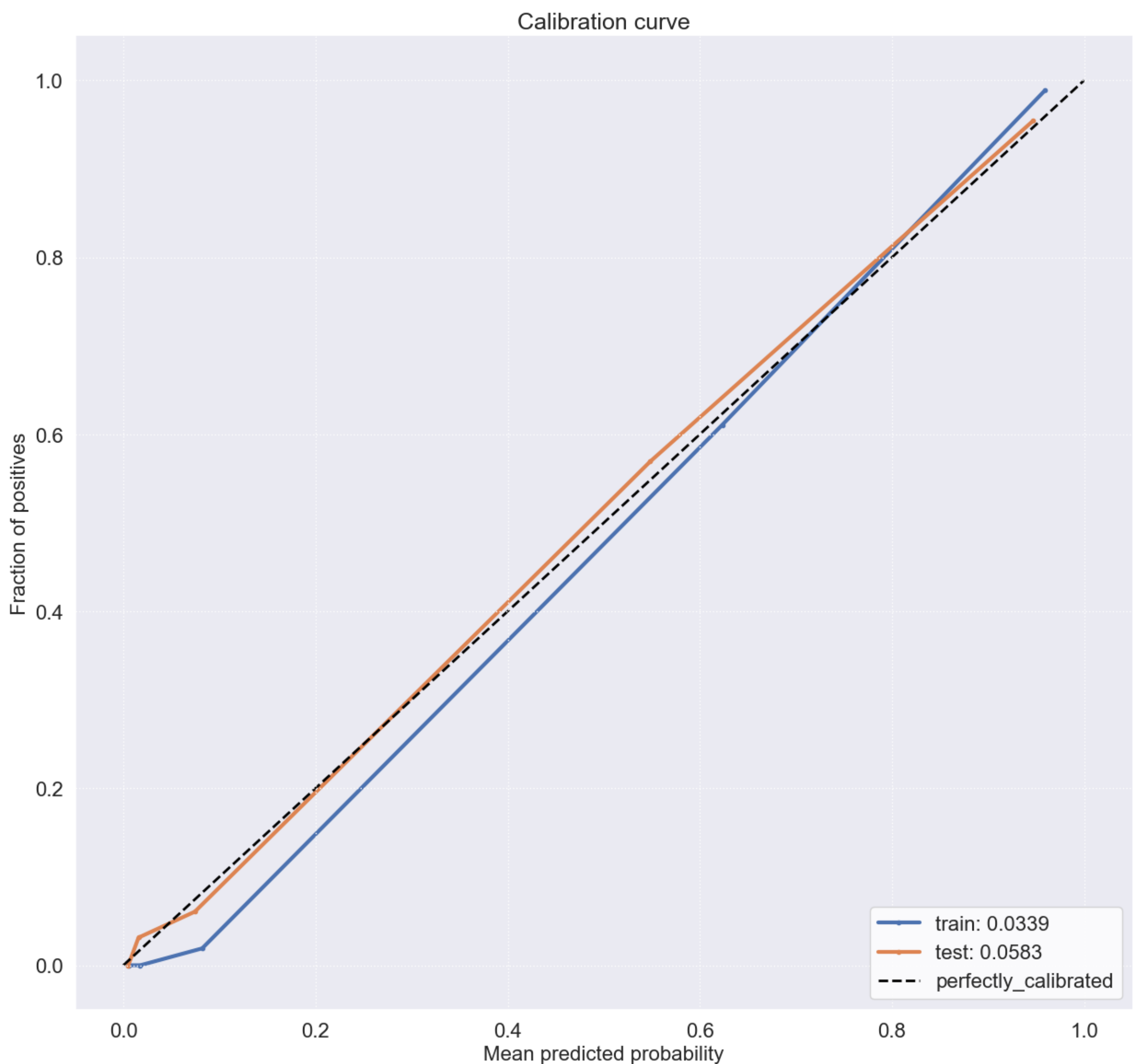
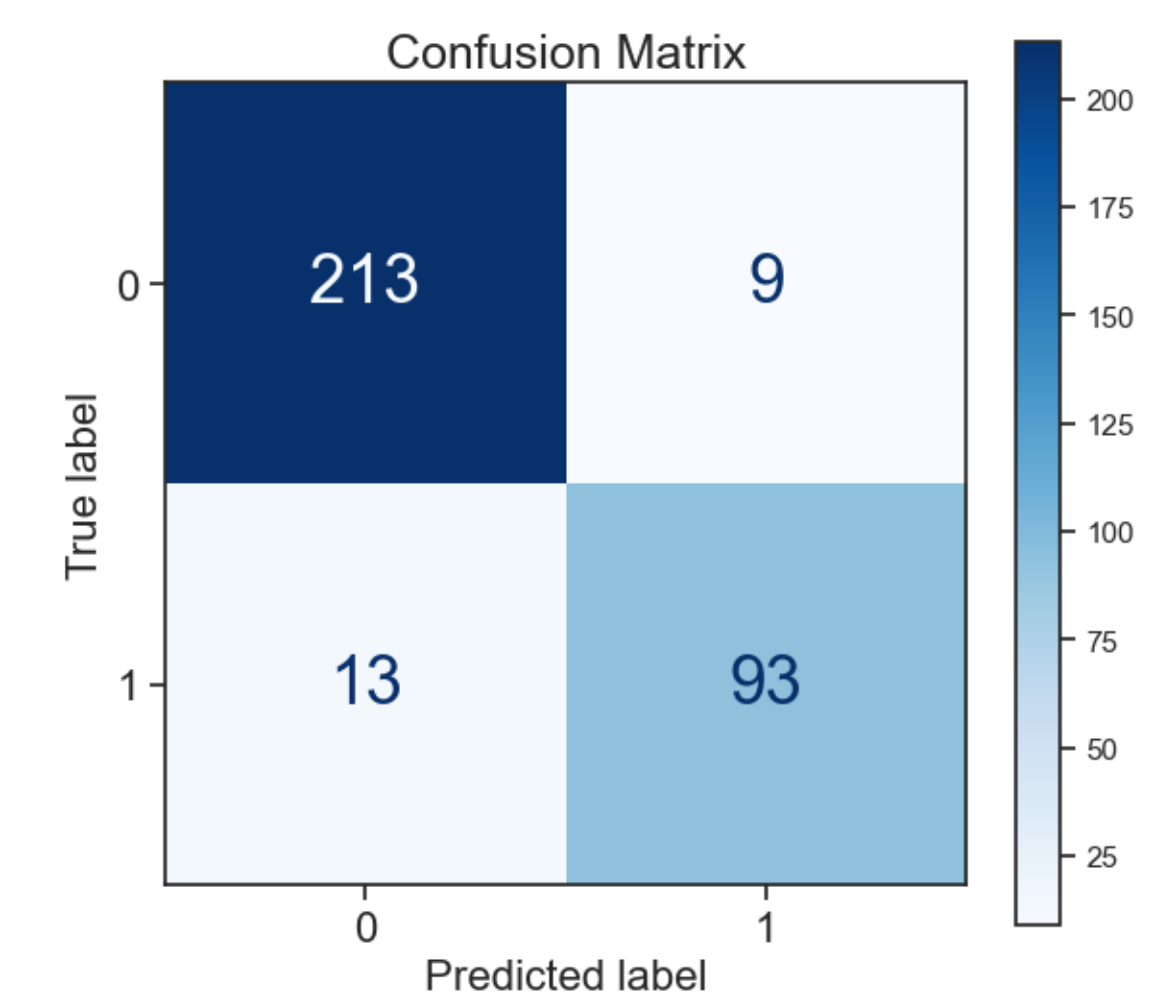


Metric	Train	Test
AUC	0.9947	0.963
accuracy	0.955	0.9177
balanced accuracy	0.9642	0.9195
recall_(sens)	0.9906	0.9245
specificity	0.9379	0.9144
precision	0.8842	0.8376
