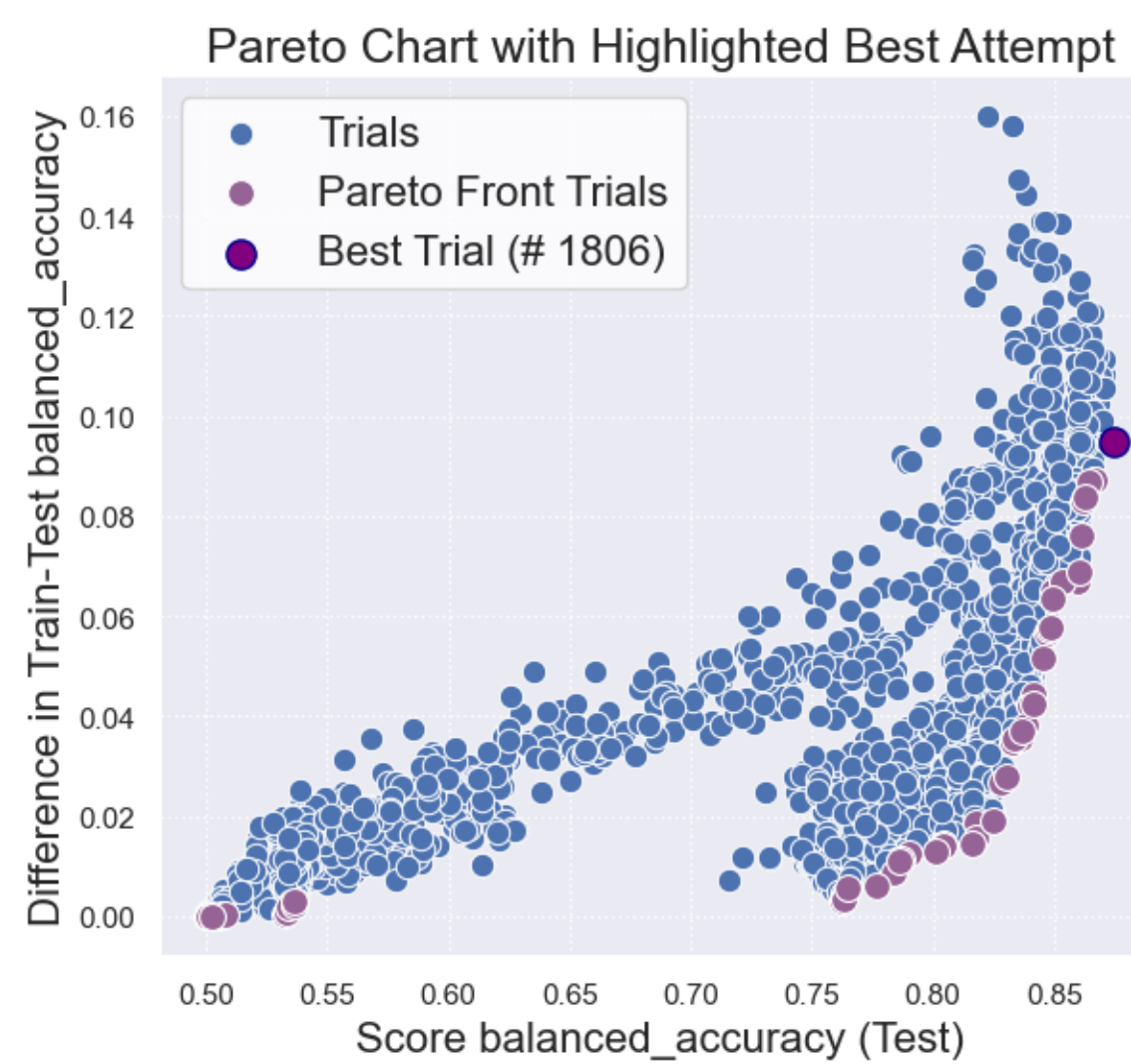
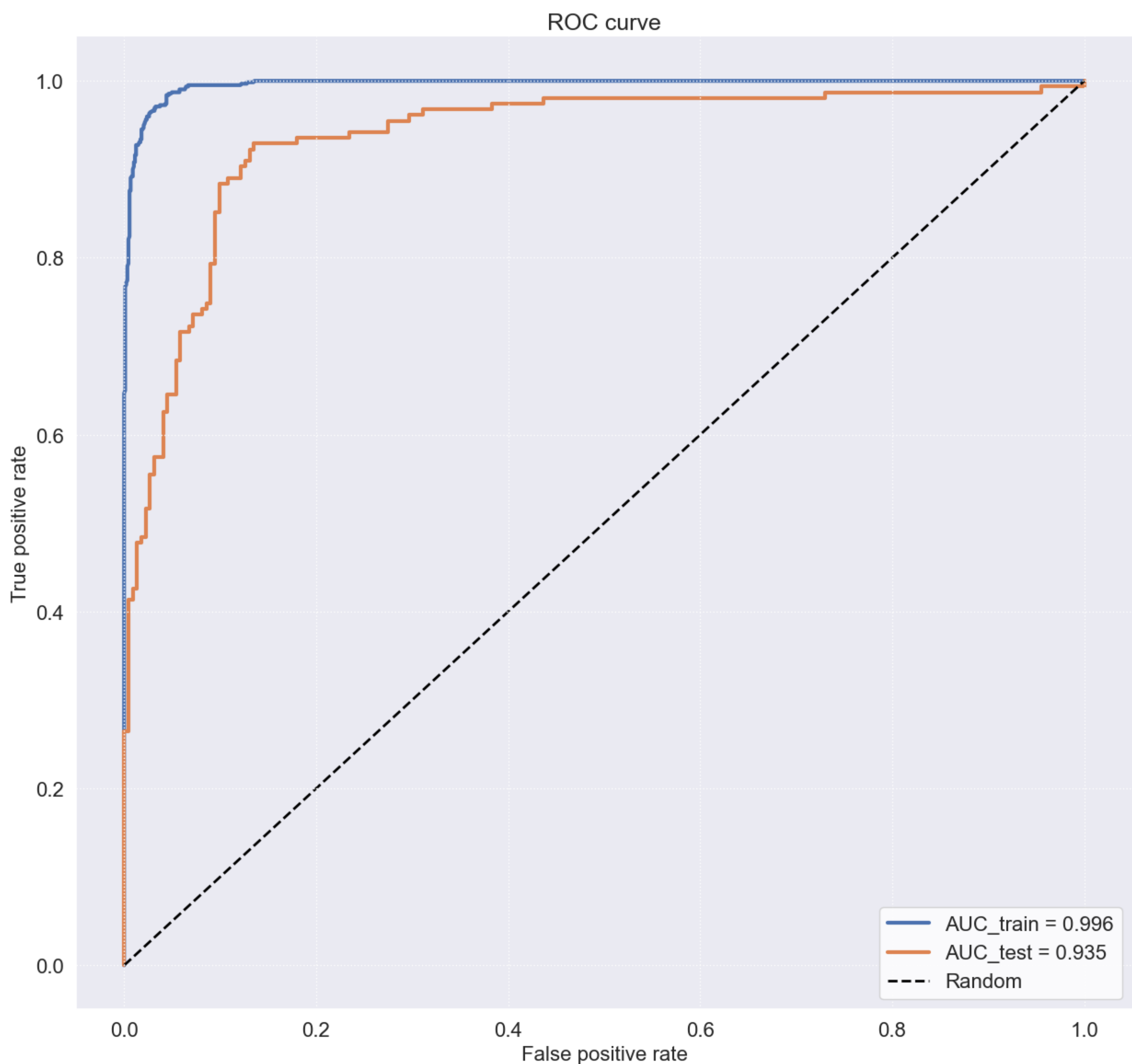
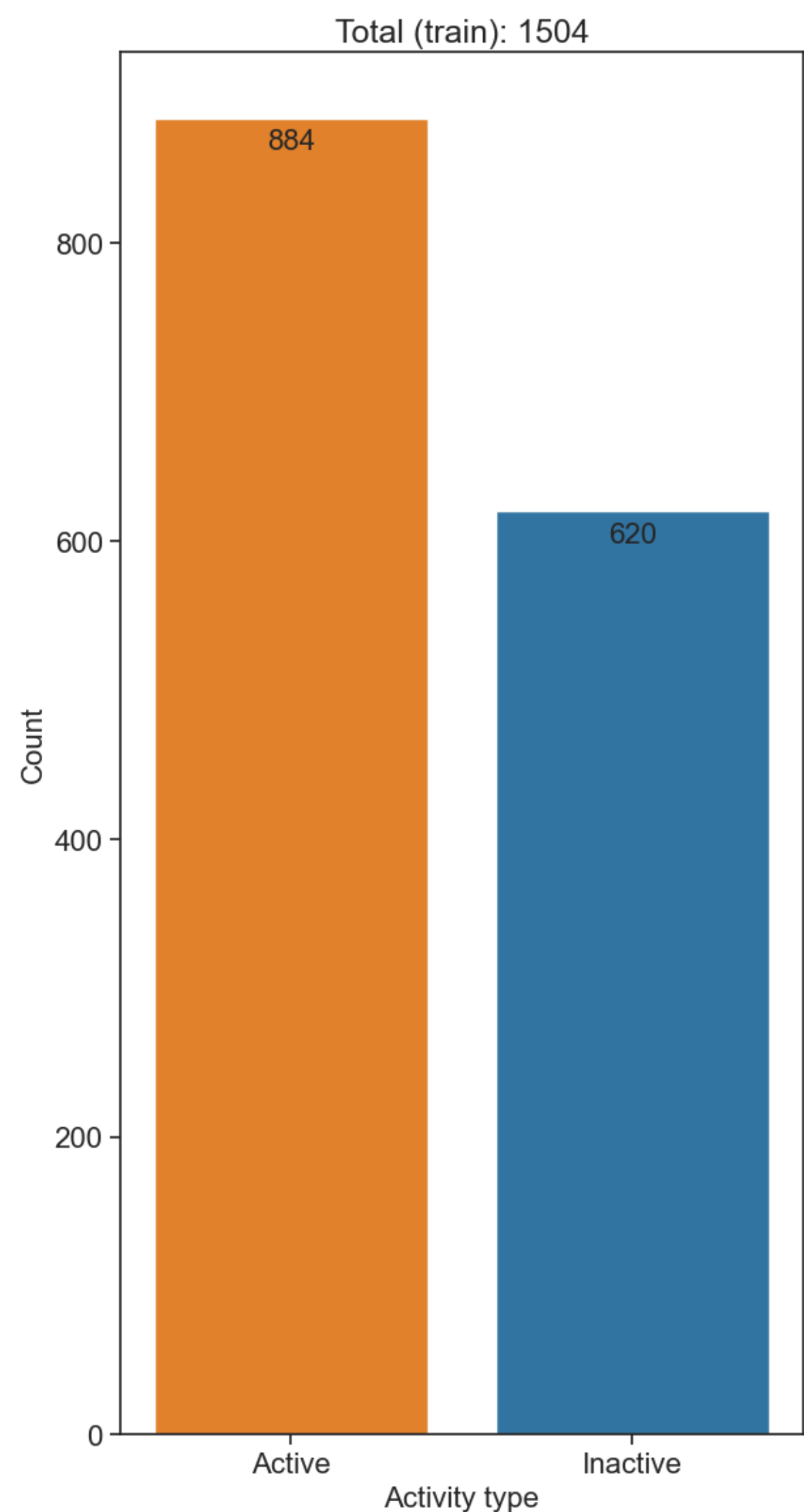
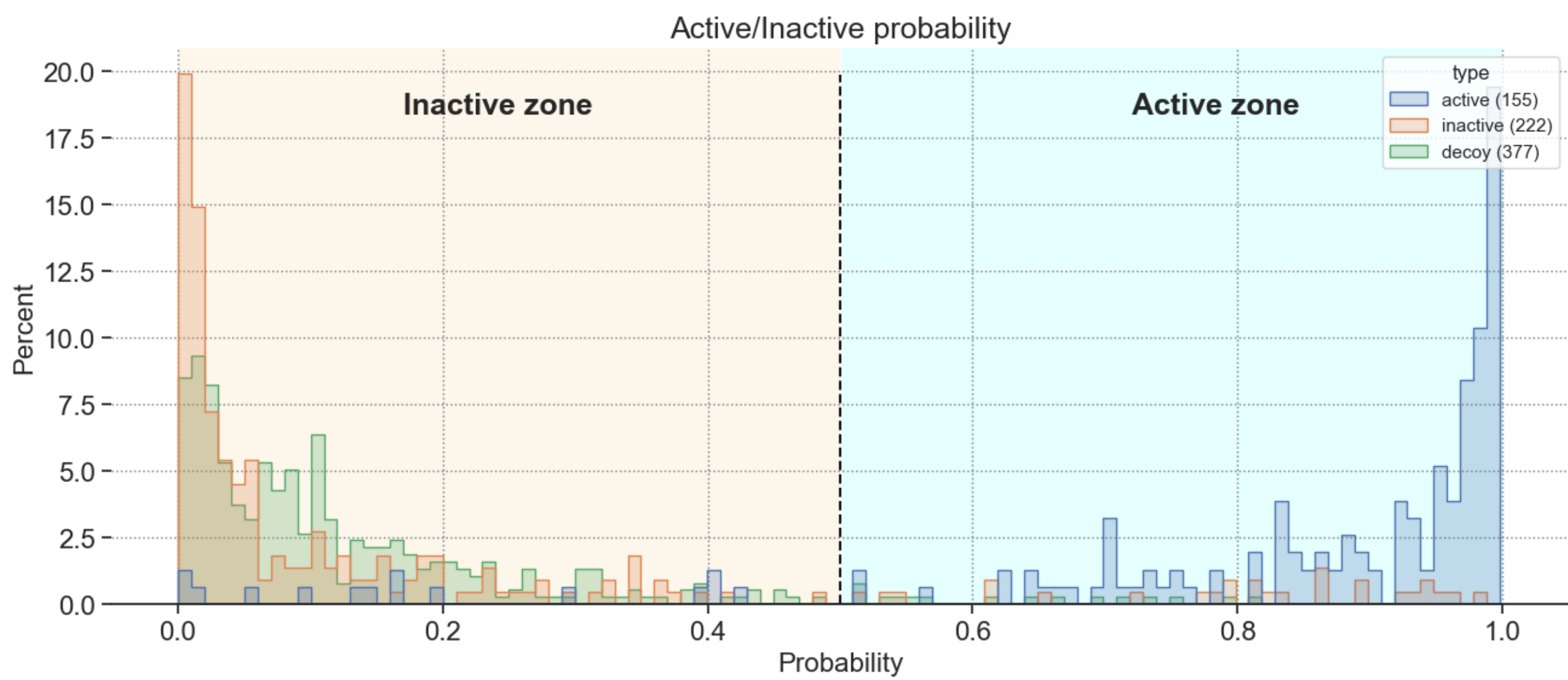
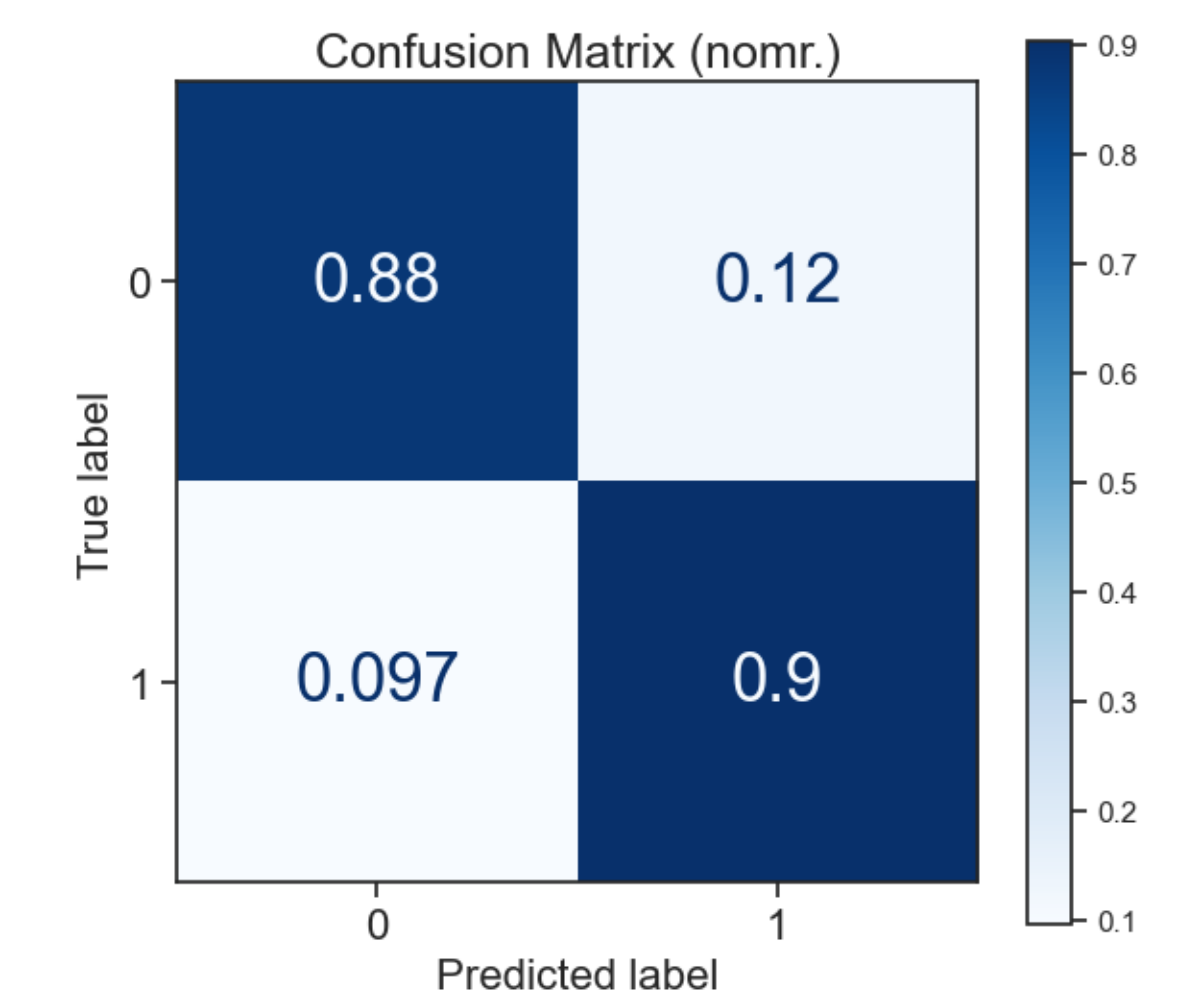
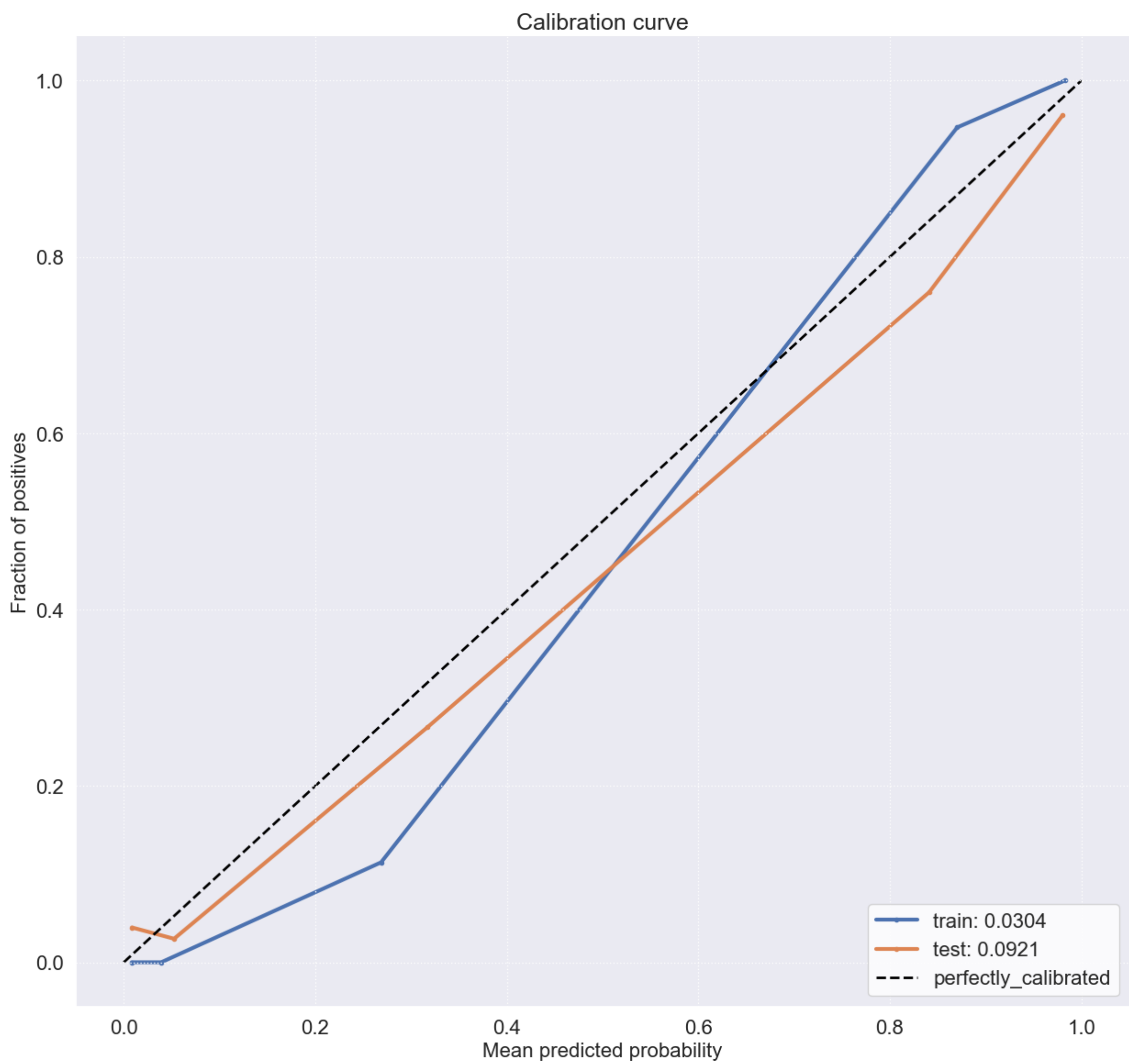
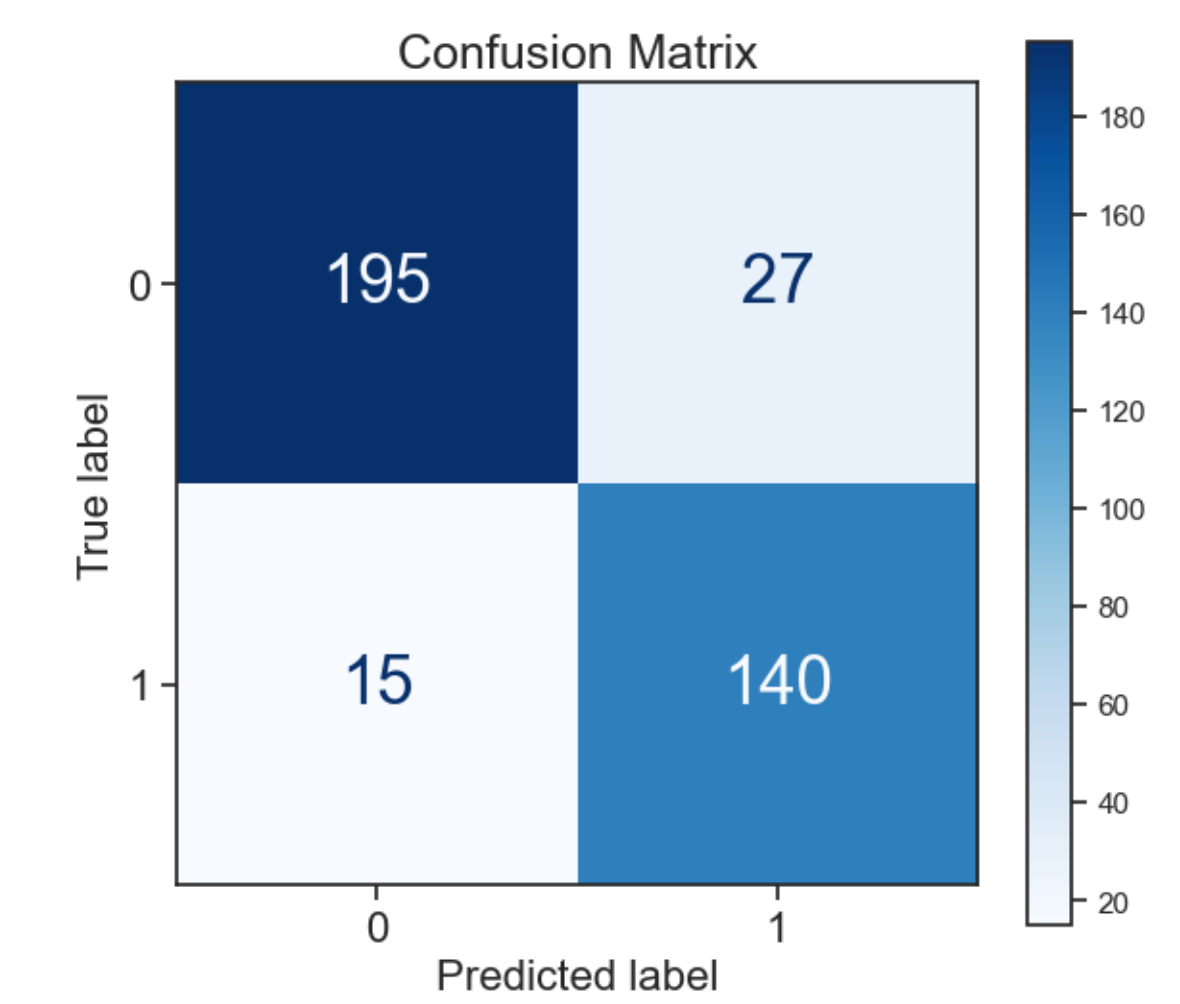


Protein: Q07869 - metric: balanced\_accuracy



