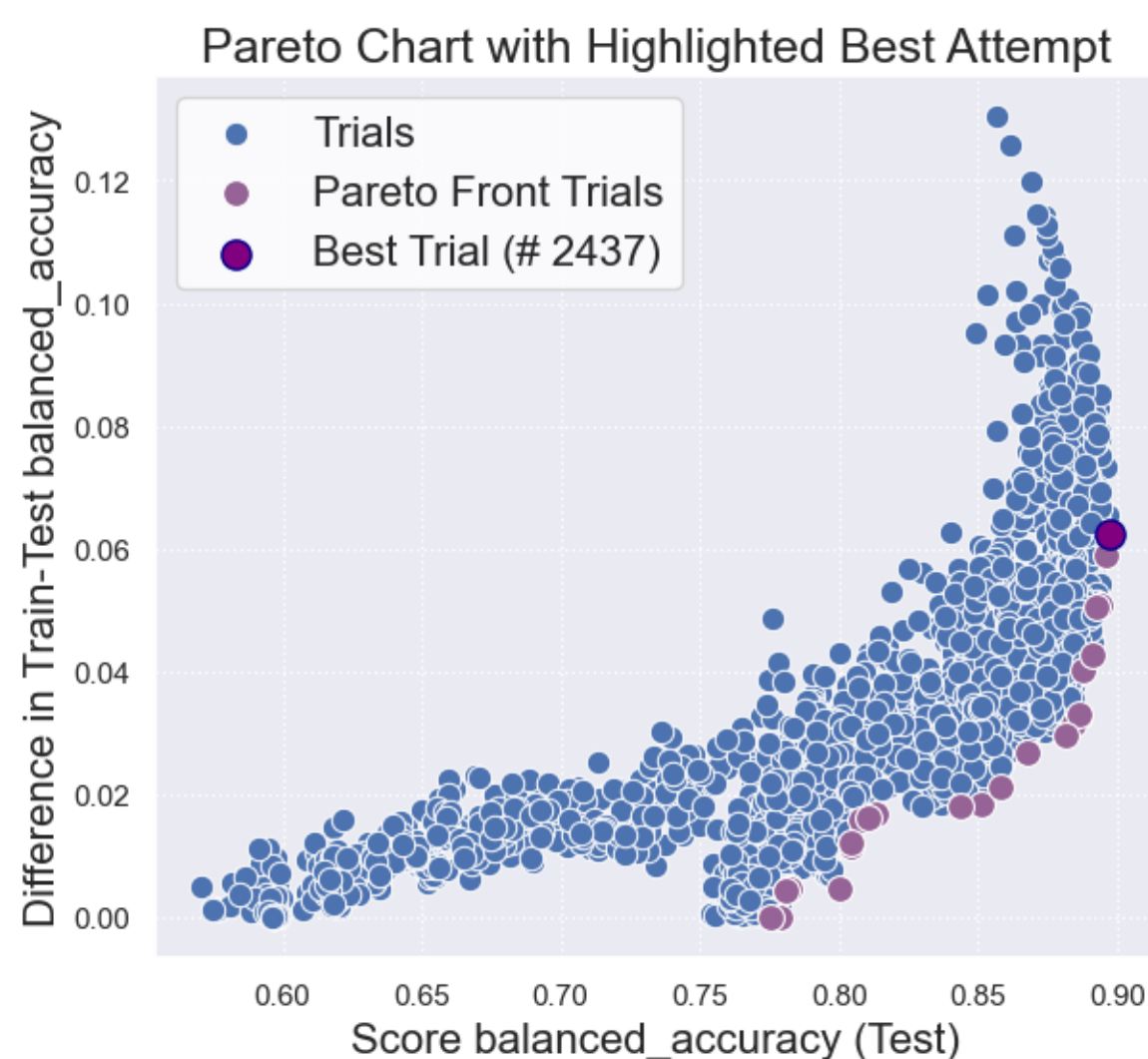