f1_score	0.9556	0.9187

Protein: Q92542 - metric: f1

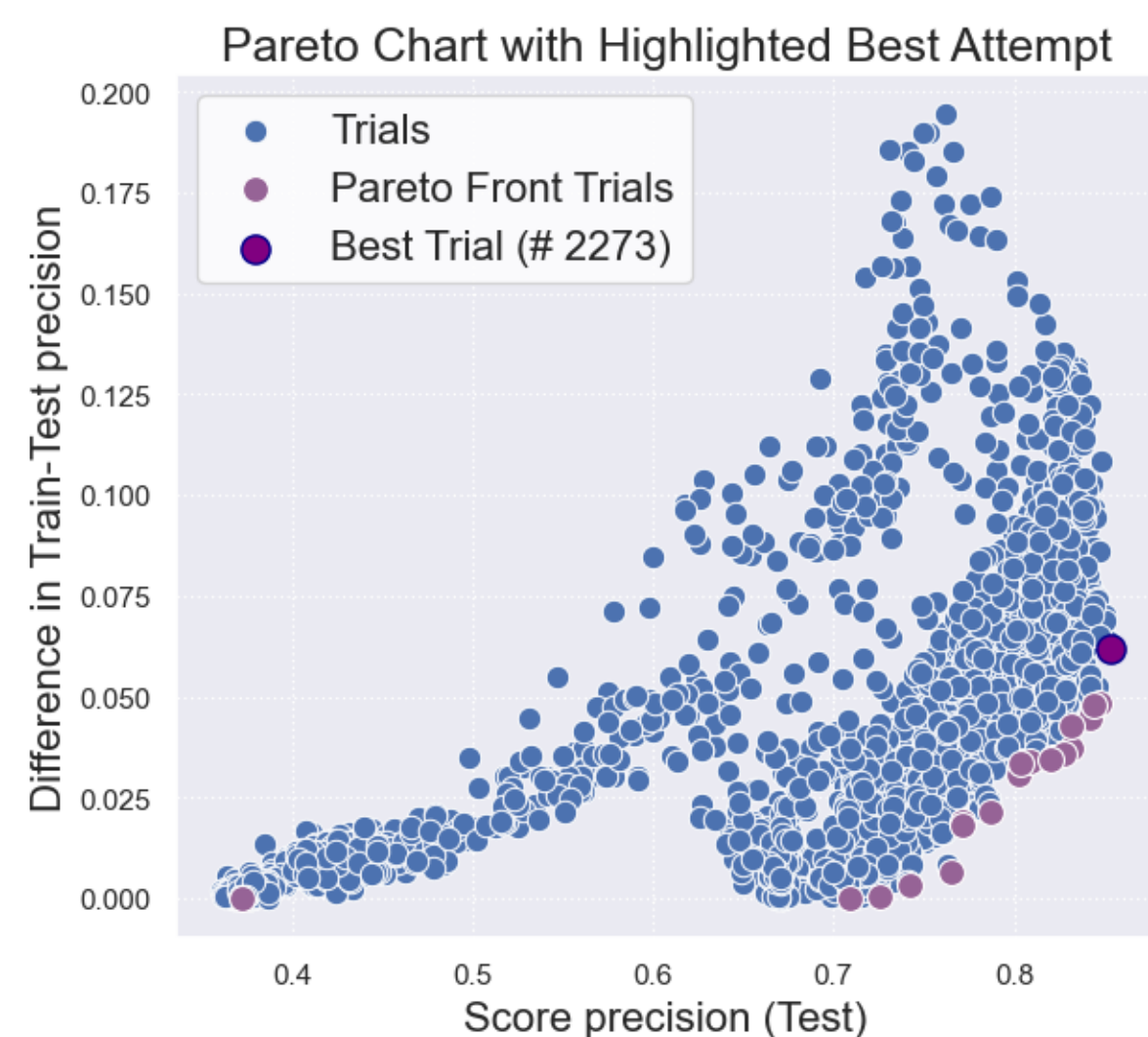
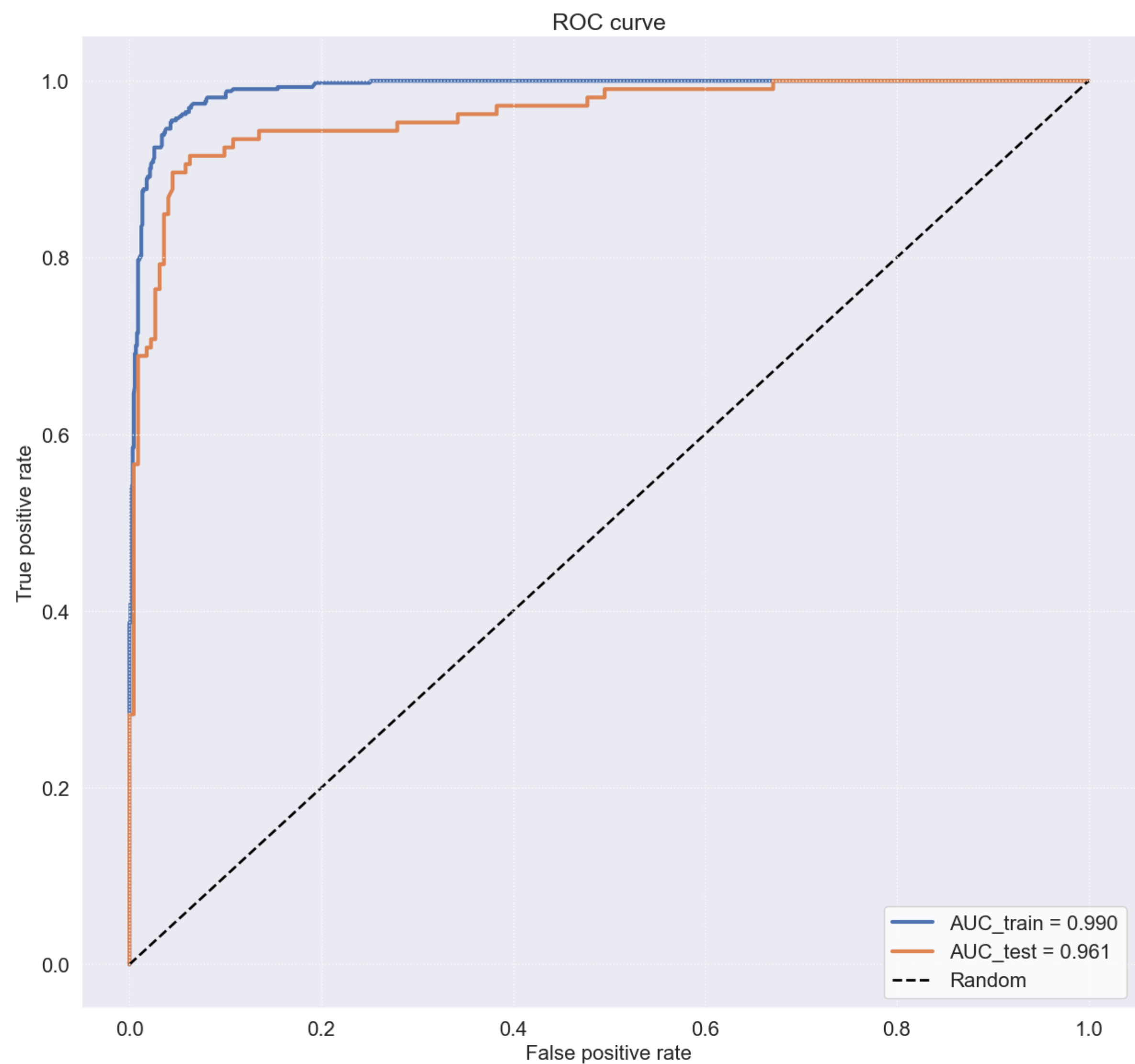
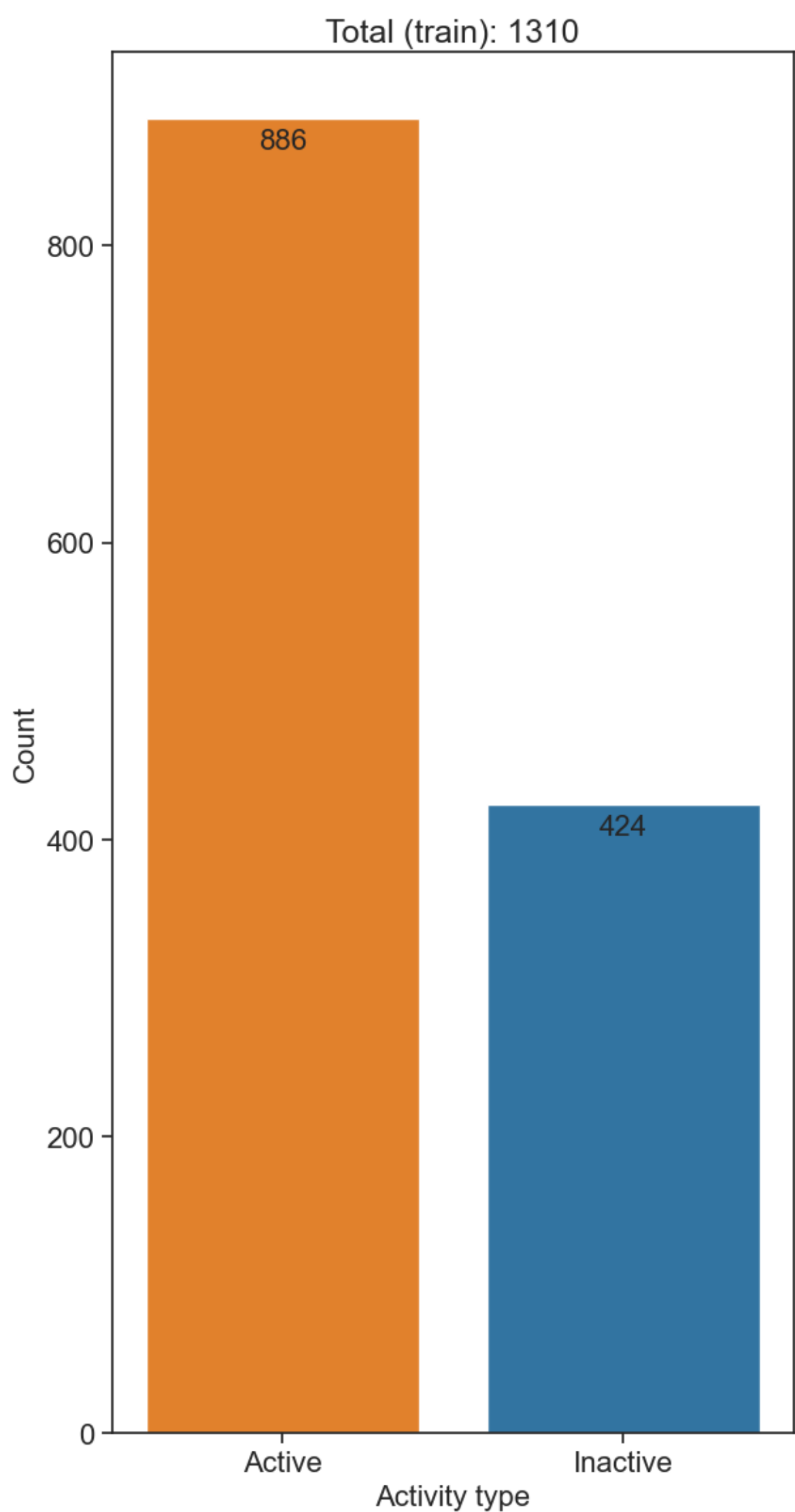


XGBoost Parameters	Value
alpha	1.327
colsample_bytree	0.5251