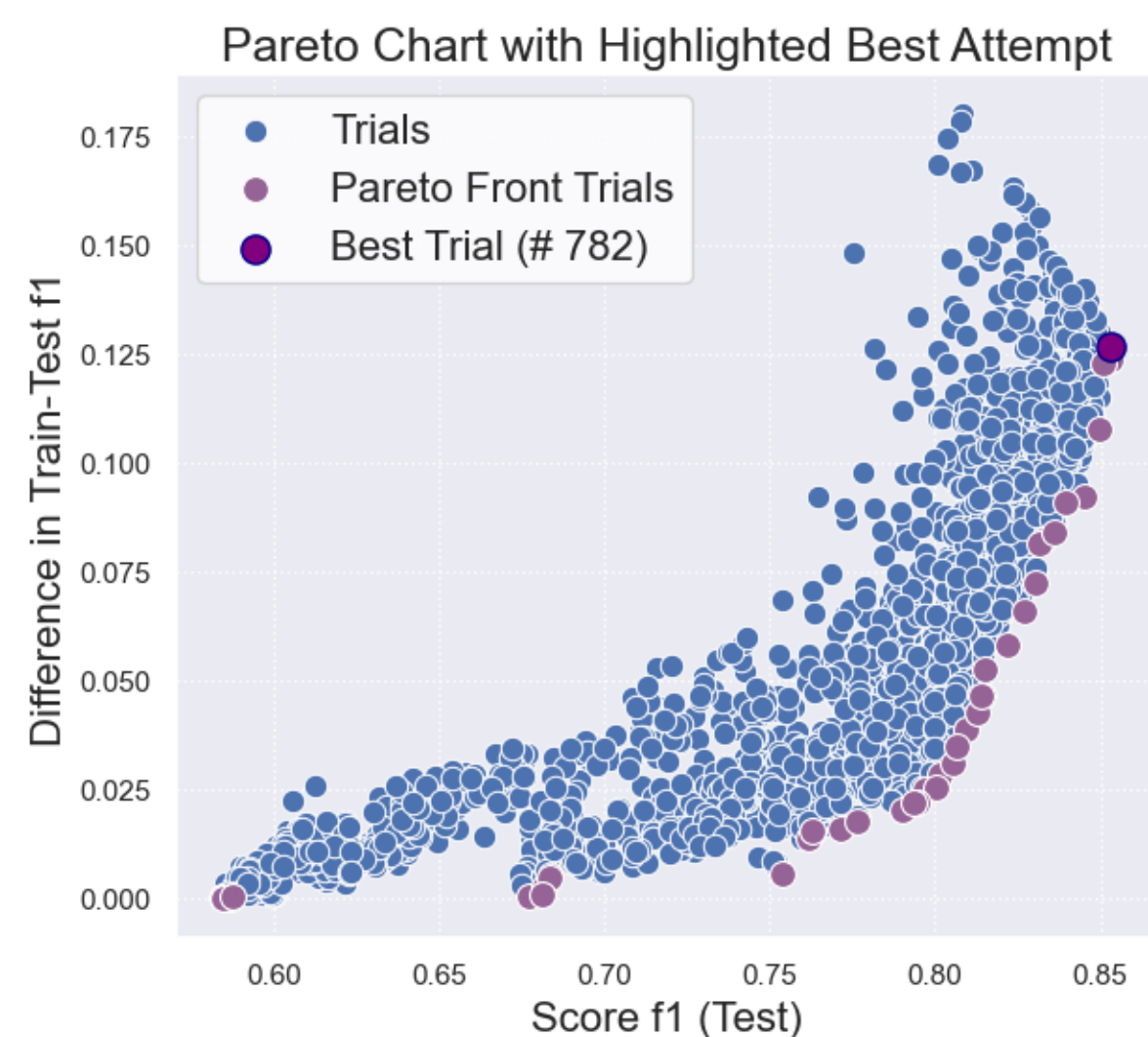
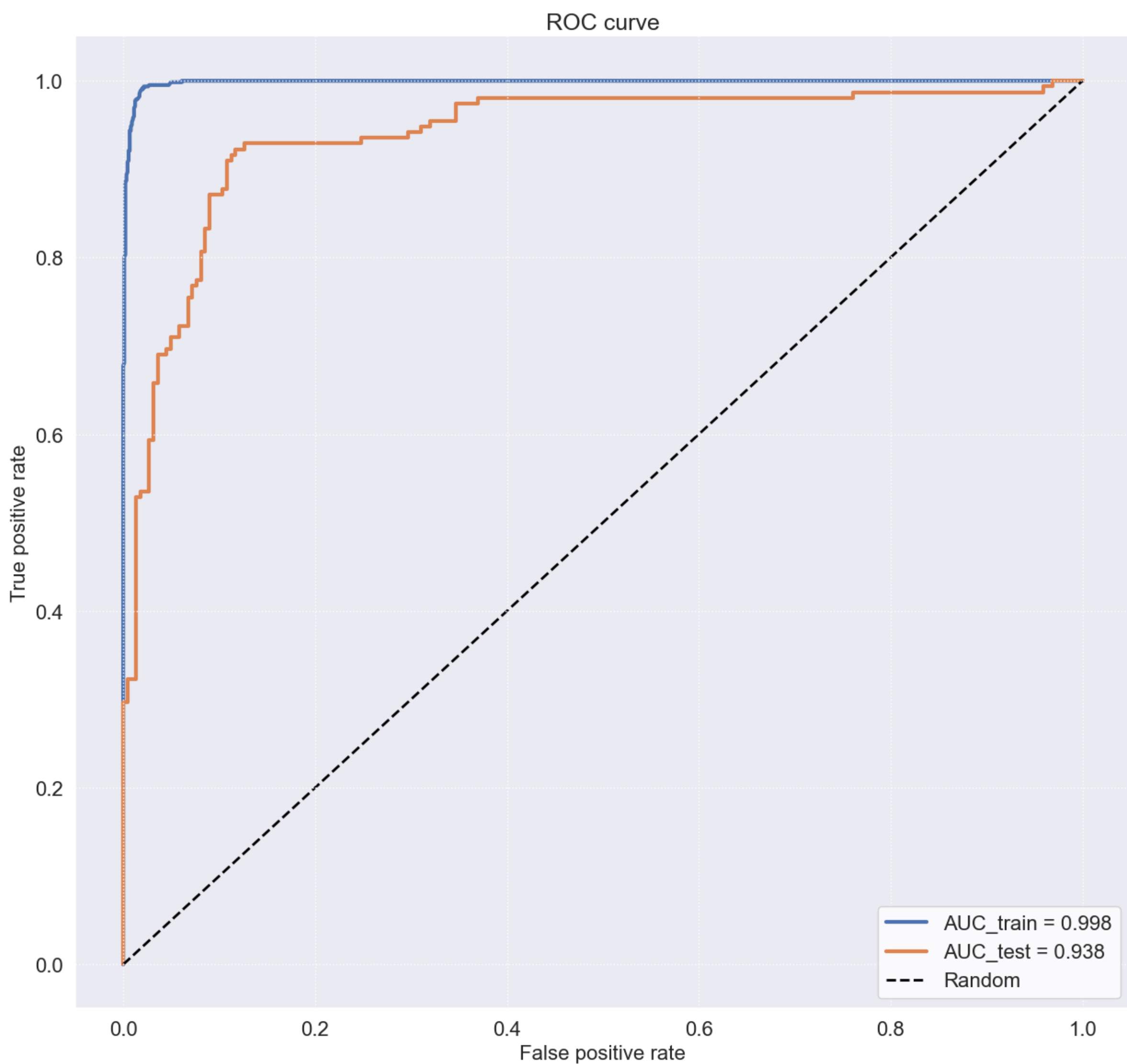
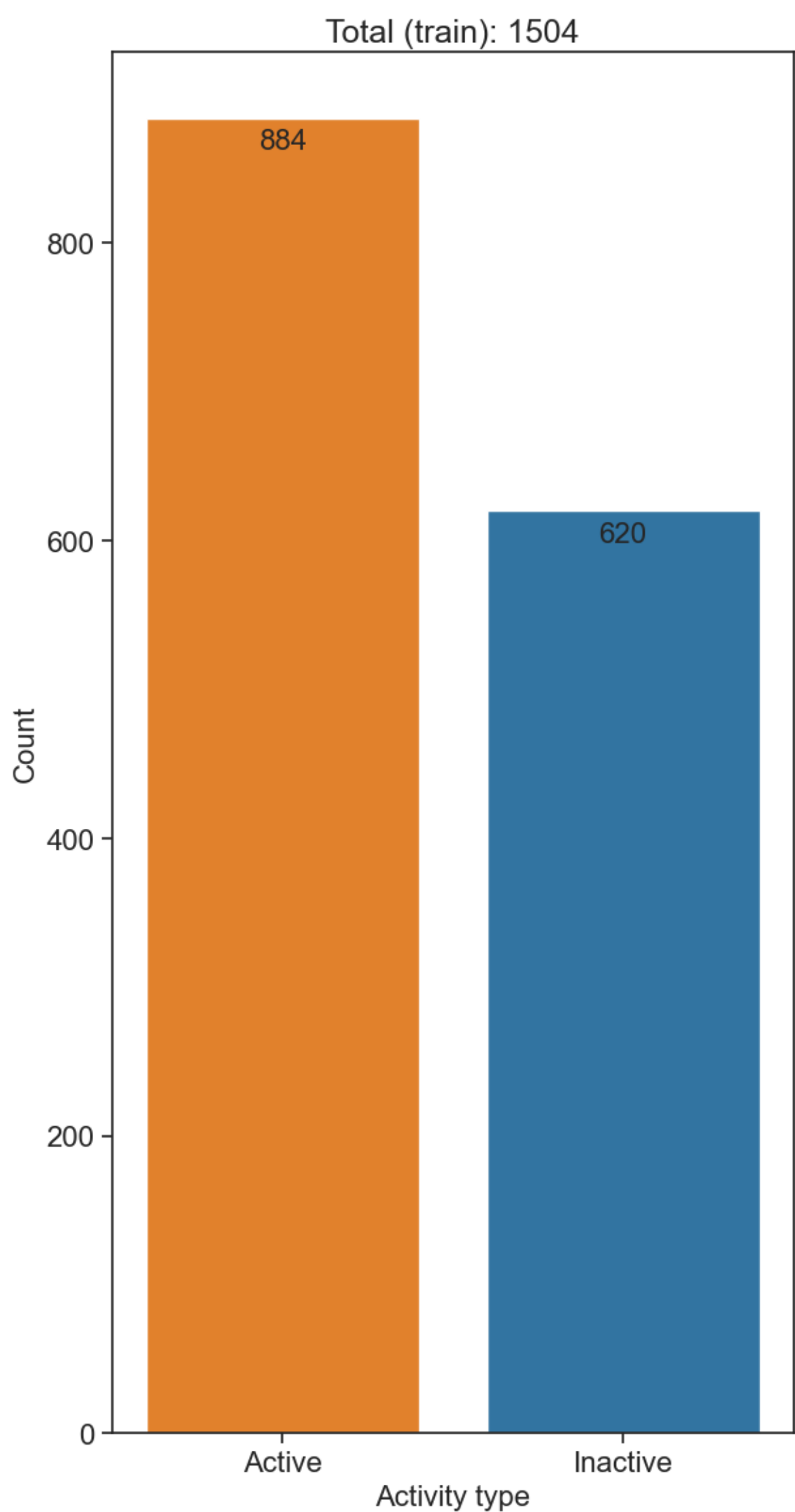
XGBoost Parameters	Value
alpha	3.8932
colsample_bytree	0.8901
gamma	0.0346
lambda	1.7306
learning_rate	0.0416
max_depth	10.0
min_child_weight	3.0
n_estimators	635.0
reg_alpha	0.7349
reg_lambda	0.0227
scale_pos_weight	1.6153