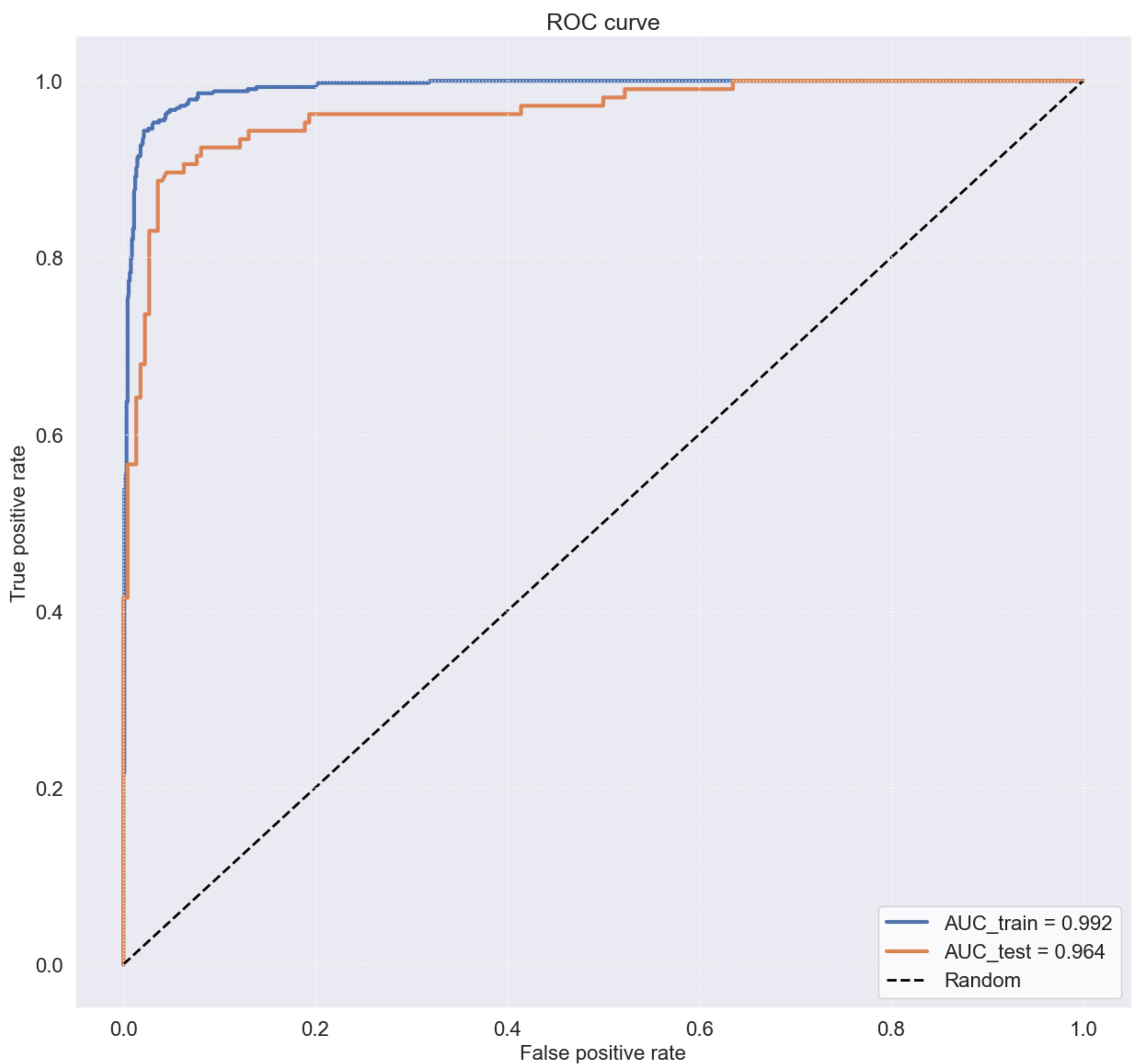