gamma	0.6341
lambda	1.0749
learning_rate	0.0326
max_depth	7.0
min_child_weight	2.0
n_estimators	448.0
reg_alpha	0.5642
reg_lambda	0.5788
scale_pos_weight	1.3519
subsample	0.5896

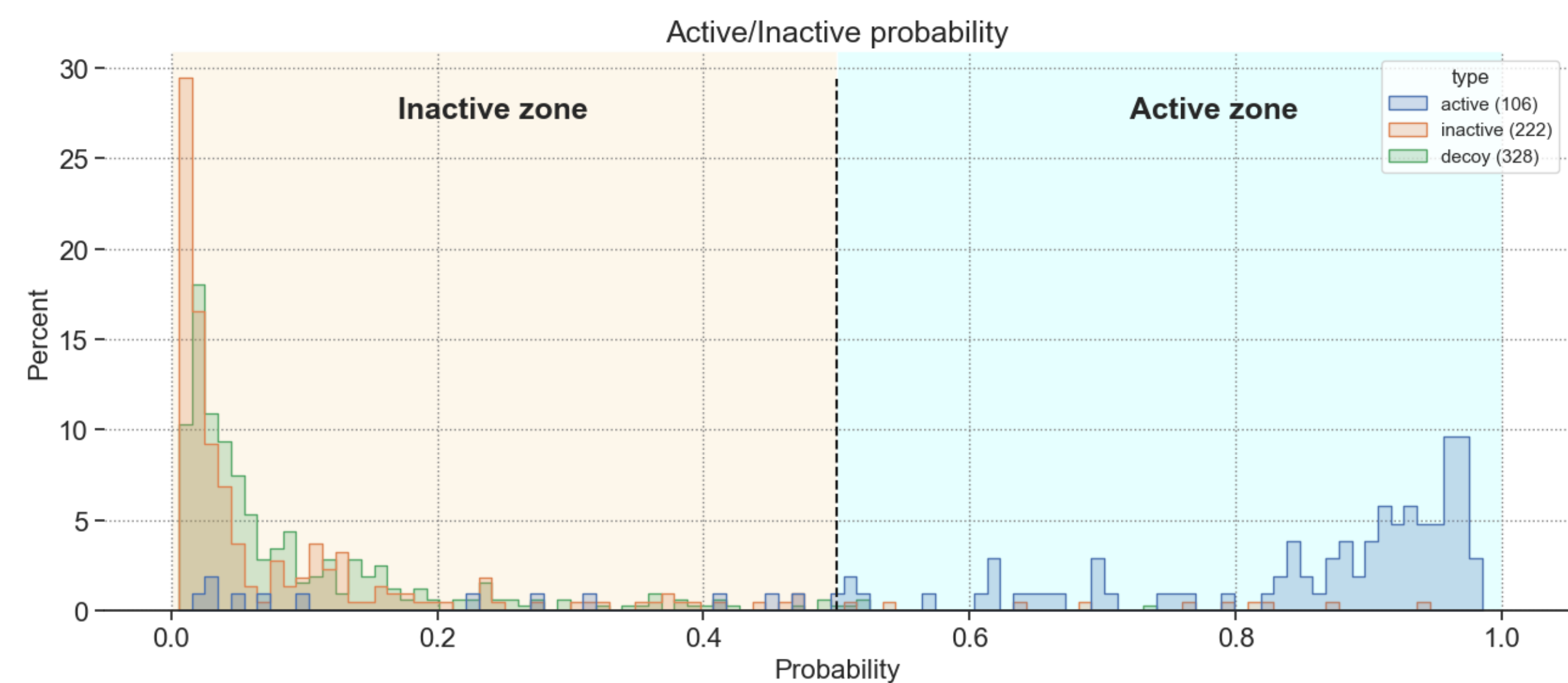
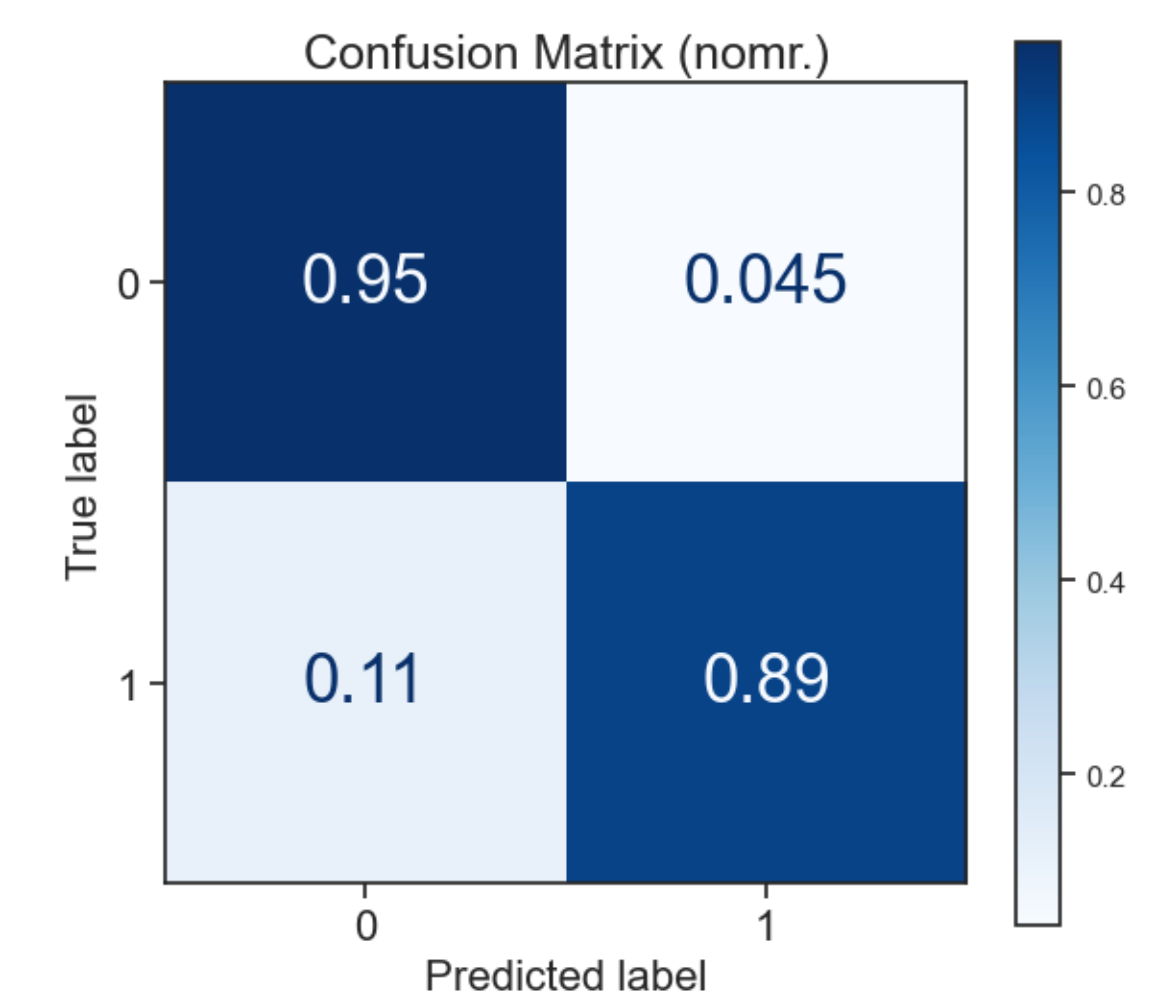