subsample	0.5057



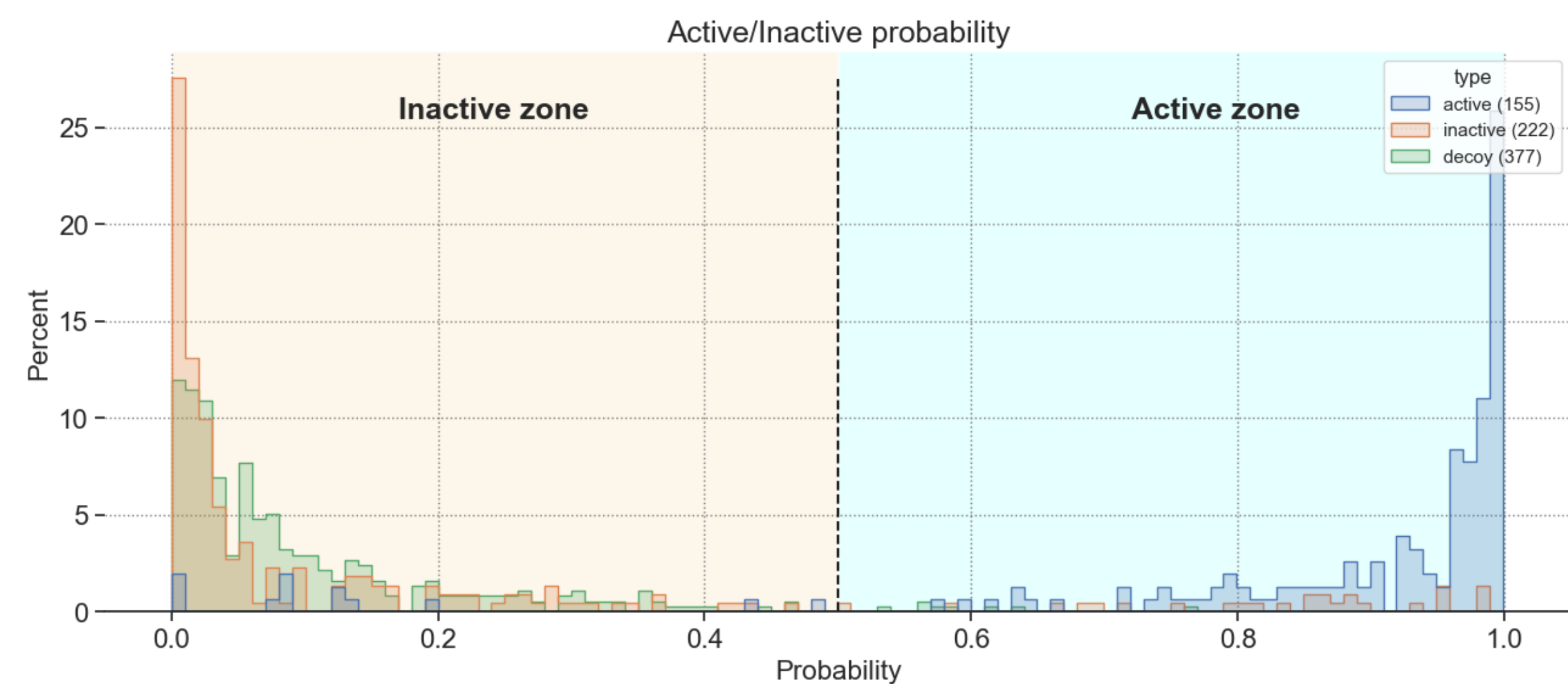
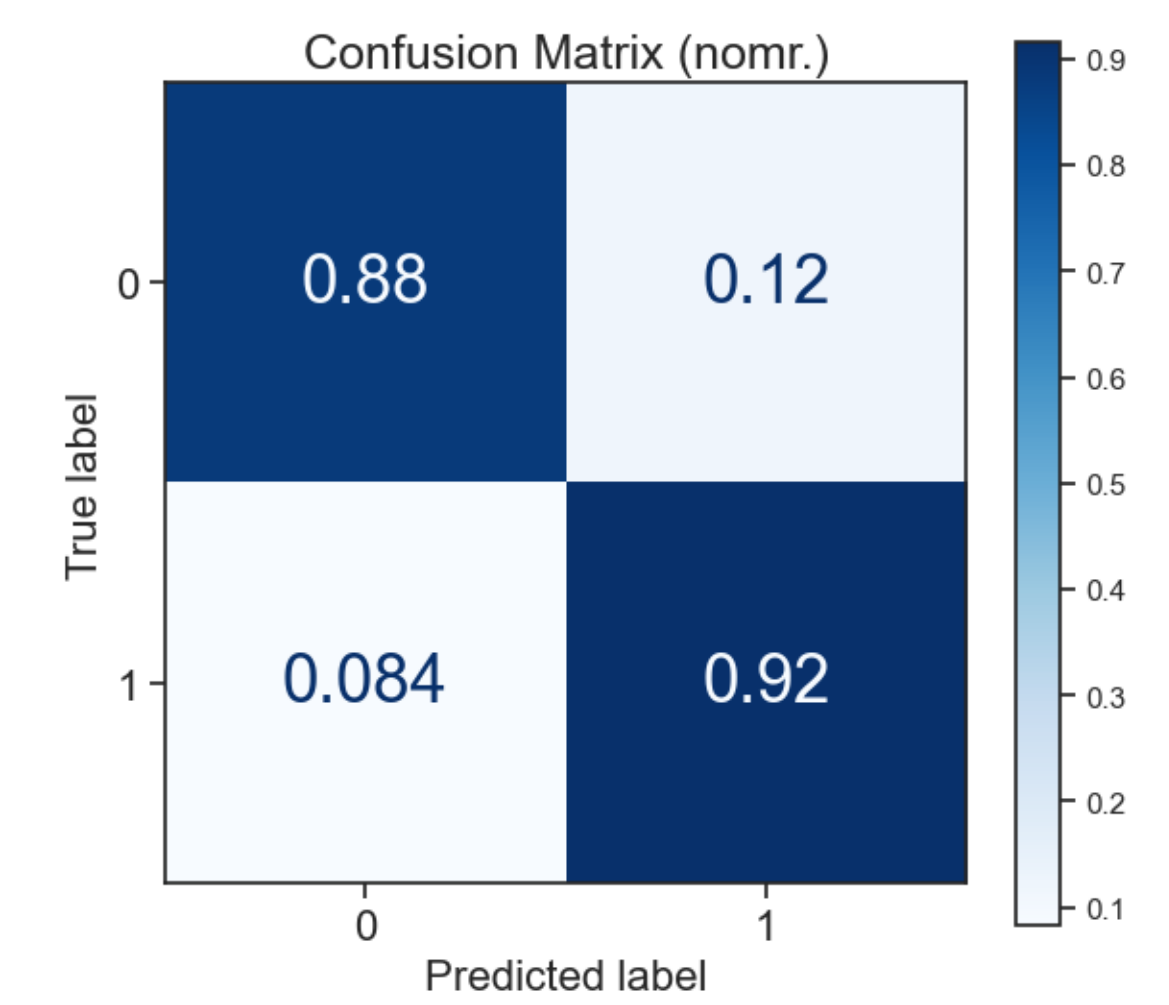
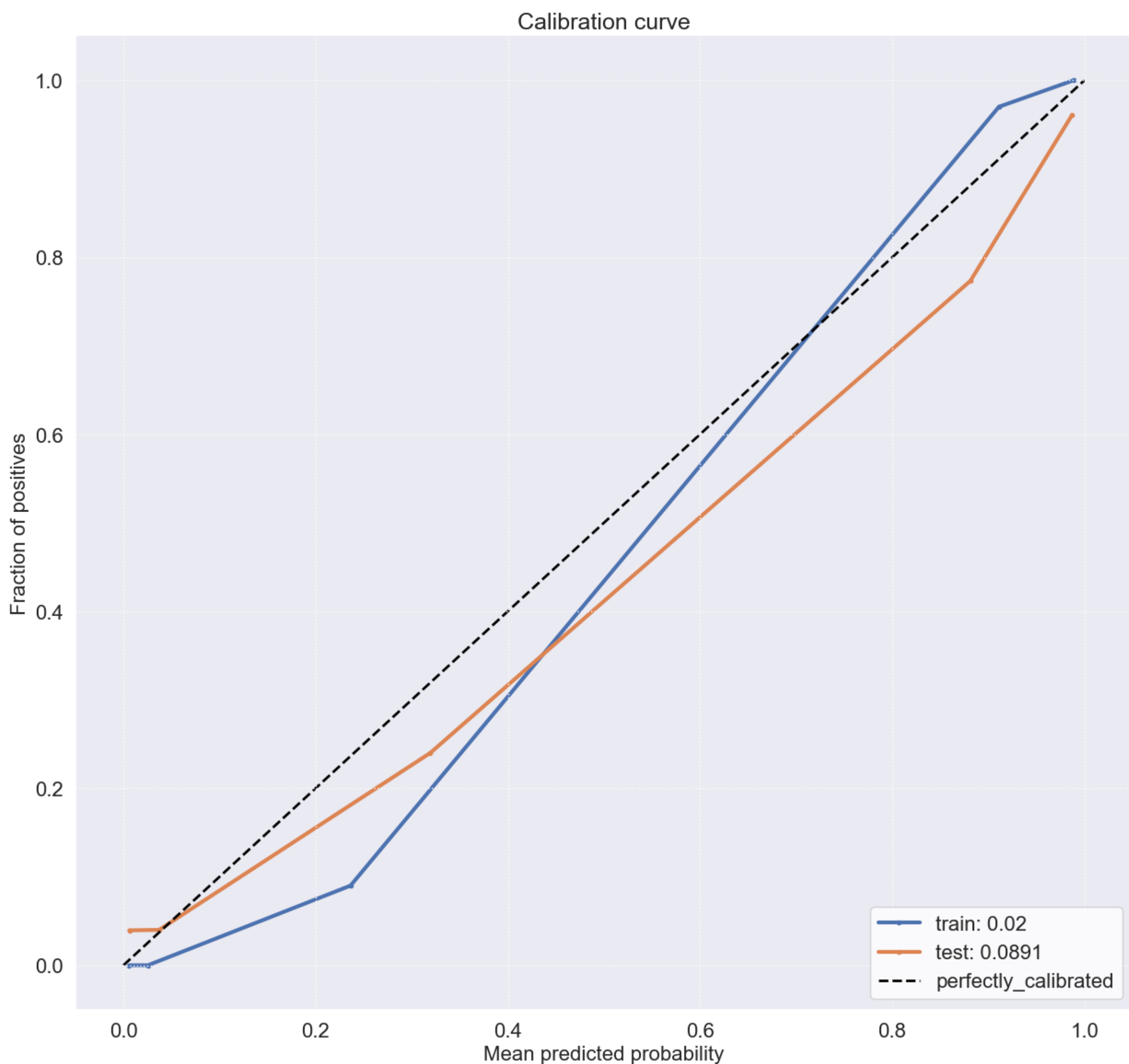
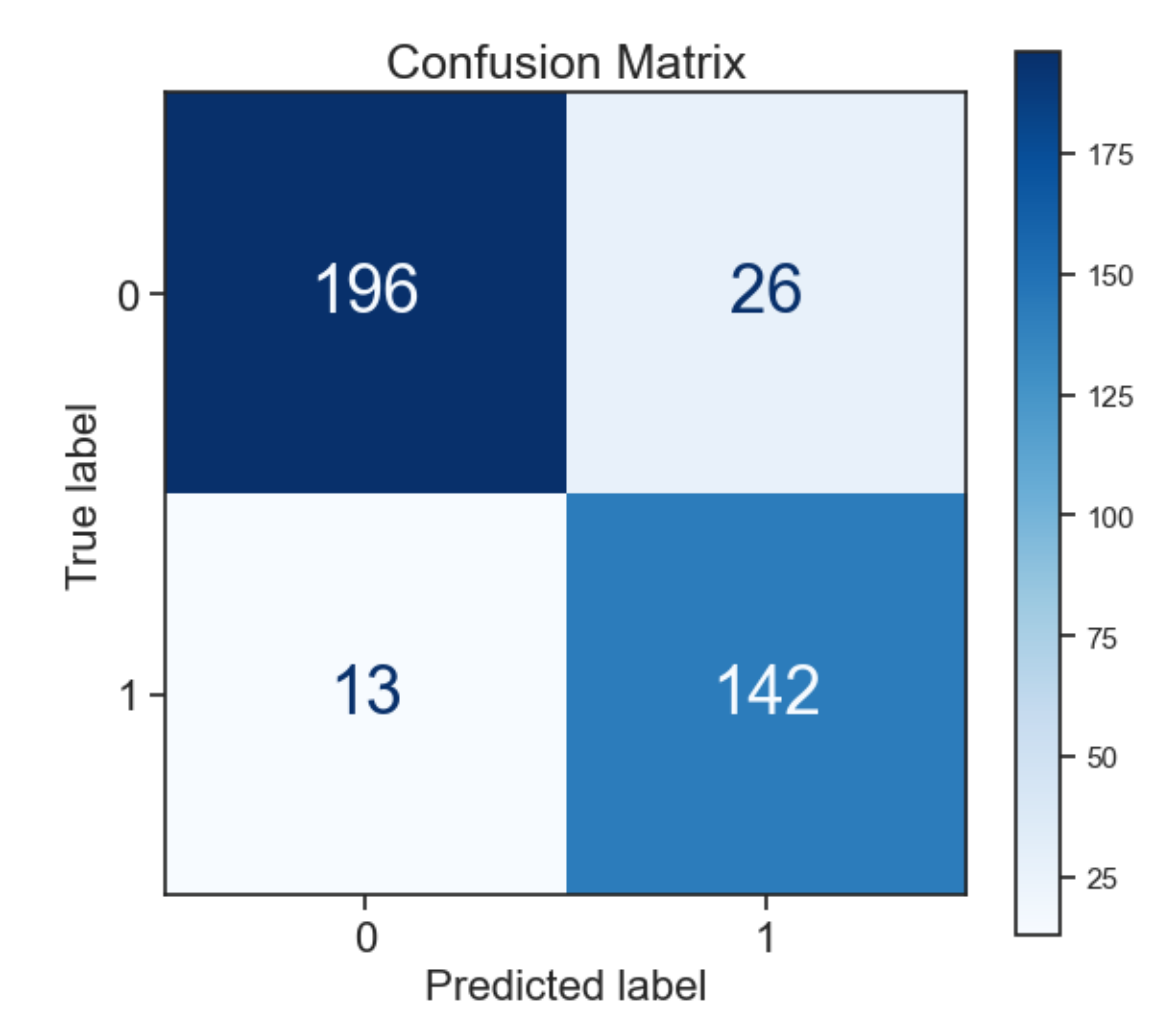
Metric	Train	Test
AUC	0.9961	0.9355
accuracy	0.9661	0.8886
balanced accuracy	0.9683	0.8908
recall_(sens)	0.9806	0.9032
specificity	0.9559	0.8784
precision	0.9397	0.8383
