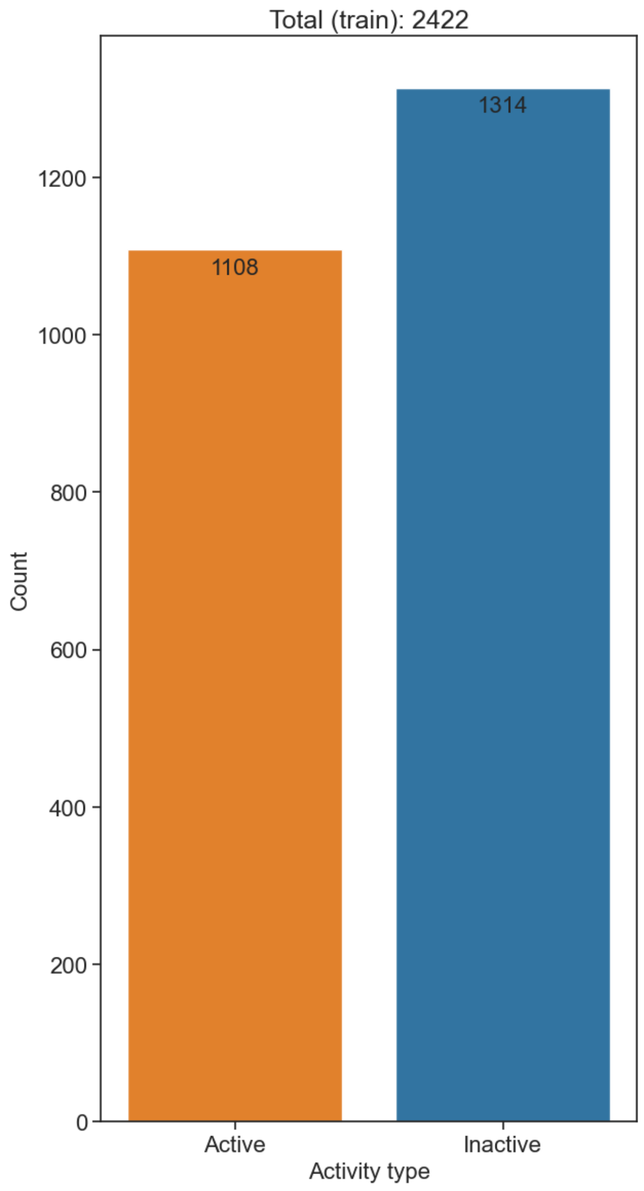
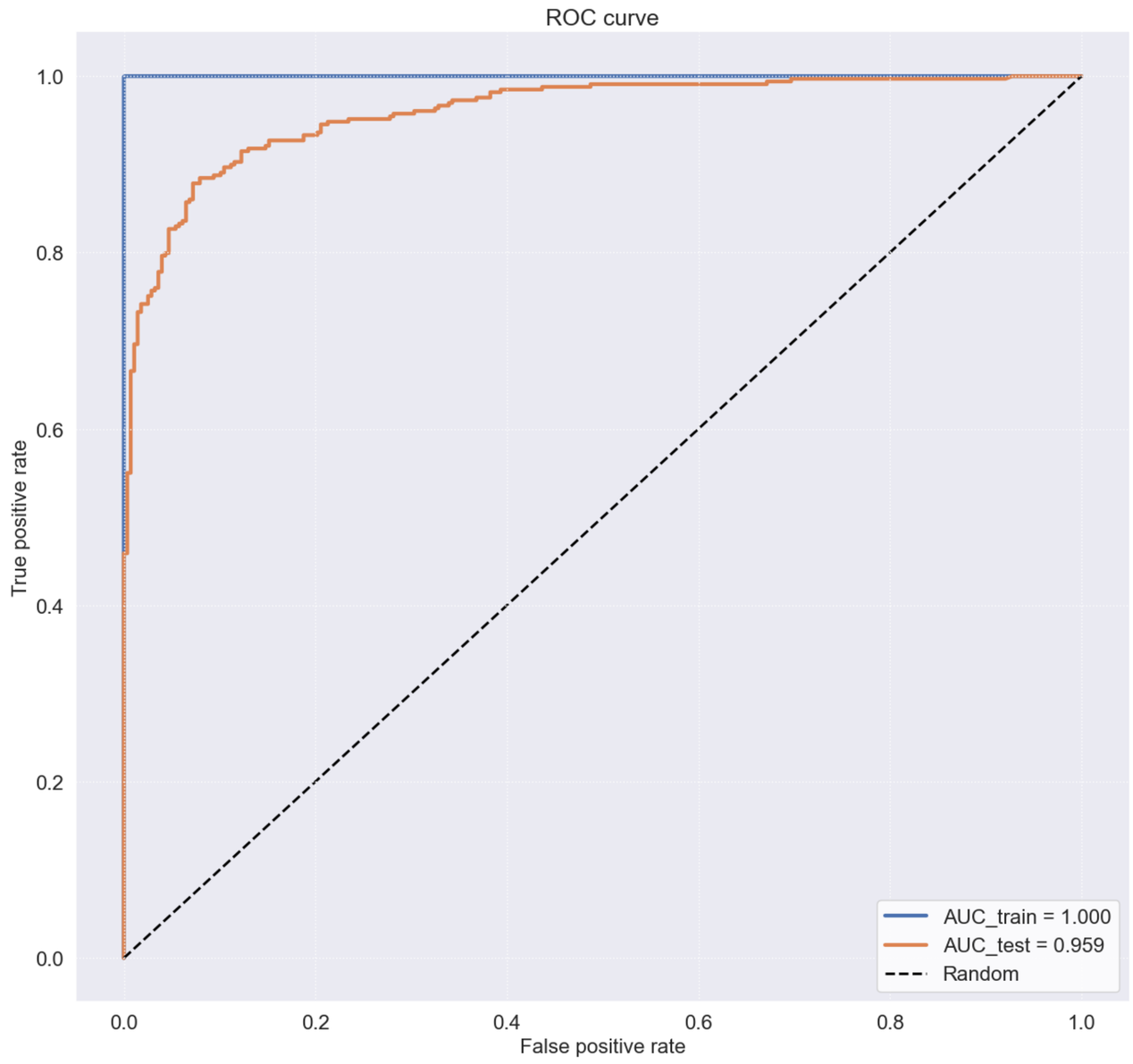
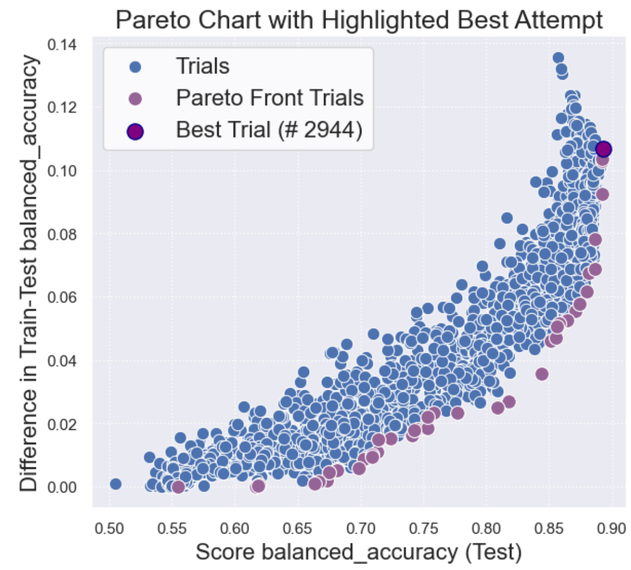
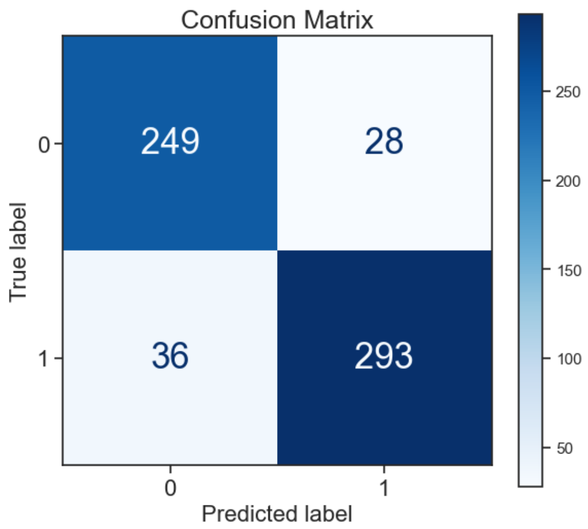
Protein: Q16539 - metric: balanced_accuracy