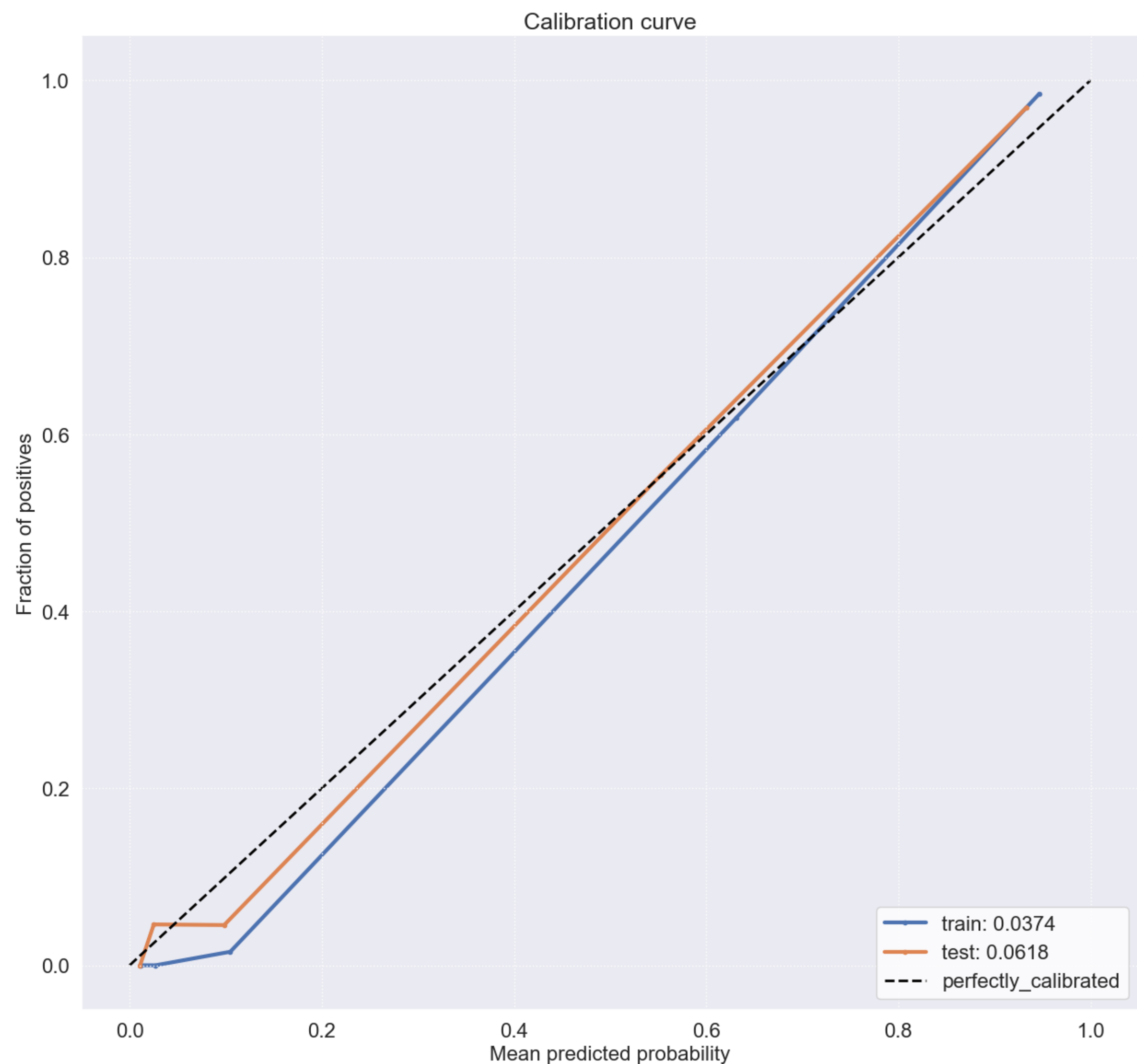
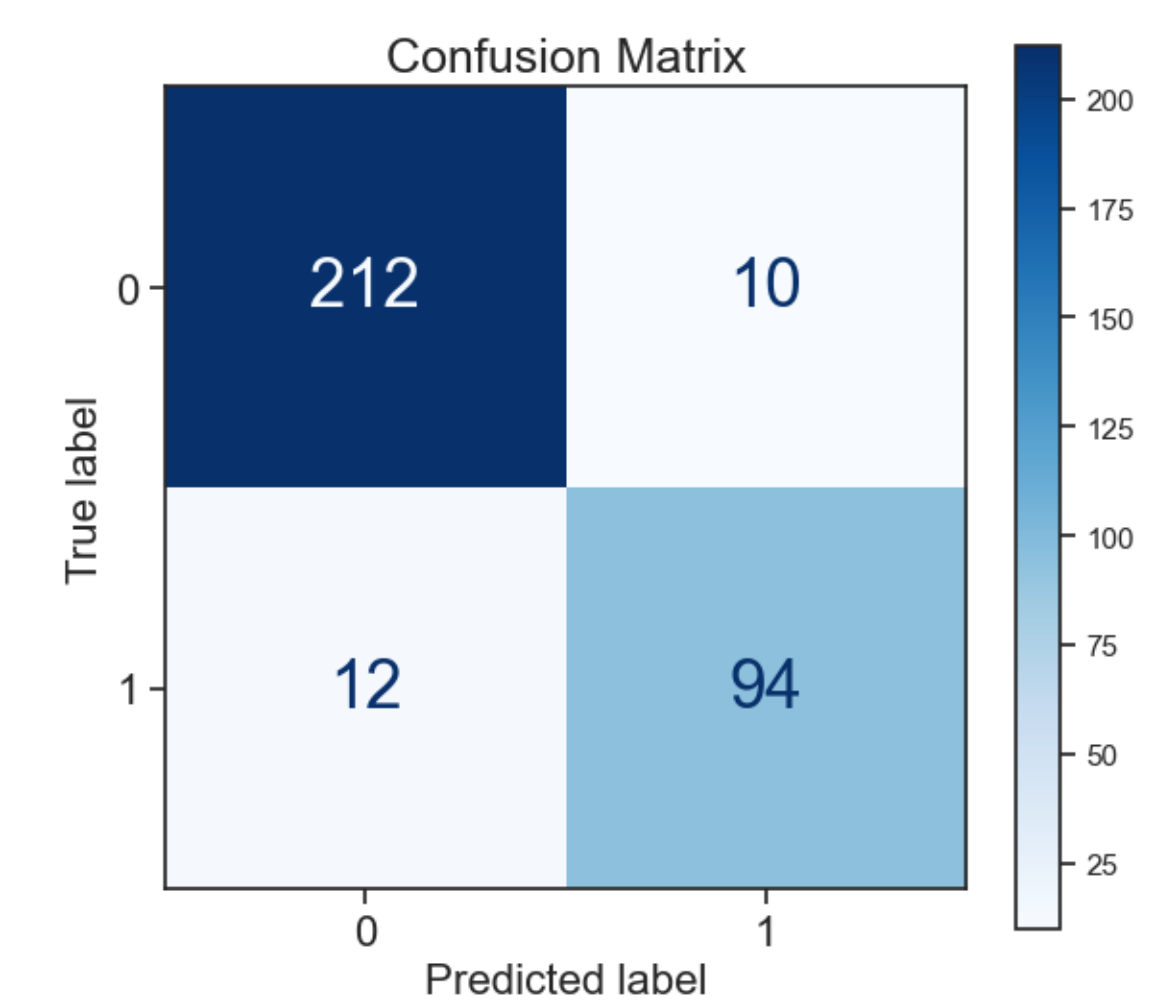


Metric	Train	Test
AUC	0.9909	0.9646
accuracy	0.9588	0.9329
balanced accuracy	0.9566	0.9184
recall_(sens)	0.9505	0.8774
specificity	0.9628	0.9595