f1_score	0.9662	0.8891



Protein: Q07869 - metric: f1



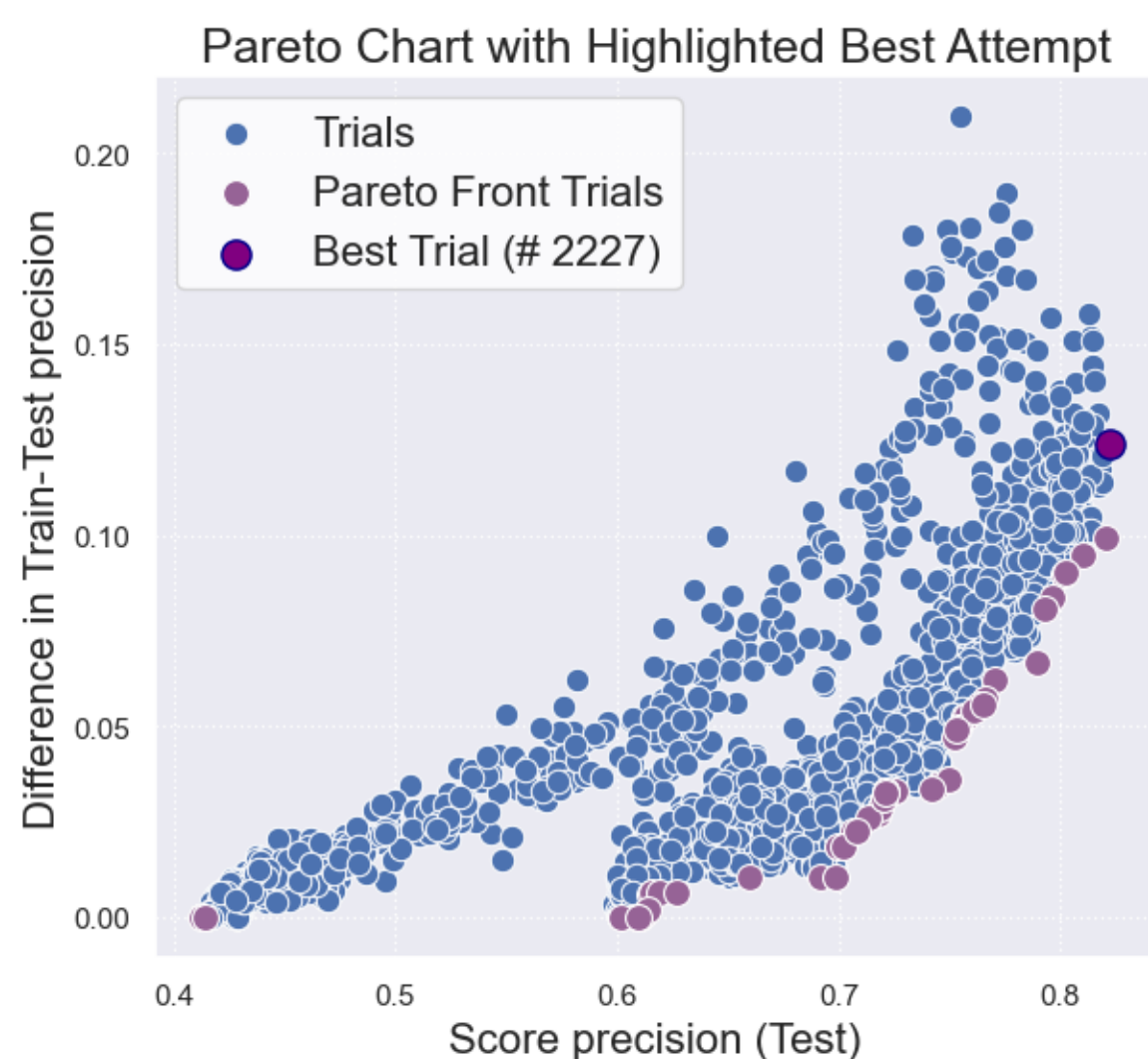
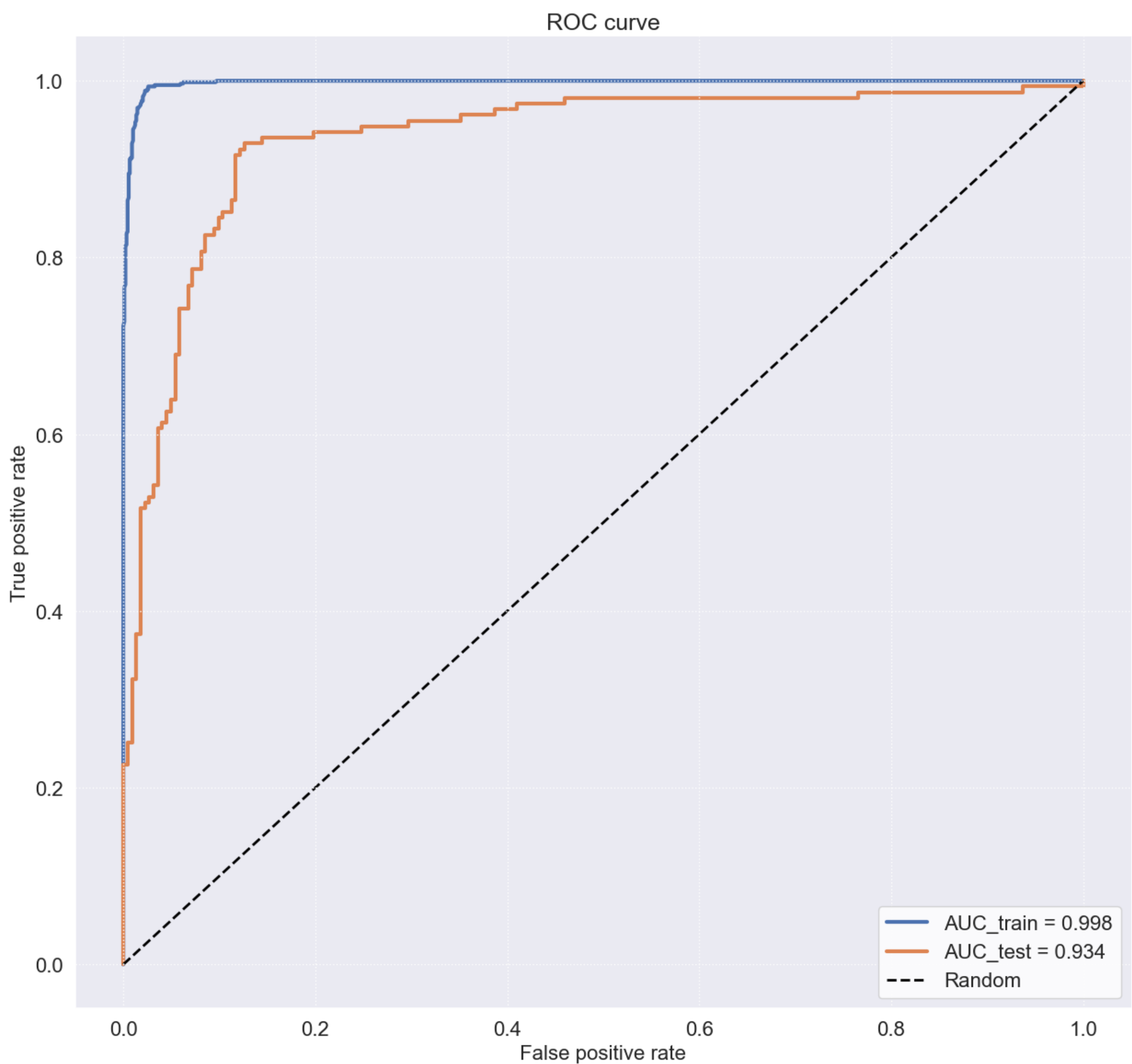
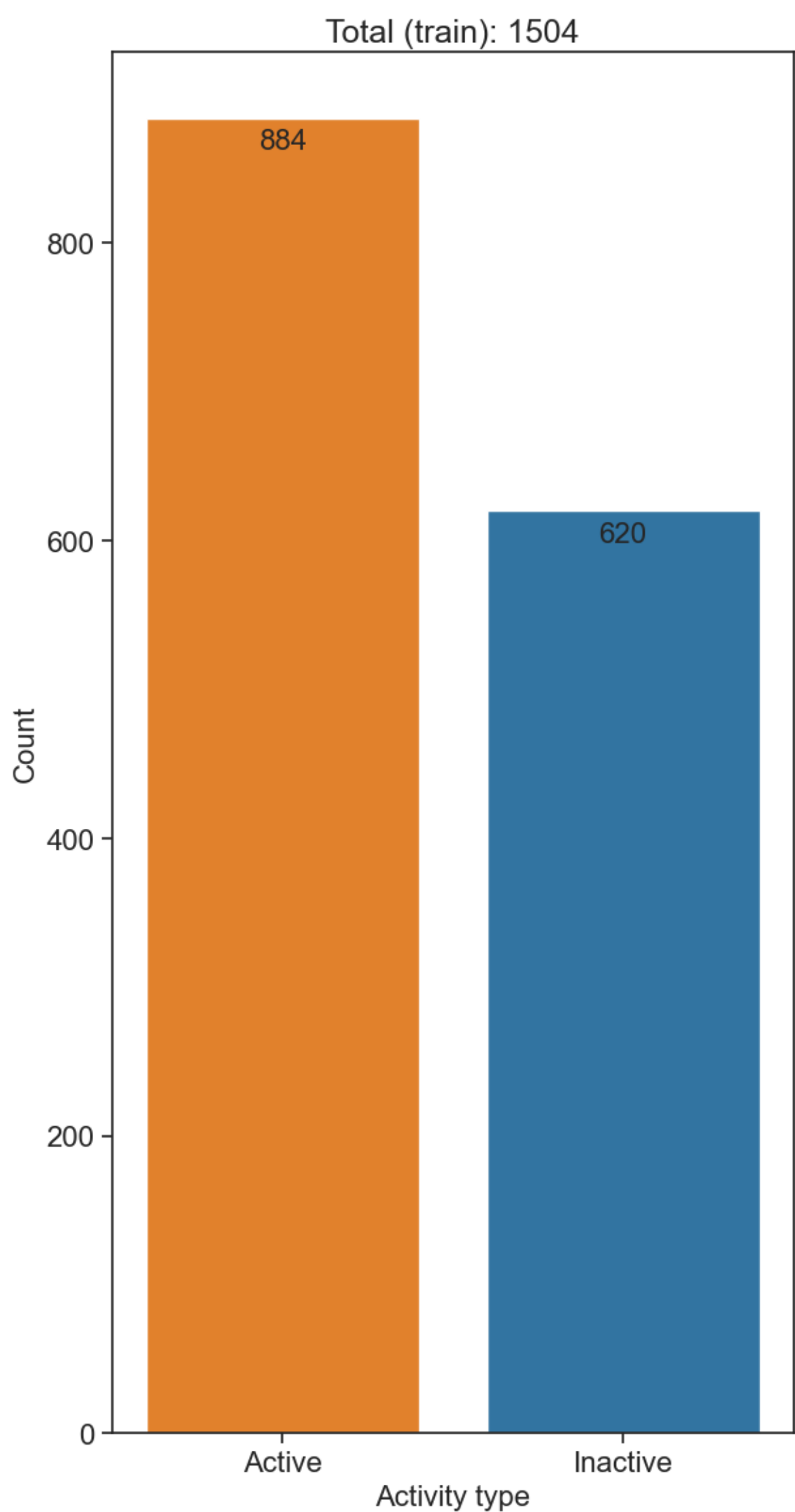
XGBoost Parameters	Value
alpha	2.219
colsample_bytree	0.5377
gamma	0.0037
lambda	3.0693
learning_rate	0.0381
max_depth	9.0
min_child_weight	1.0
n_estimators	604.0