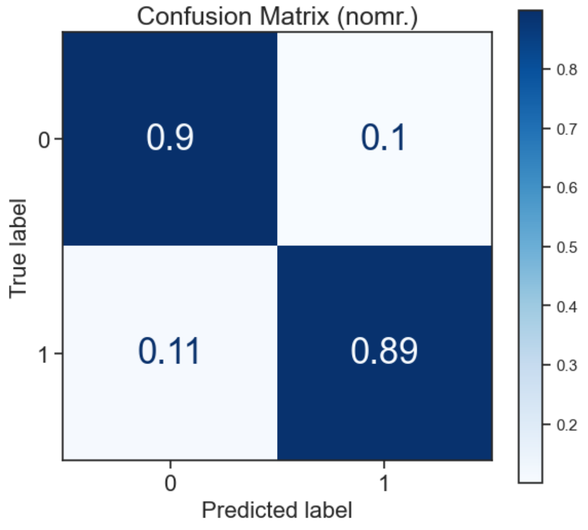


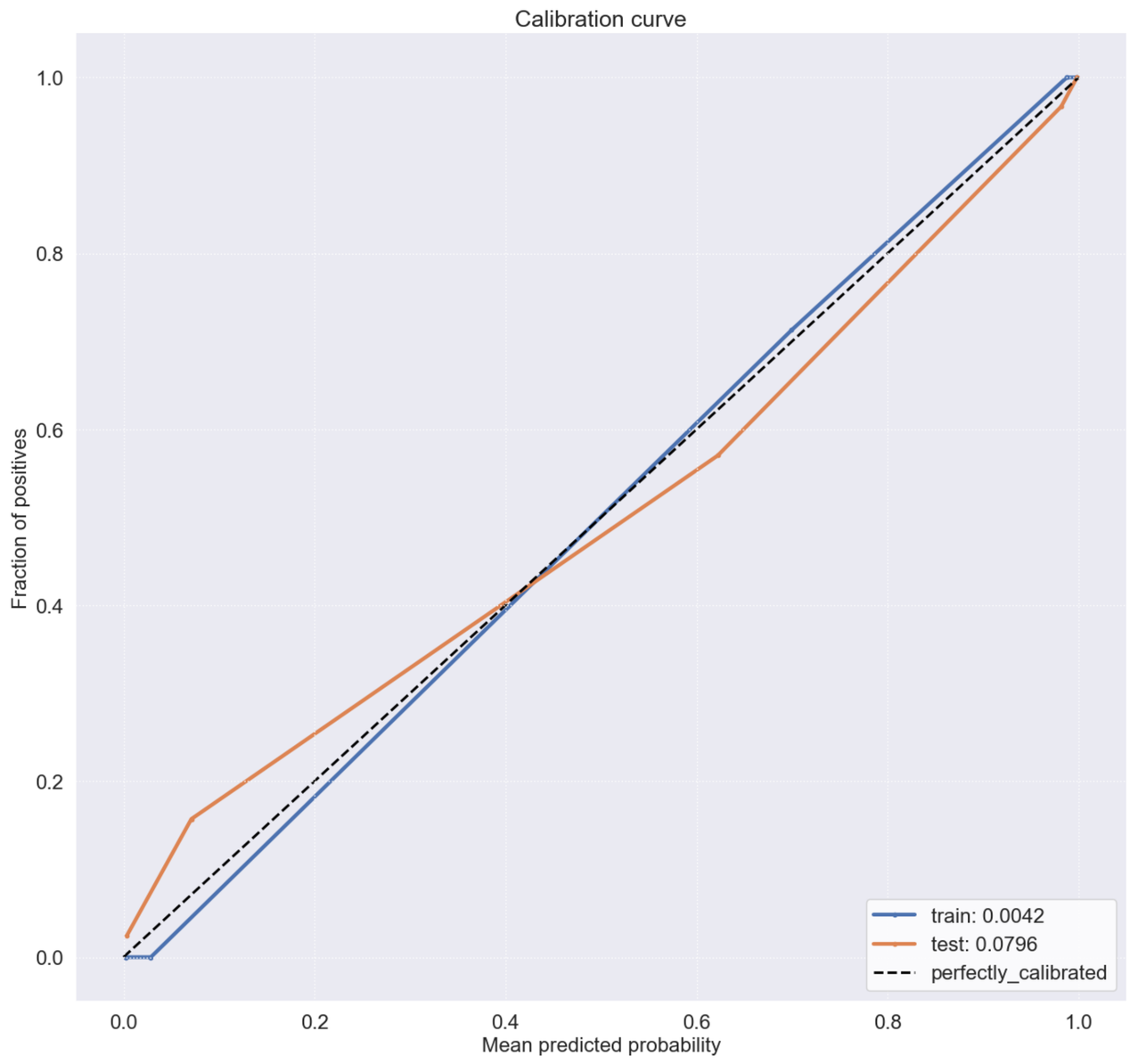


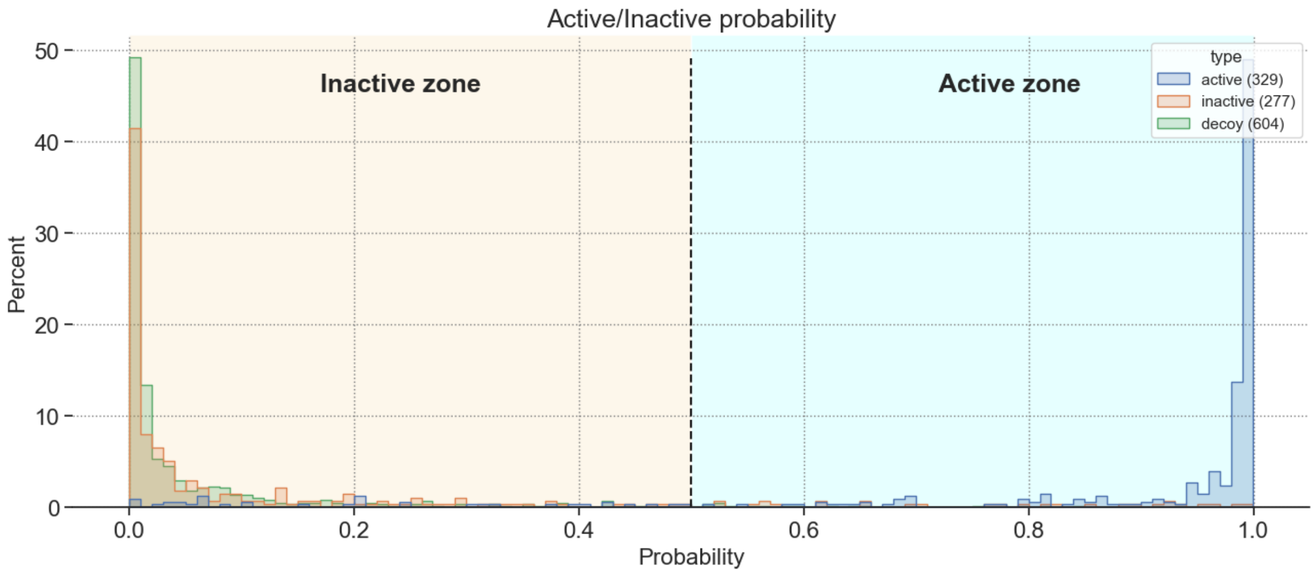


XGBoost Parameters	Value
alpha	1.7039
colsample_bytree	0.6115
gamma	0.0882
lambda	0.3286
learning_rate	0.0653
max_depth	9.0
min_child_weight	1.0
n_estimators	786.0
reg_alpha	0.3519
reg_lambda	0.2733
scale_pos_weight	1.0653
subsample	0.5434