precision	0.9243	0.9118
f1_score	0.9589	0.9326

Protein: Q92542 - metric: precision

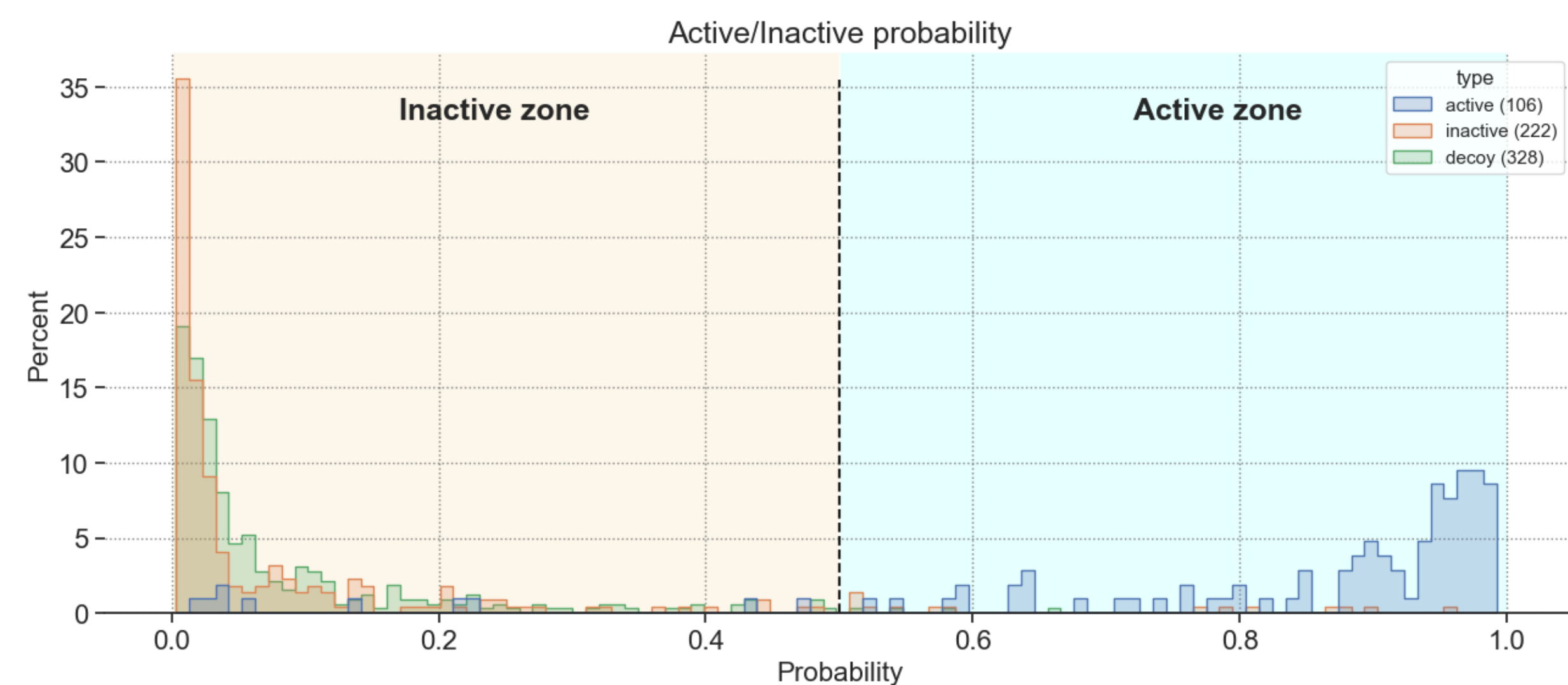
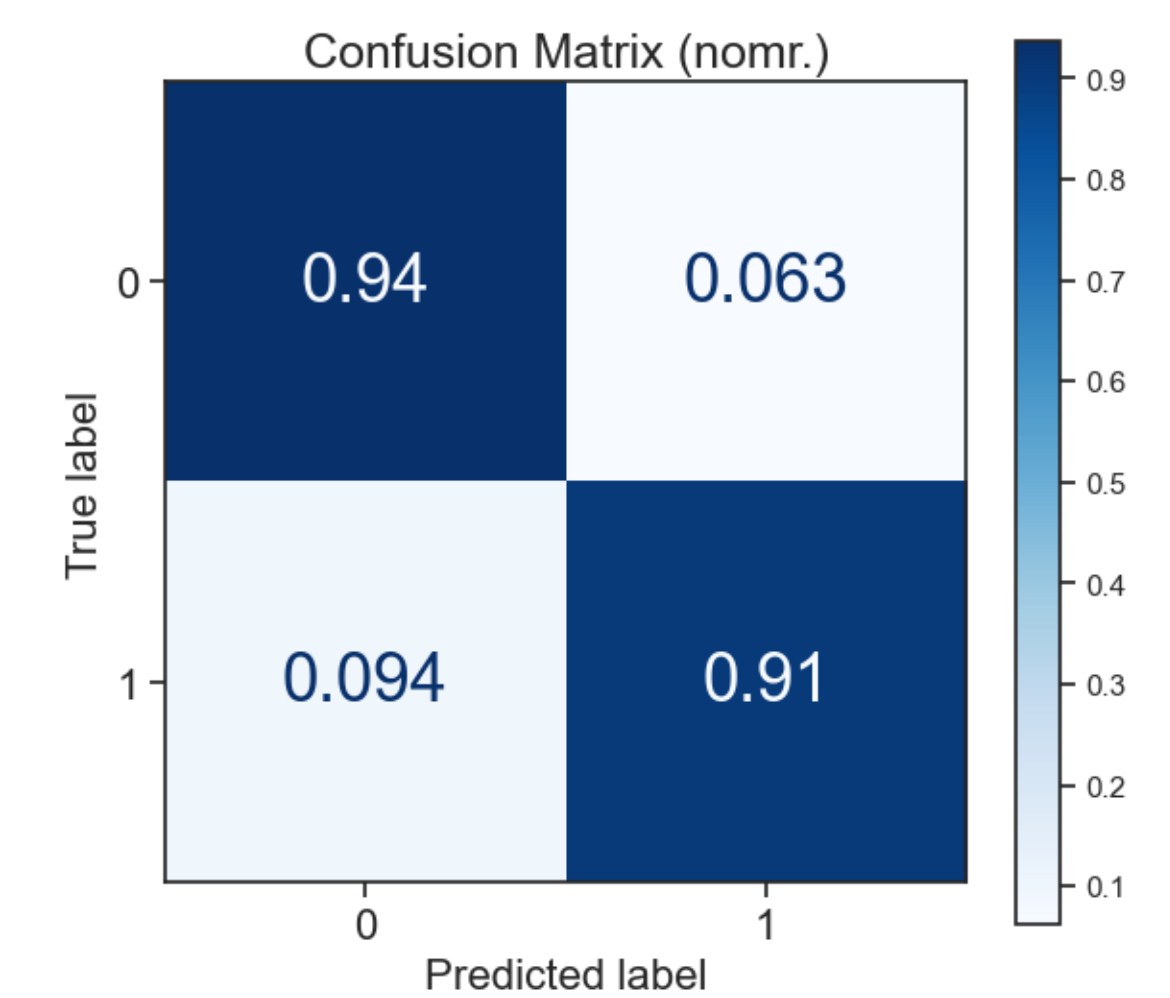
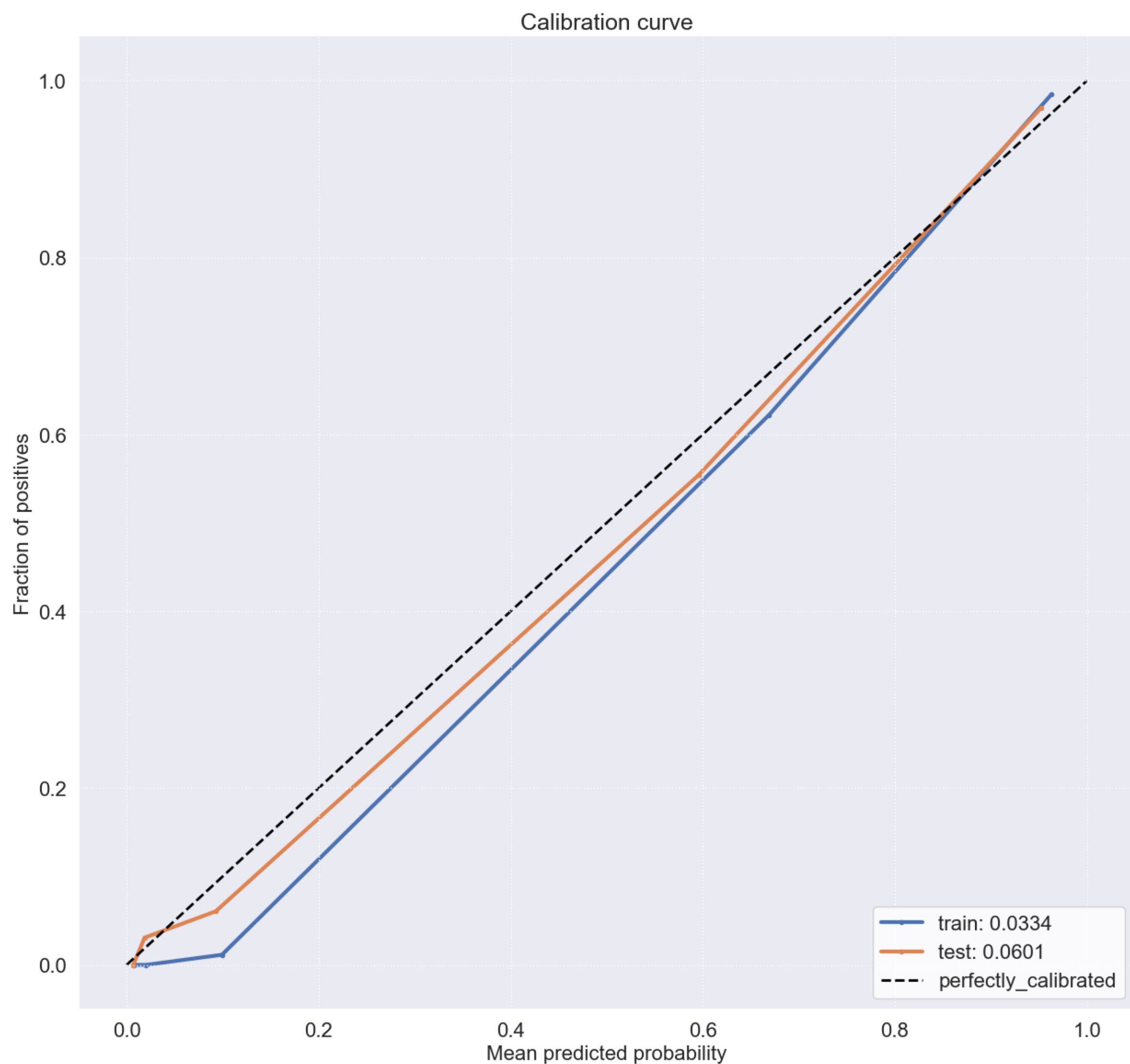
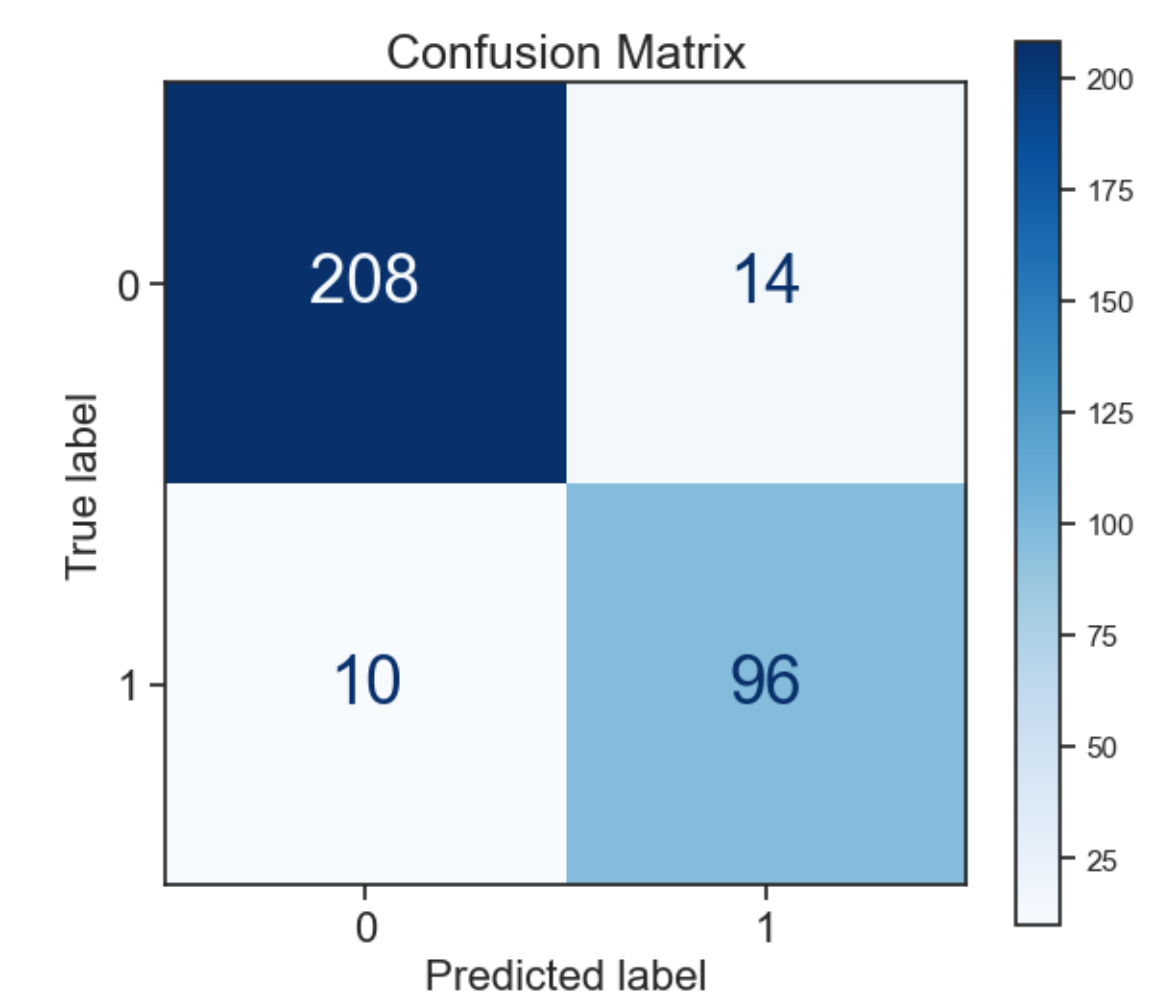