reg_alpha	0.6293
reg_lambda	0.4899
scale_pos_weight	1.9593
subsample	0.649



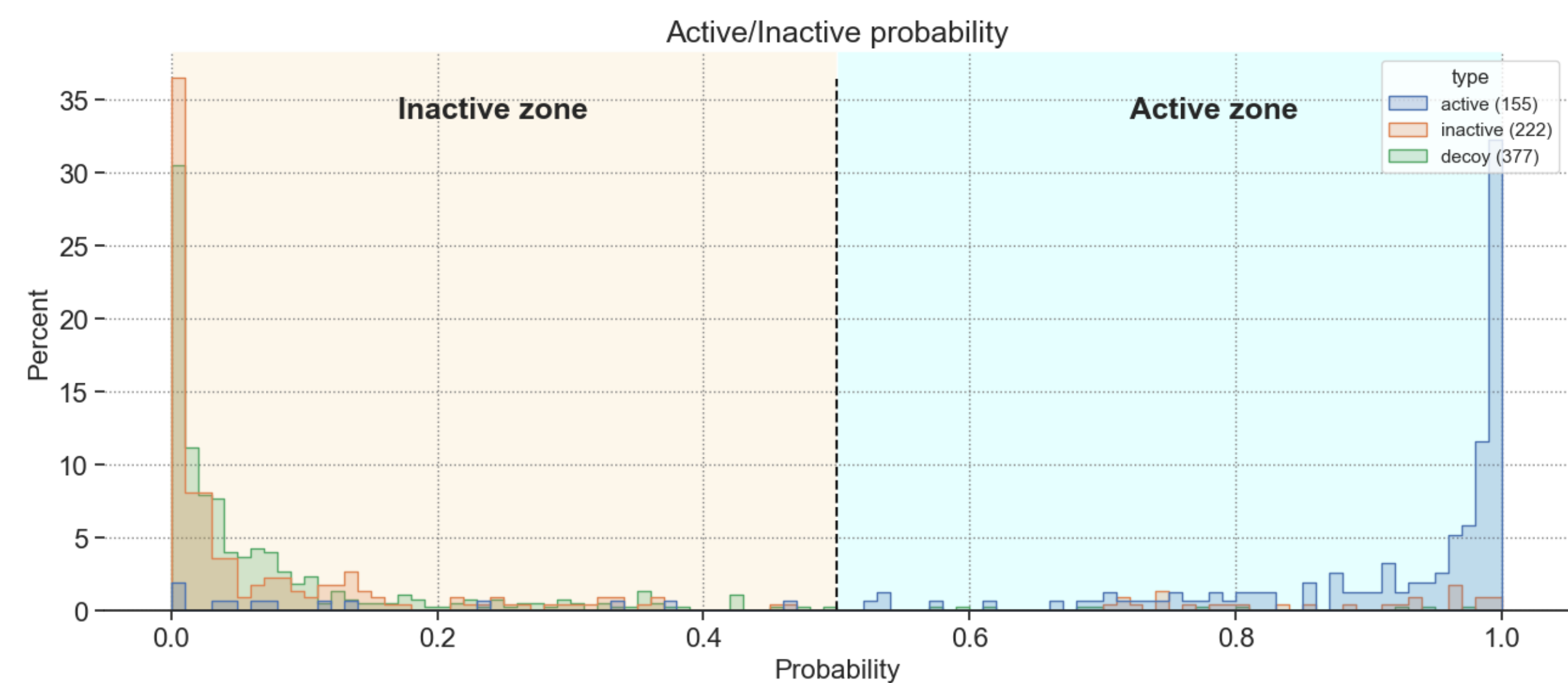
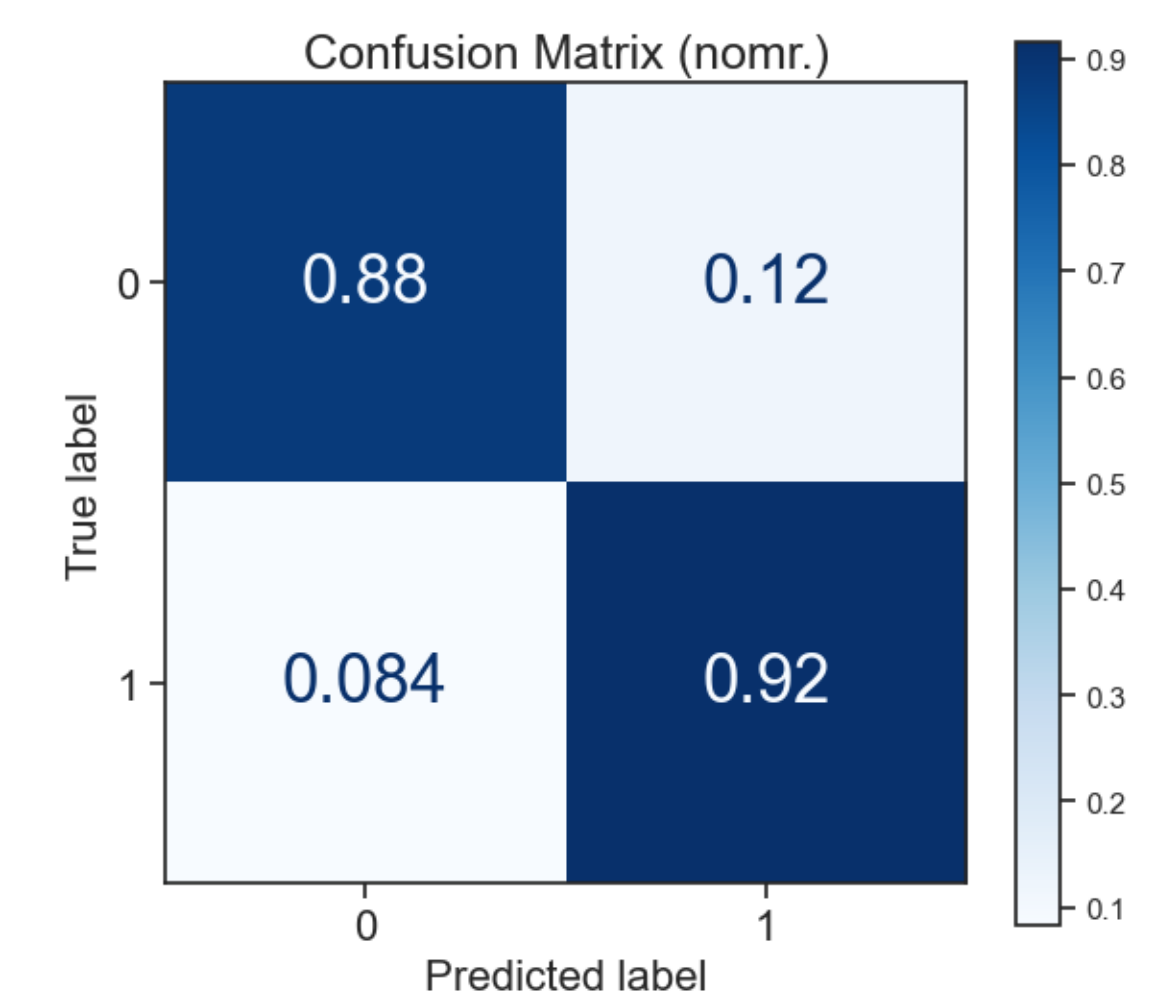
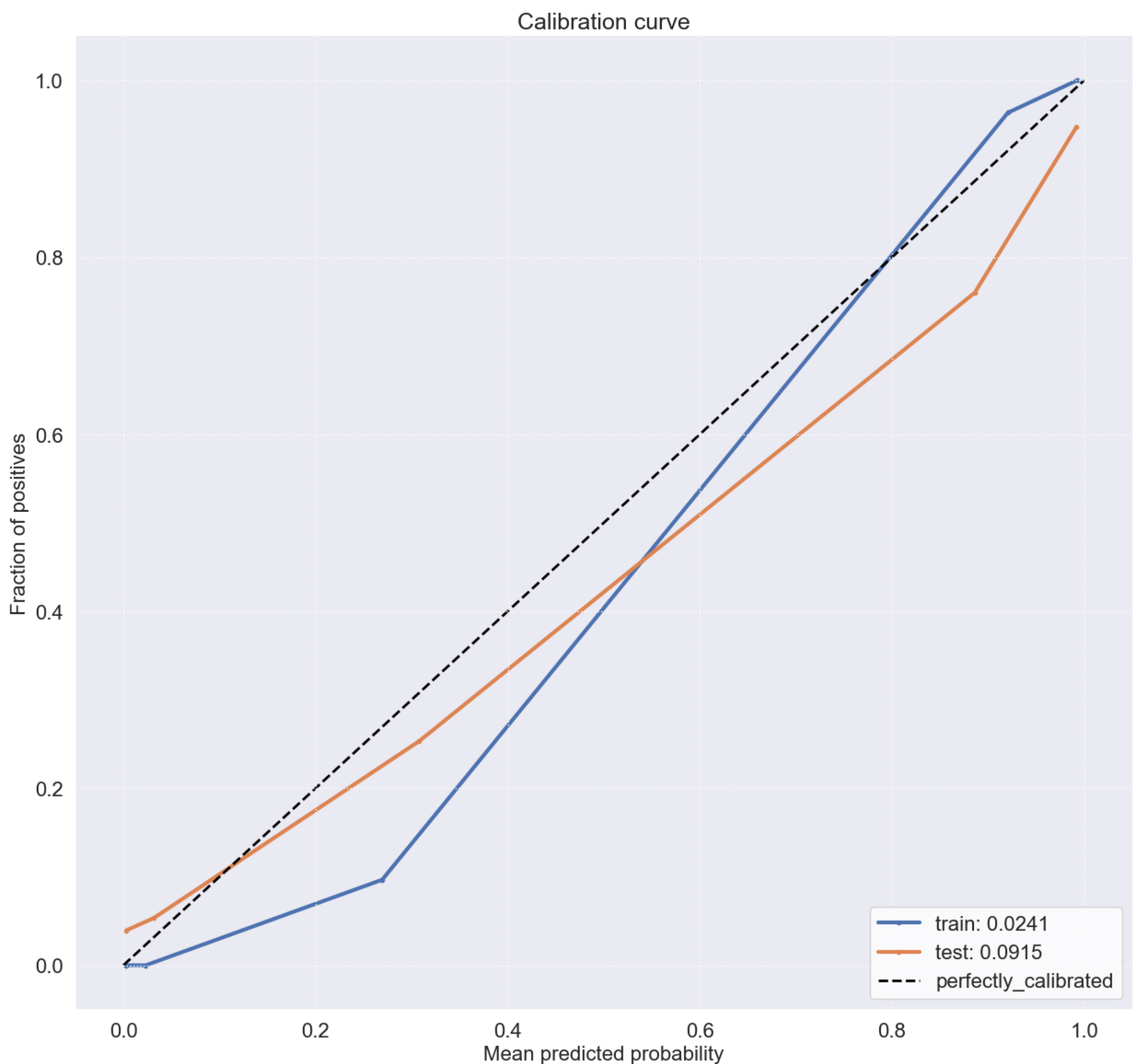
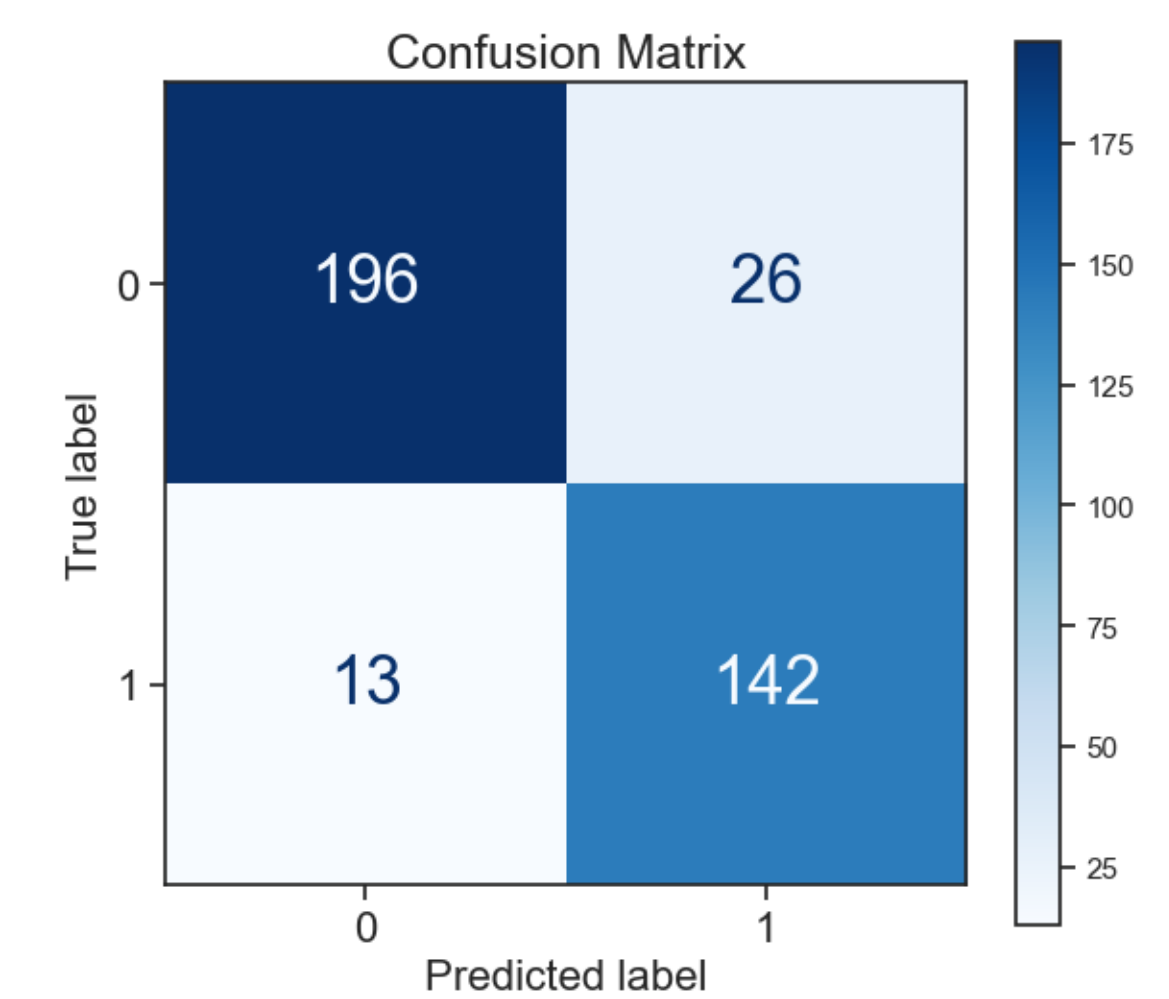
Metric	Train	Test
AUC	0.9984	0.9381
accuracy	0.9807	0.8966
balanced accuracy	0.9829	0.8995
recall_(sens)	0.9952	0.9161