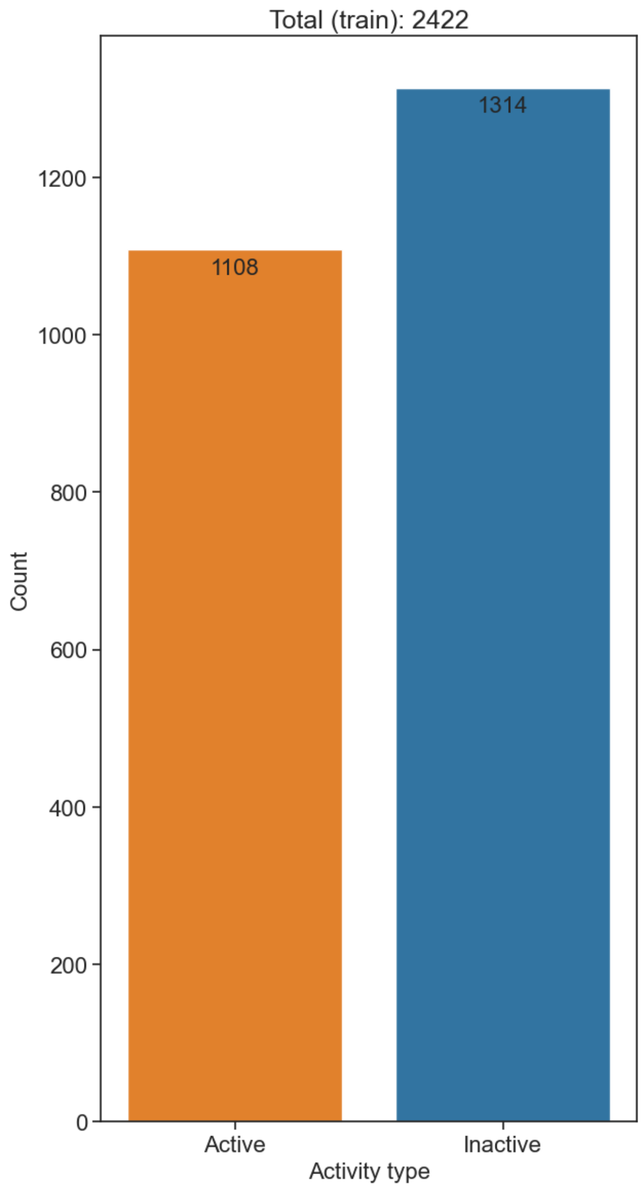


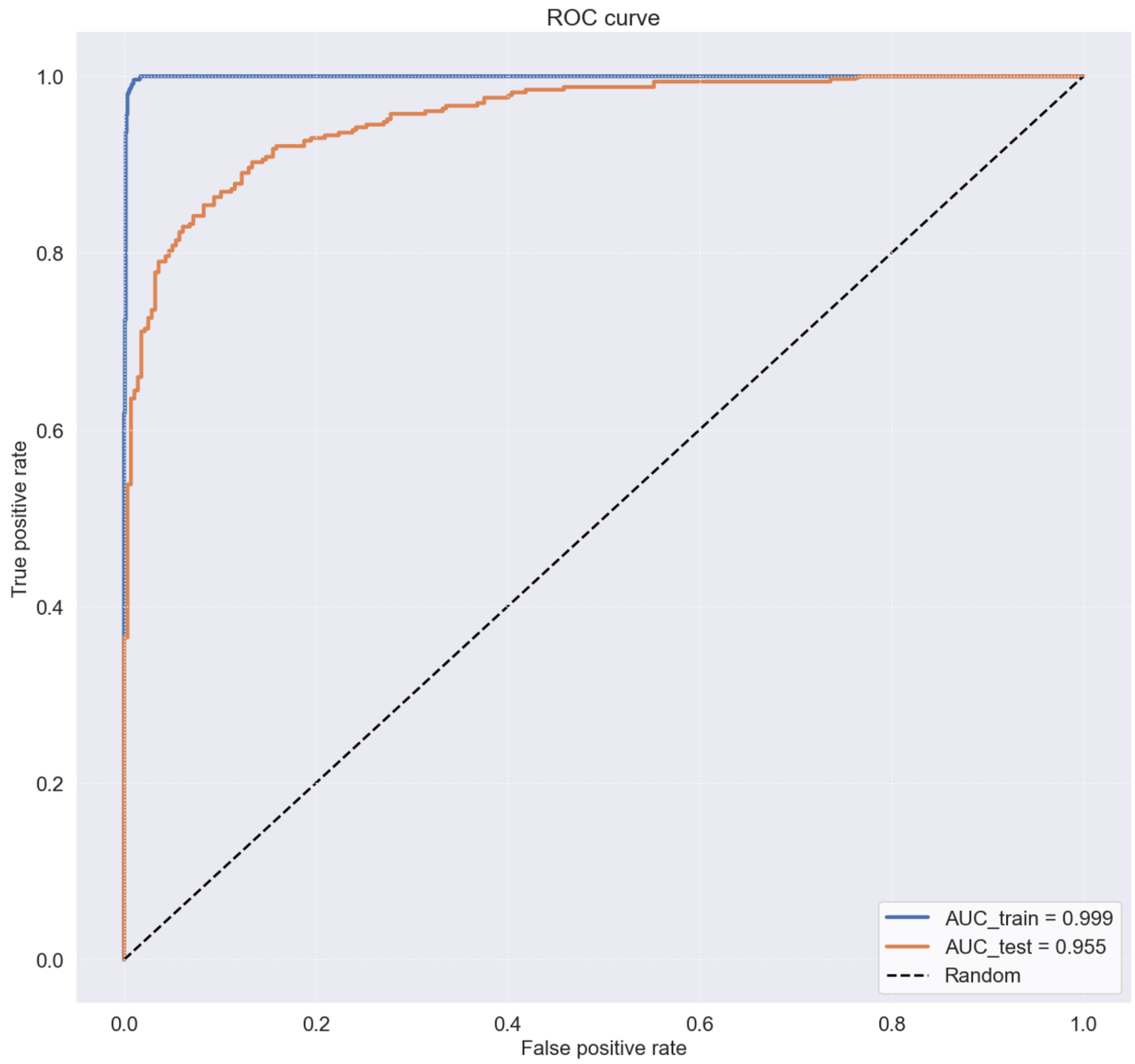


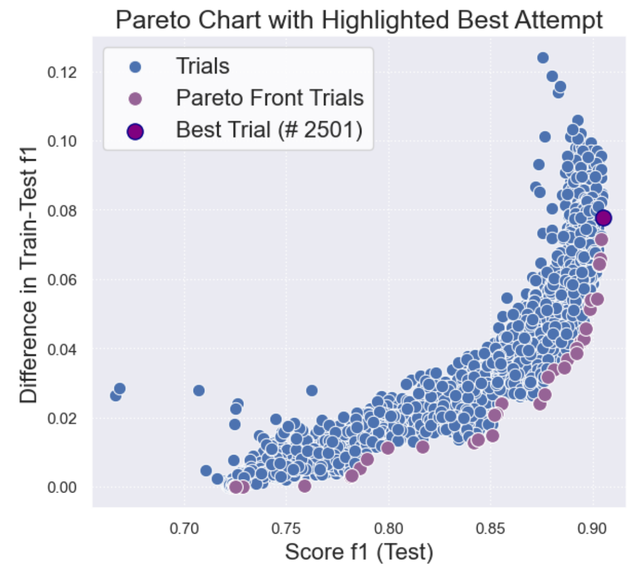


Metric	Train	Test
AUC	1.0	0.9593
accuracy	0.9996	0.8944
balanced accuracy	0.9995	0.8947
recall_(sens)	1.0	0.8906
specificity	0.9991	0.8989
precision	0.9992	0.9128
f1_score	0.9996	0.8945