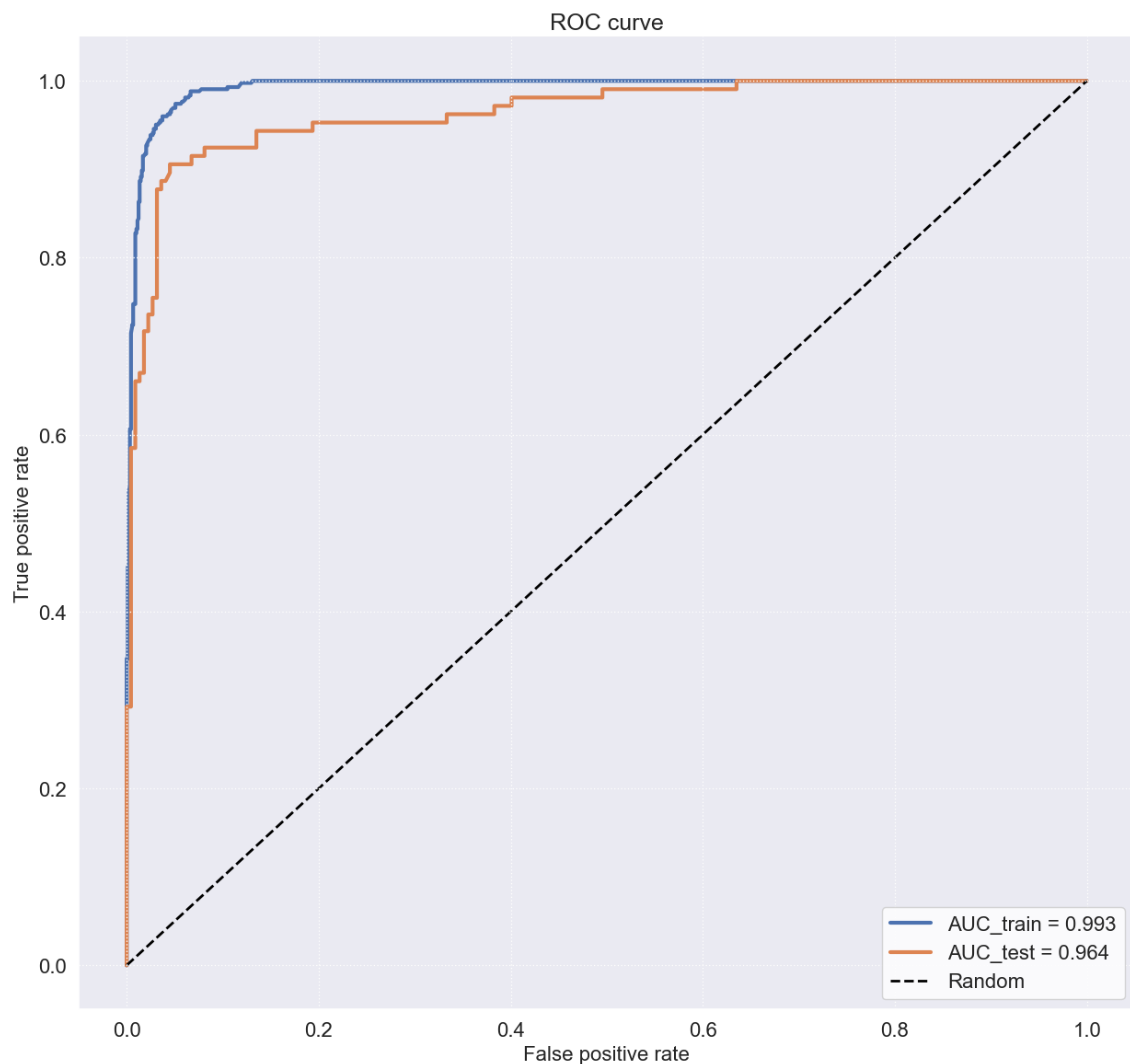
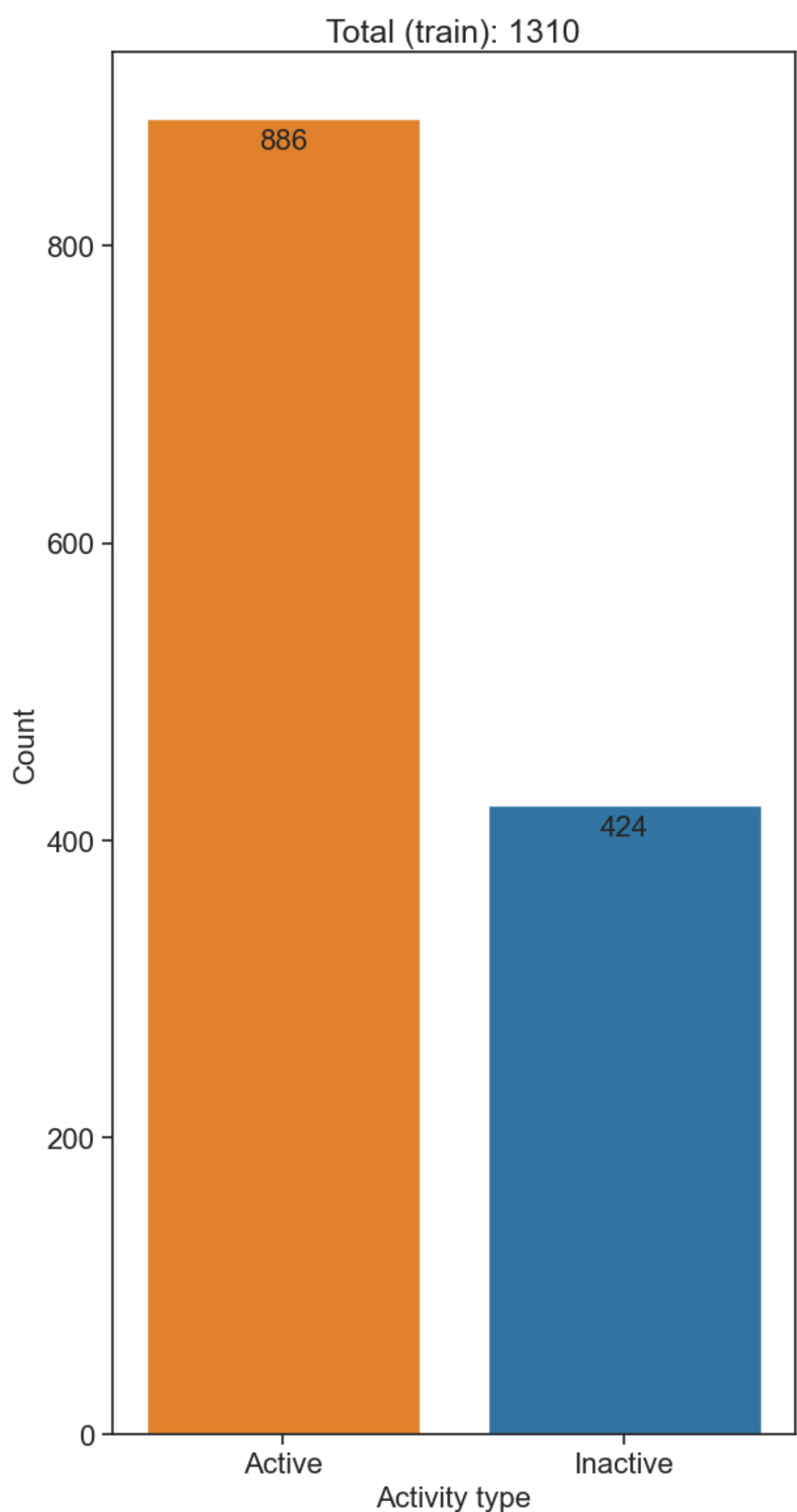


XGBoost Parameters	Value
alpha	3.9379
colsample_bytree	0.8561
gamma	0.9512
lambda	2.1628
learning_rate	0.0346
max_depth	9.0
min_child_weight	1.0
n_estimators	199.0
reg_alpha	0.6756
reg_lambda	0.993
scale_pos_weight	1.5361
subsample	0.5421



Metric	Train	Test
AUC	0.9904	0.9614
accuracy	0.9534	0.9329
balanced accuracy	0.9514	0.9209
recall_(sens)	0.9458	0.8868
specificity	0.9571	0.955
precision	0.9134	0.9038
f1_score	0.9536	0.9328

Protein: Q92542 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9928	0.9641
accuracy	0.9565	0.9268
balanced accuracy	0.9598	0.9213
recall_(sens)	0.9693	0.9057
specificity	0.9503	0.9369
precision	0.9033	0.8727
f1_score	0.9569	0.9272