specificity	0.9706	0.8829
precision	0.9596	0.8452
f1_score	0.9808	0.8971



Protein: Q07869 - metric: precision



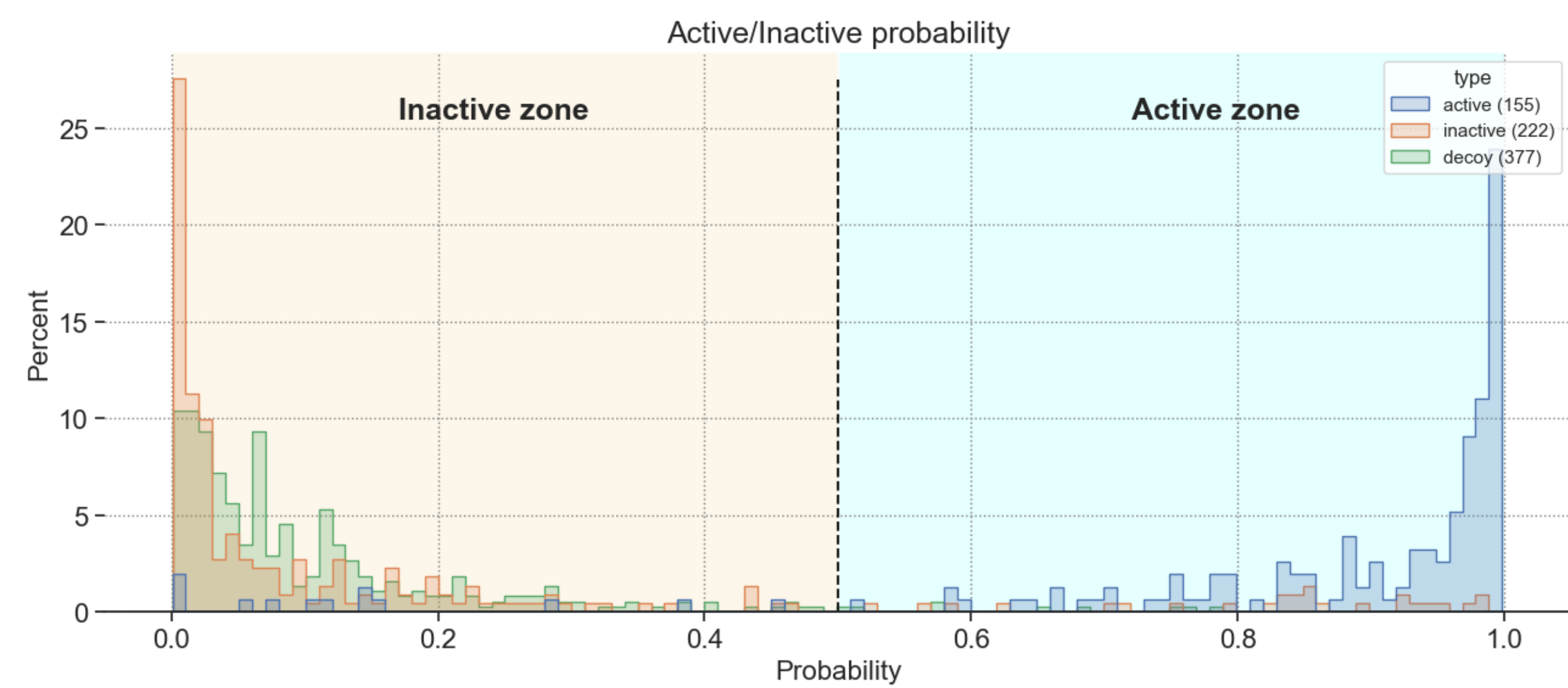
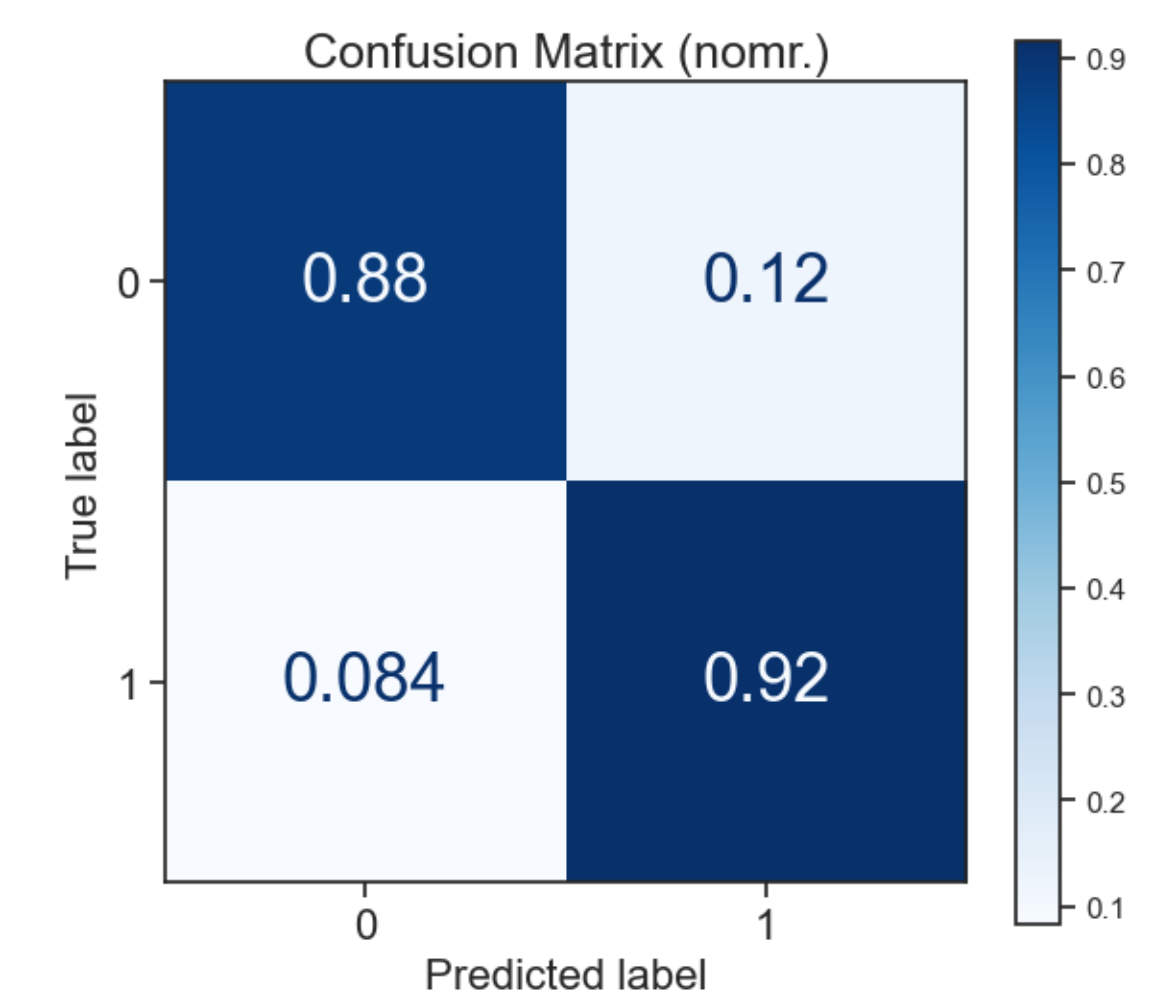
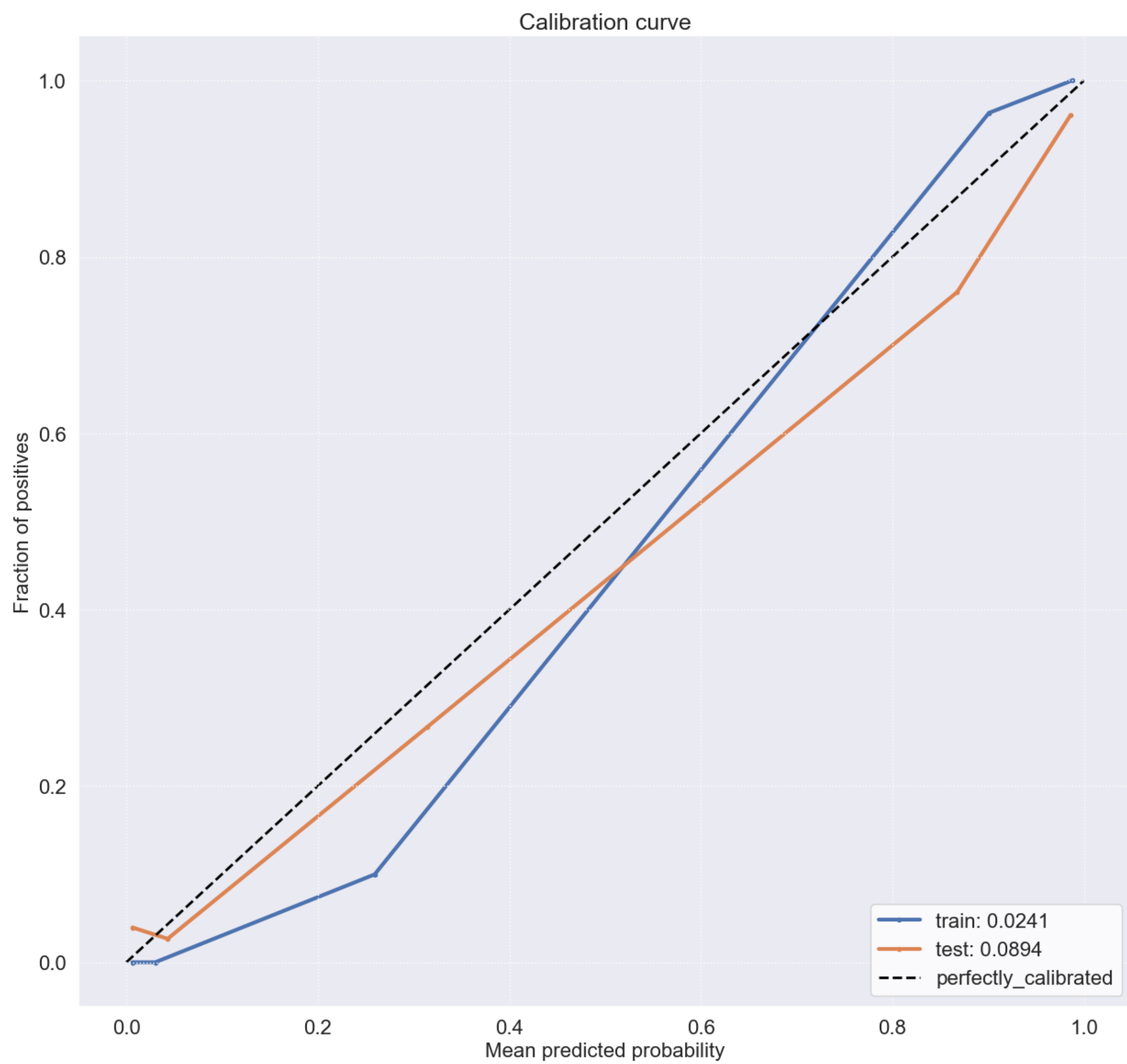
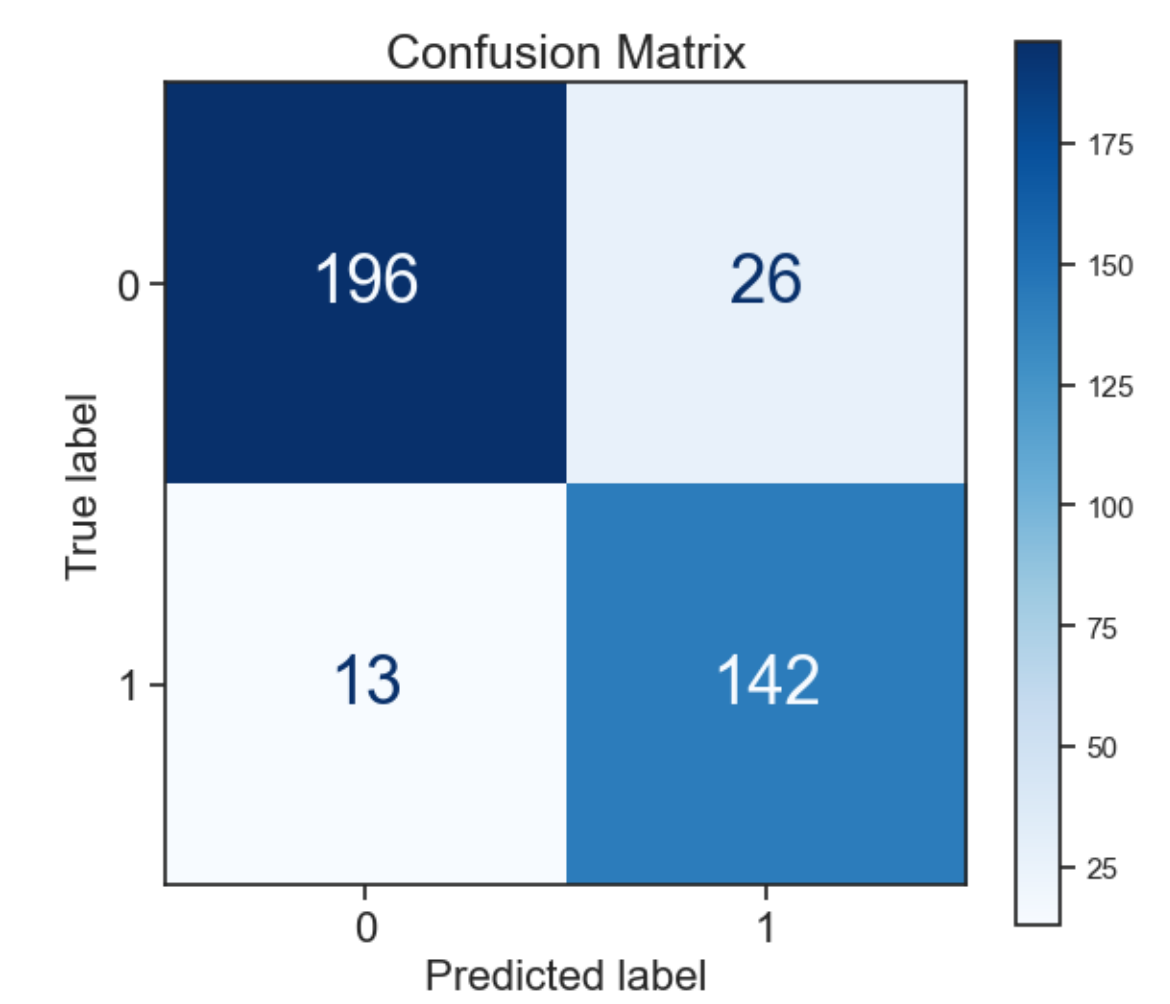
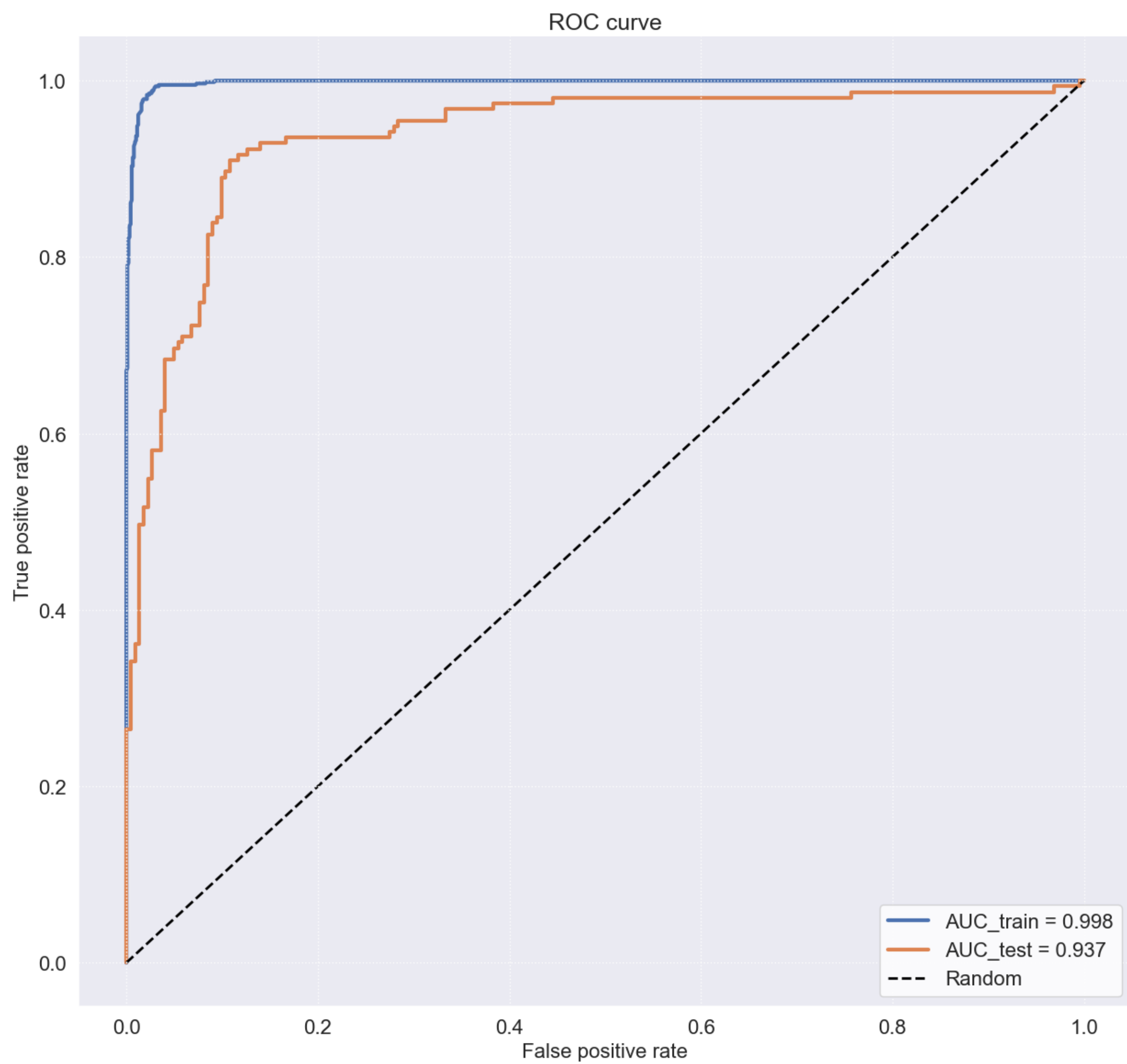