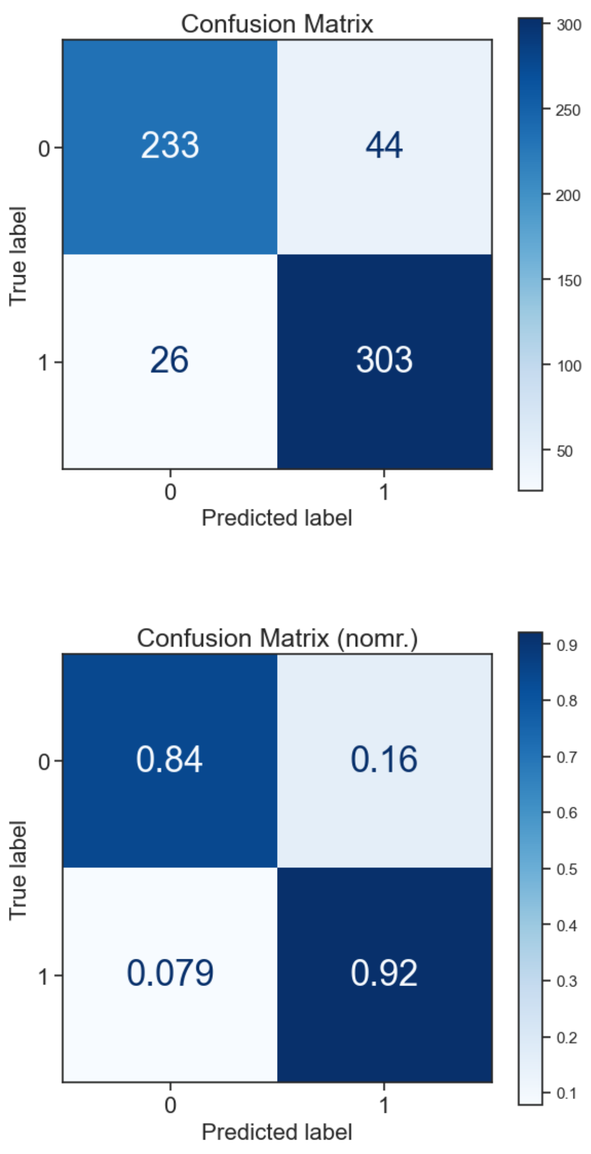
Protein: Q16539 - metric: f1

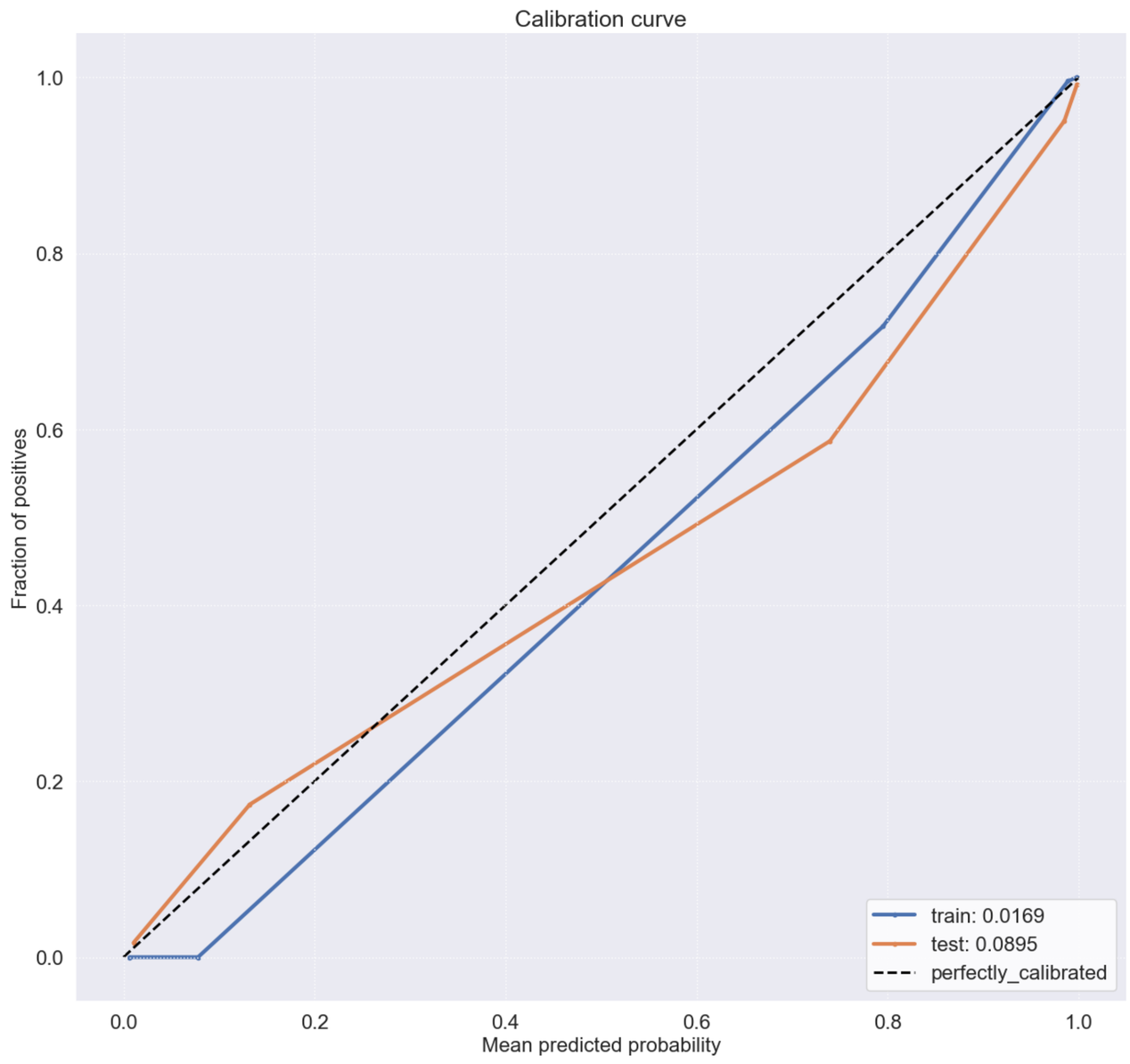


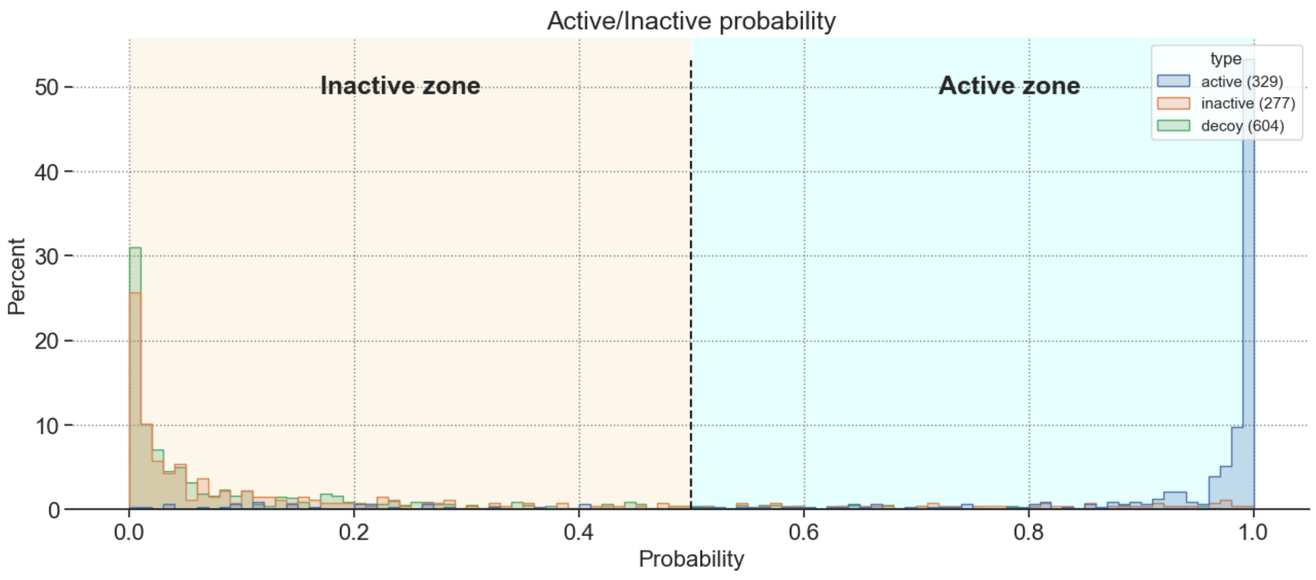




XGBoost Parameters	Value
alpha	4.92
colsample_bytree	0.7754
gamma	0.01
lambda	2.2124
learning_rate	0.0686
max_depth	10.0
min_child_weight	10.0
n_estimators	863.0
reg_alpha	0.1049
reg_lambda	0.634
scale_pos_weight	3.4759
subsample	0.8996