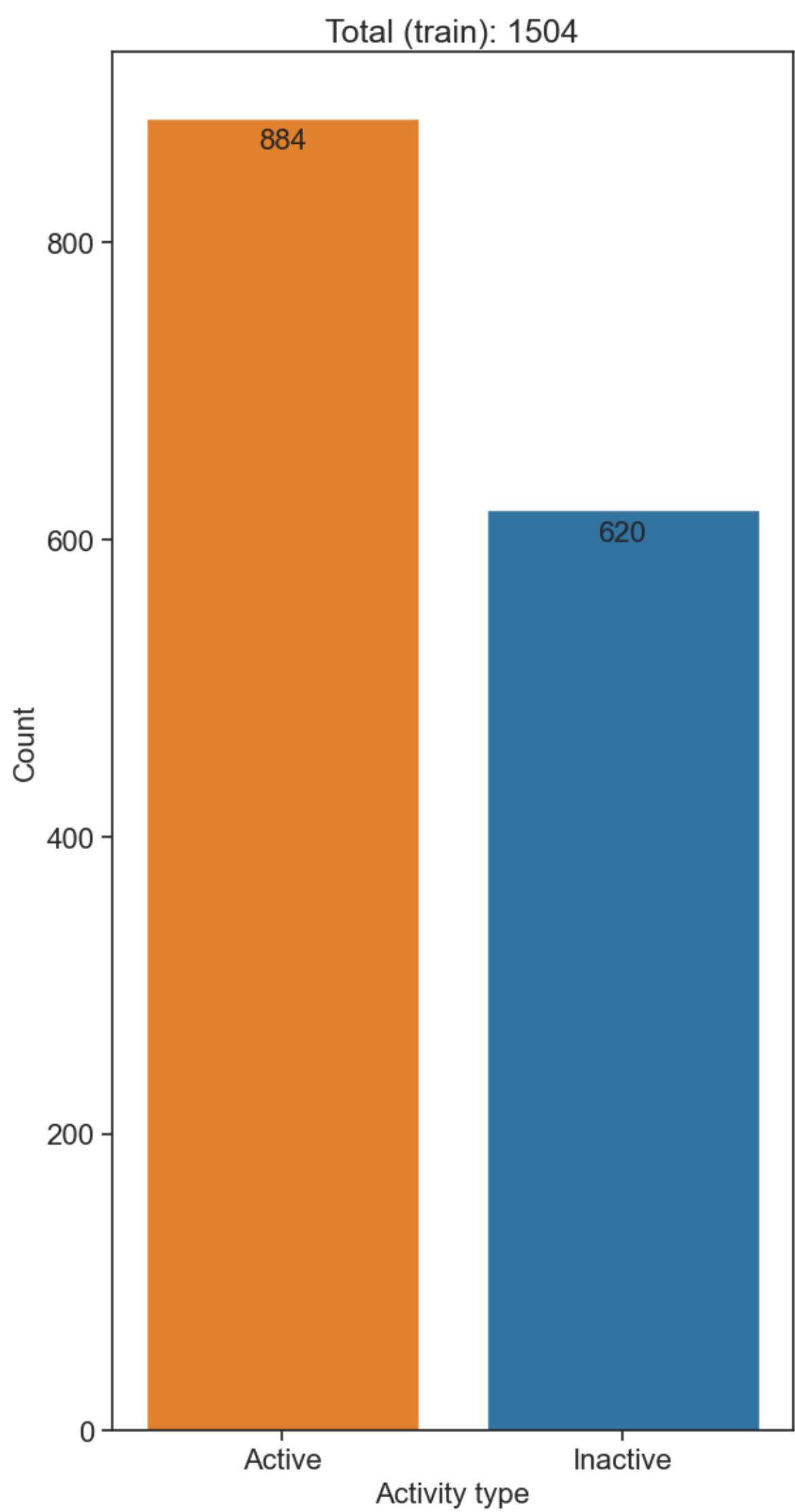
XGBoost Parameters	Value
alpha	4.6742
colsample_bytree	0.8802
gamma	0.6787
lambda	4.4581
learning_rate	0.1114
max_depth	8.0
min_child_weight	4.0
n_estimators	493.0
reg_alpha	0.1061
reg_lambda	0.1717
scale_pos_weight	2.2971
subsample	0.7011



Metric	Train	Test
AUC	0.9978	0.9341
accuracy	0.9734	0.8966
balanced accuracy	0.9767	0.8995
recall_(sens)	0.9952	0.9161
specificity	0.9581	0.8829
precision	0.9434	0.8452
f1_score	0.9735	0.8971



Protein: Q07869 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9977	0.9365
accuracy	0.9774	0.8966
balanced accuracy	0.98	0.8995
recall_(sens)	0.9952	0.9161
specificity	0.9649	0.8829
precision	0.9522	0.8452
f1_score	0.9775	0.8971