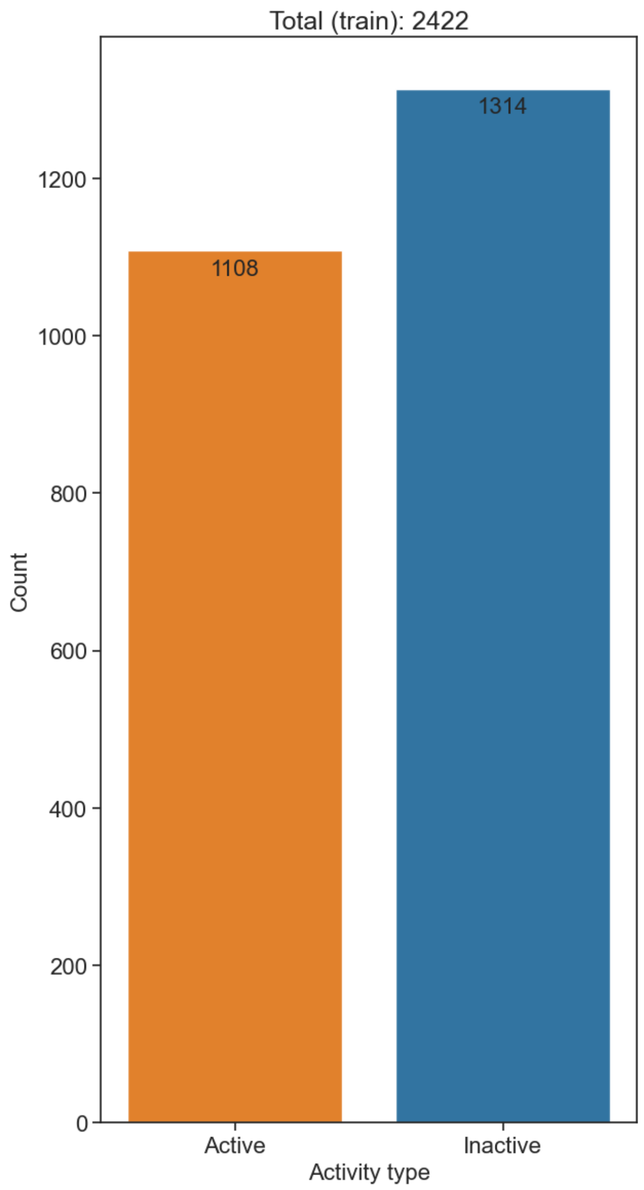


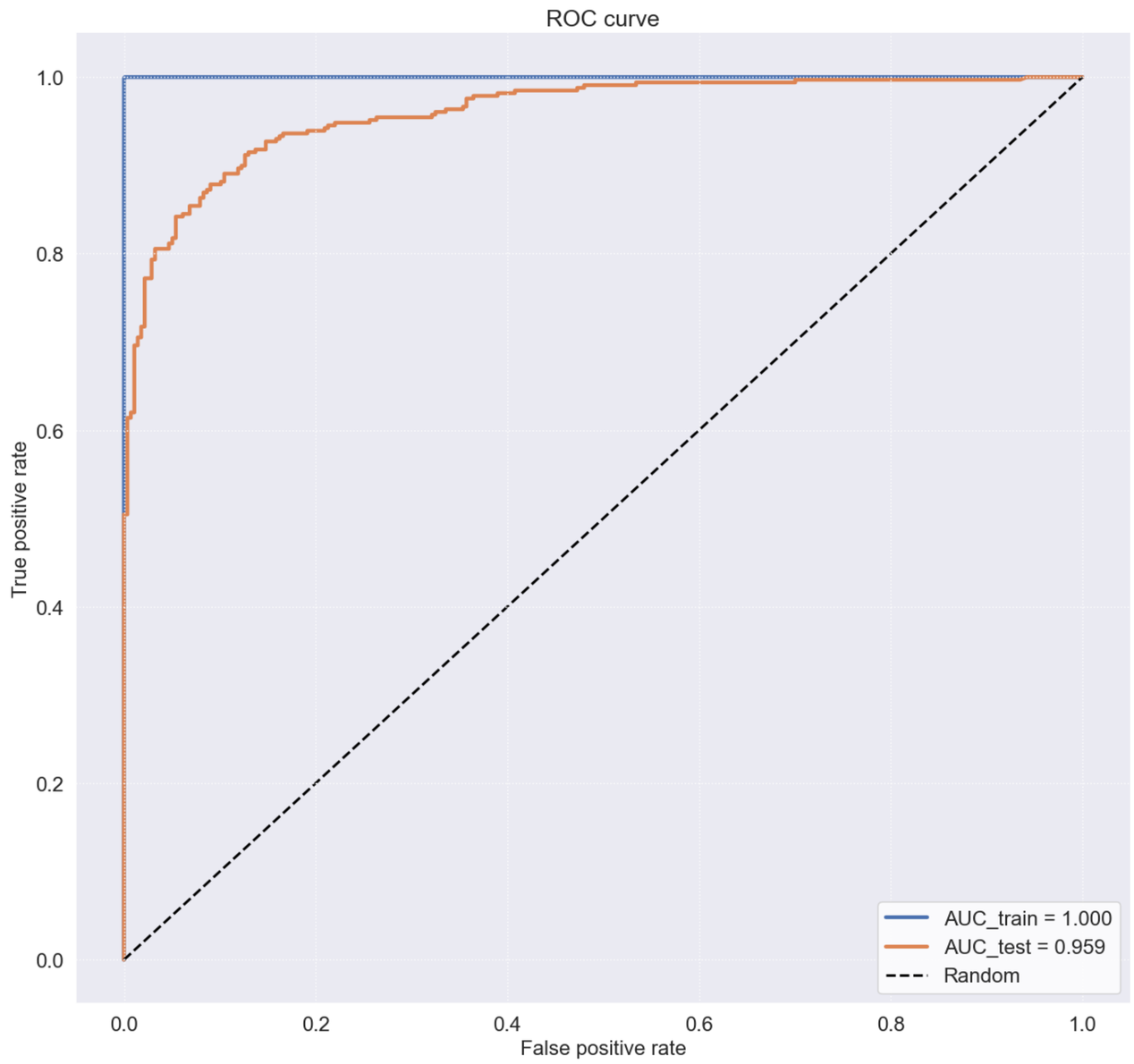


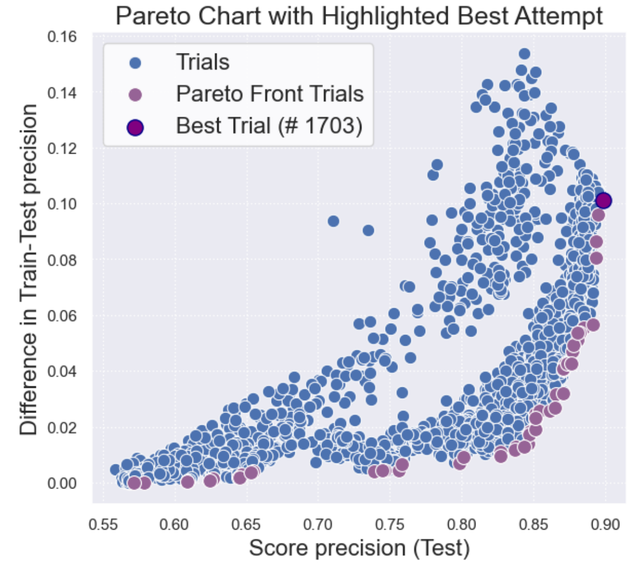


Metric	Train	Test
AUC	0.9992	0.9546
accuracy	0.9818	0.8845
balanced accuracy	0.9801	0.8811
recall_(sens)	1.0	0.921
specificity	0.9603	0.8412
precision	0.9676	0.8732
f1_score	0.9818	0.8841

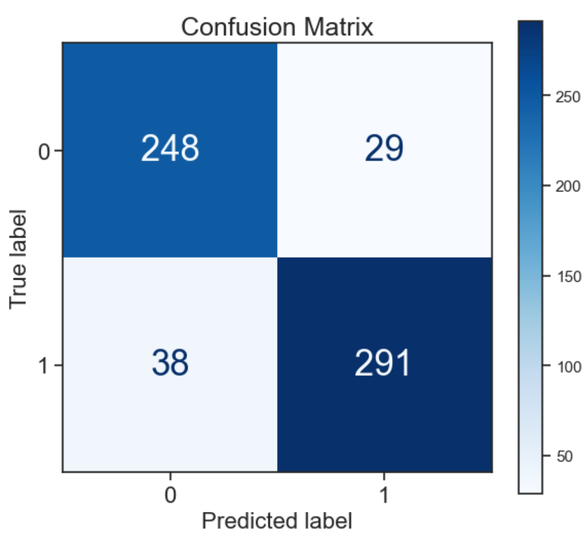
Protein: Q16539 - metric: precision

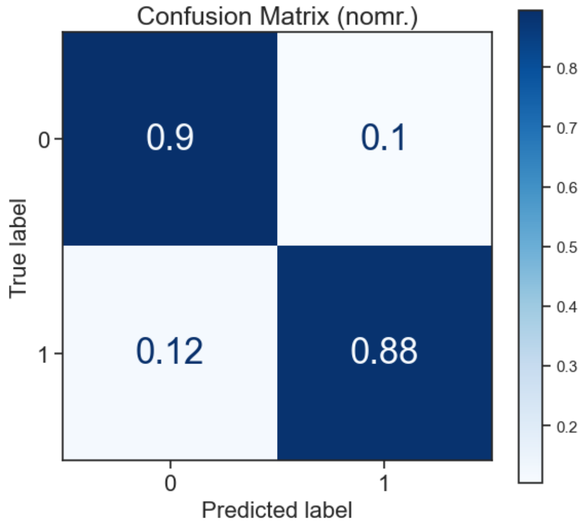


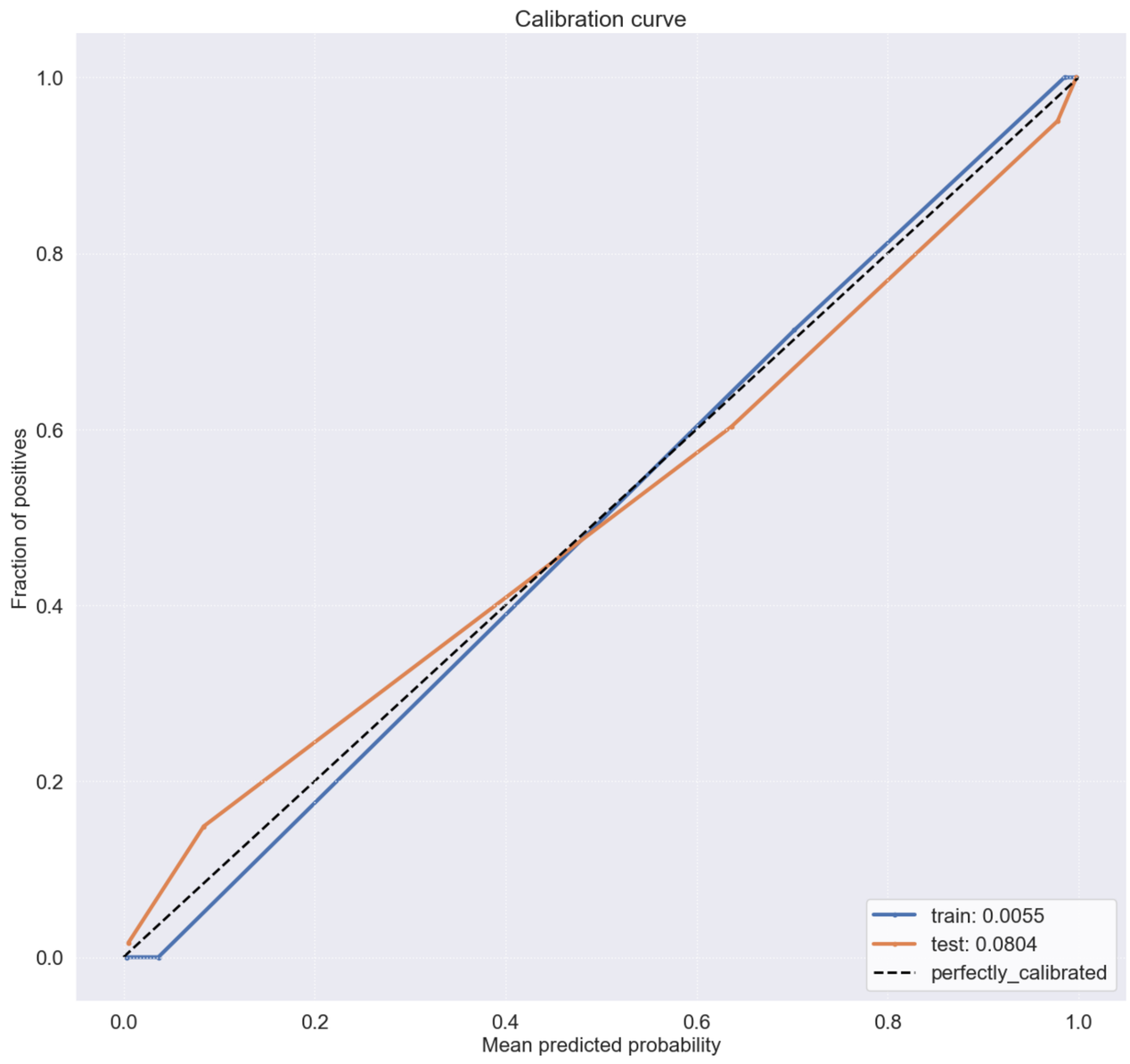


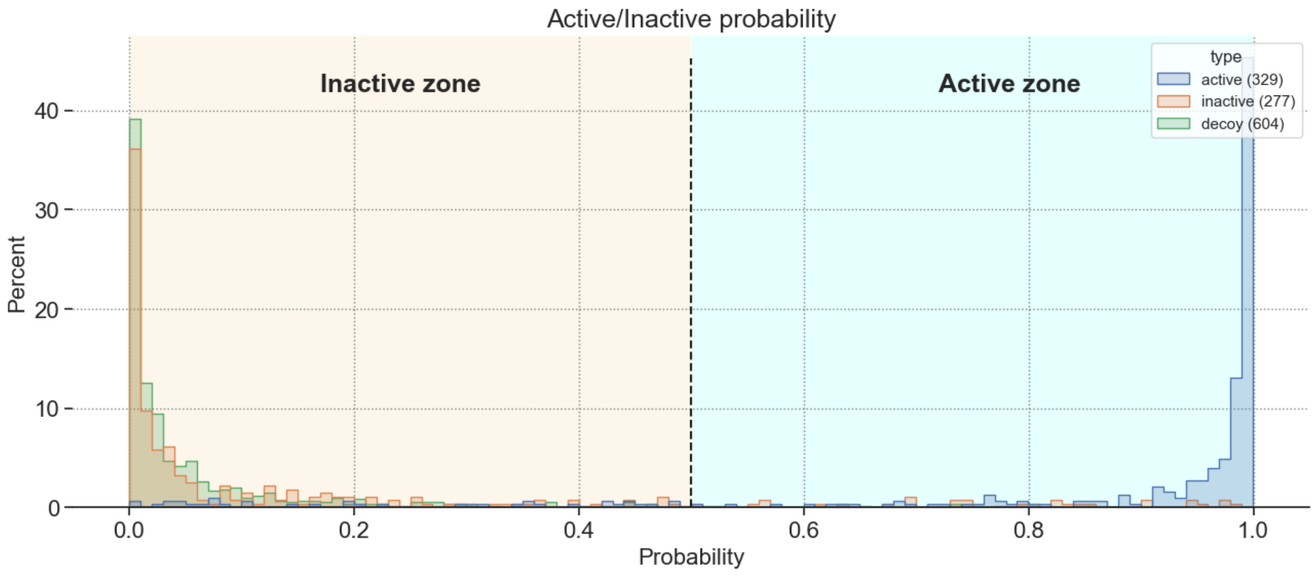


XGBoost Parameters	Value
alpha	3.2136
colsample_bytree	0.6343
gamma	0.273
lambda	2.392
learning_rate	0.0336
max_depth	10.0
min_child_weight	1.0
n_estimators	987.0
reg_alpha	0.1503
reg_lambda	0.2126
scale_pos_weight	1.1392
subsample	0.6139



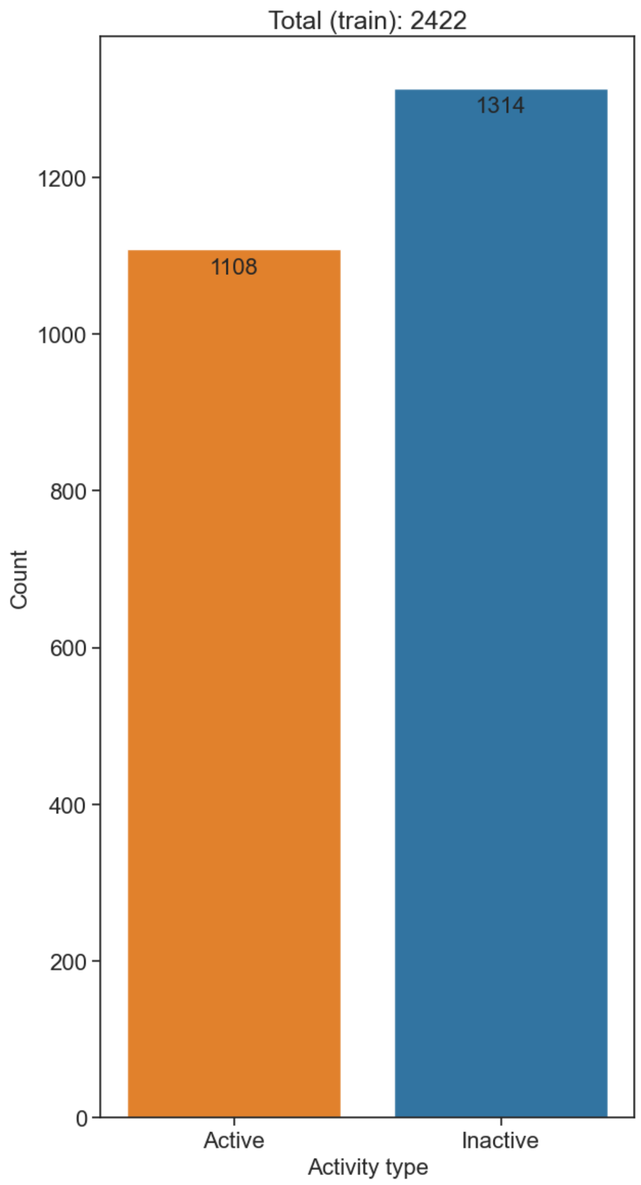


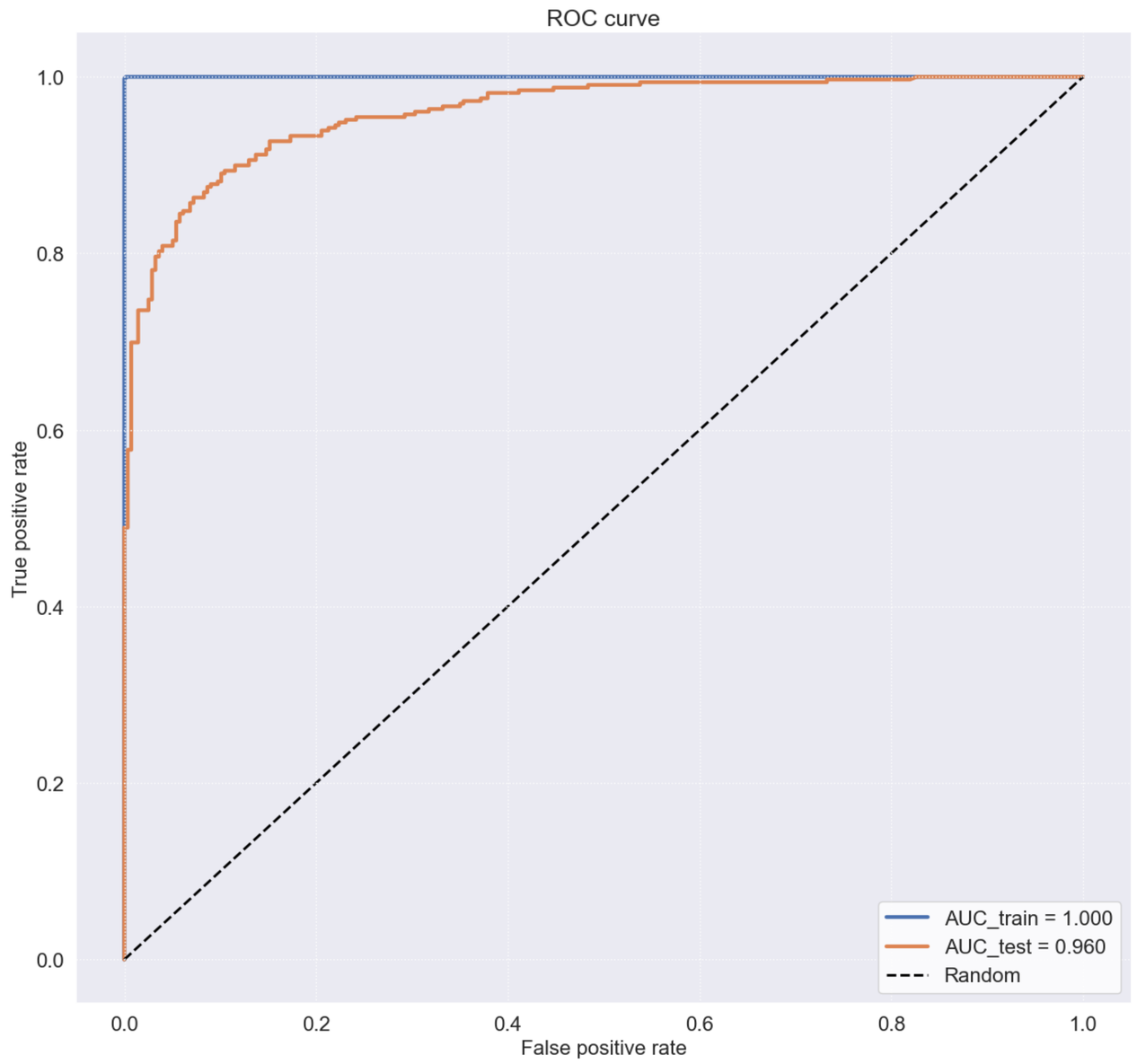


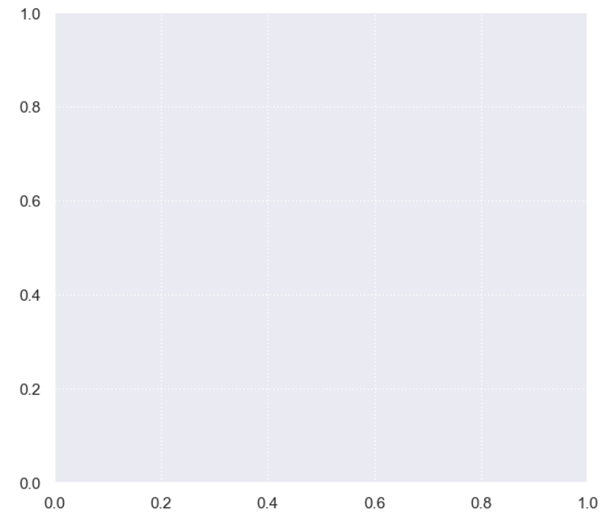


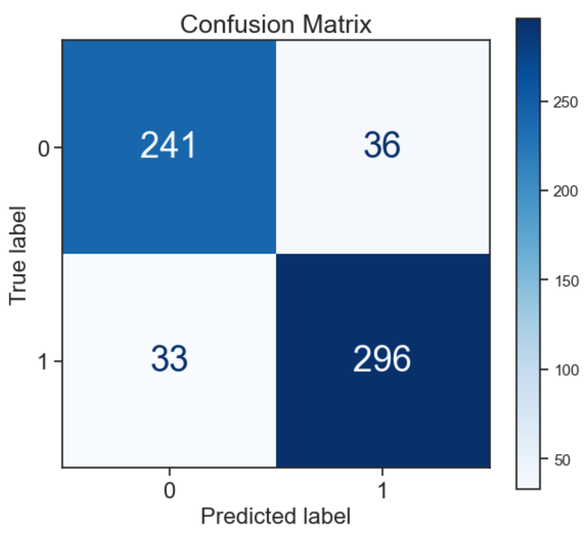
Metric	Train	Test
AUC	1.0	0.9594
accuracy	0.9992	0.8894
balanced accuracy	0.9992	0.8899
recall_(sens)	0.9992	0.8845
specificity	0.9991	0.8953
precision	0.9992	0.9094
f1_score	0.9992	0.8896

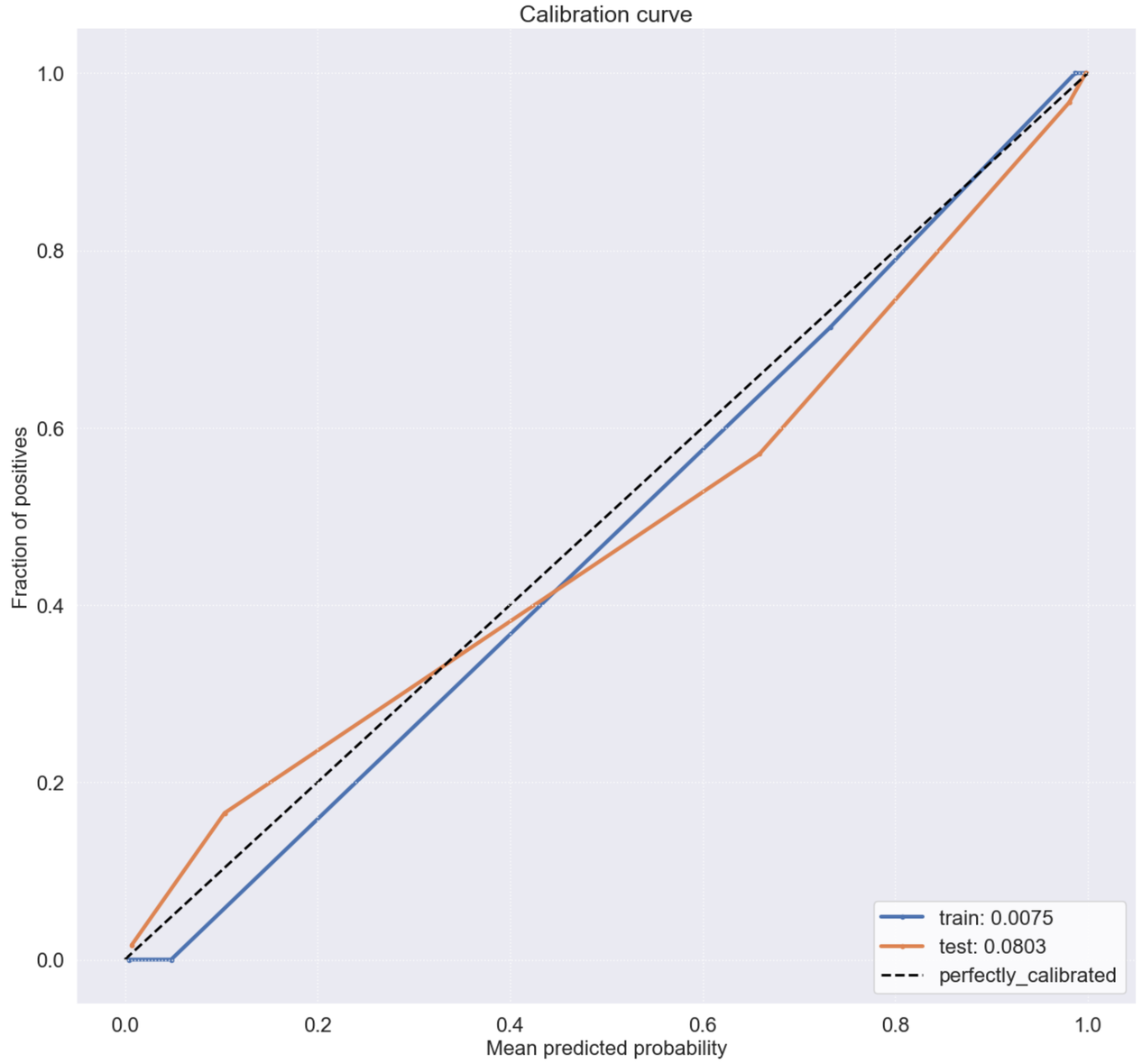
Protein: Q16539 - metric: SoftVotingXGBoostEnsemble

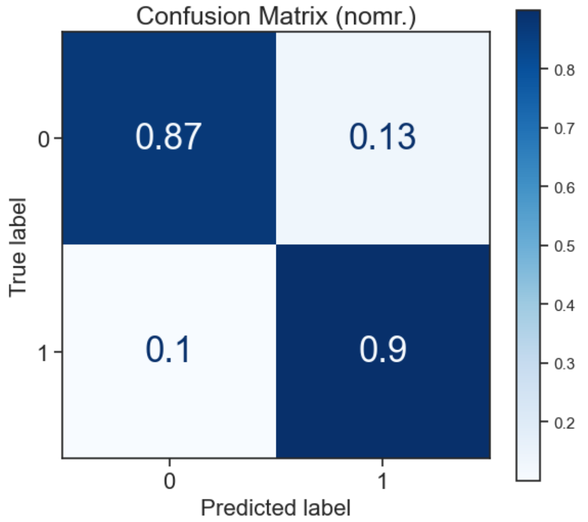


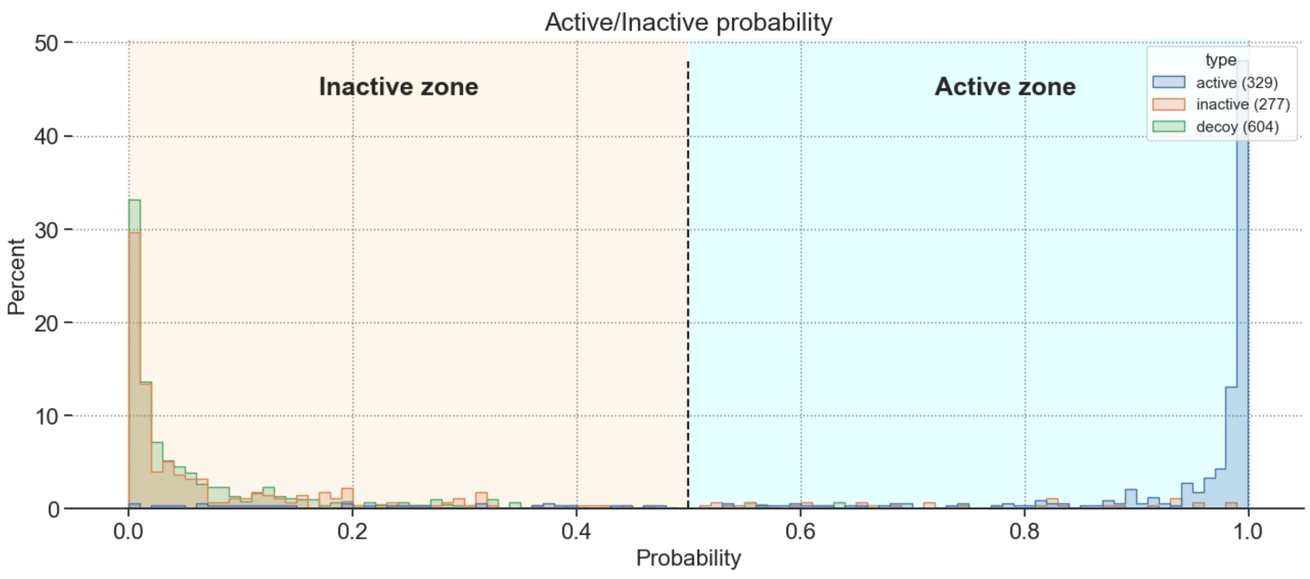












Metric	Train	Test
AUC	1.0	0.9598
accuracy	0.9959	0.8861
balanced accuracy	0.9955	0.8849
recall_(sens)	1.0	0.8997
specificity	0.991	0.87
precision	0.9924	0.8916
f1_score	0.9959	0.8861