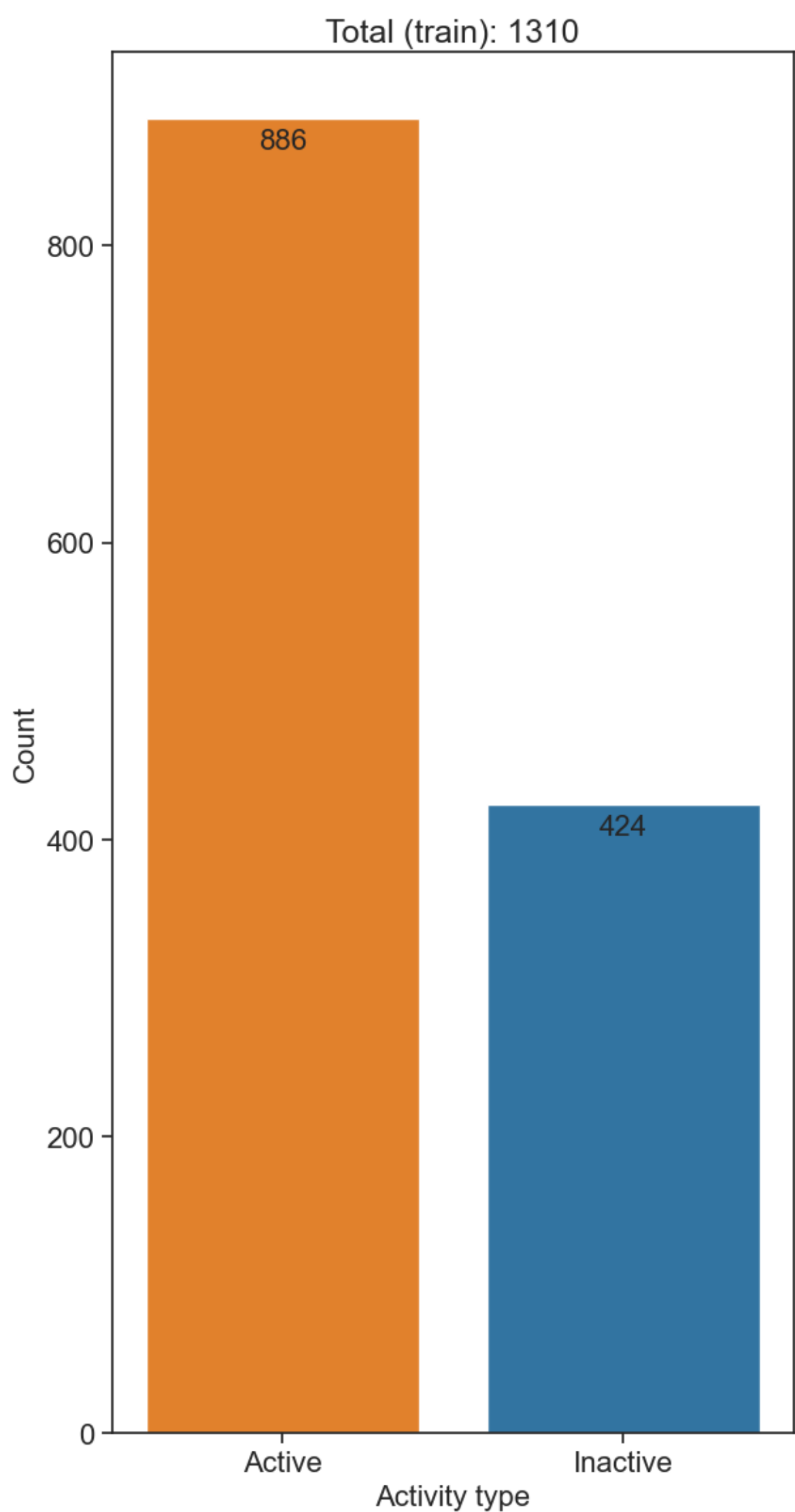
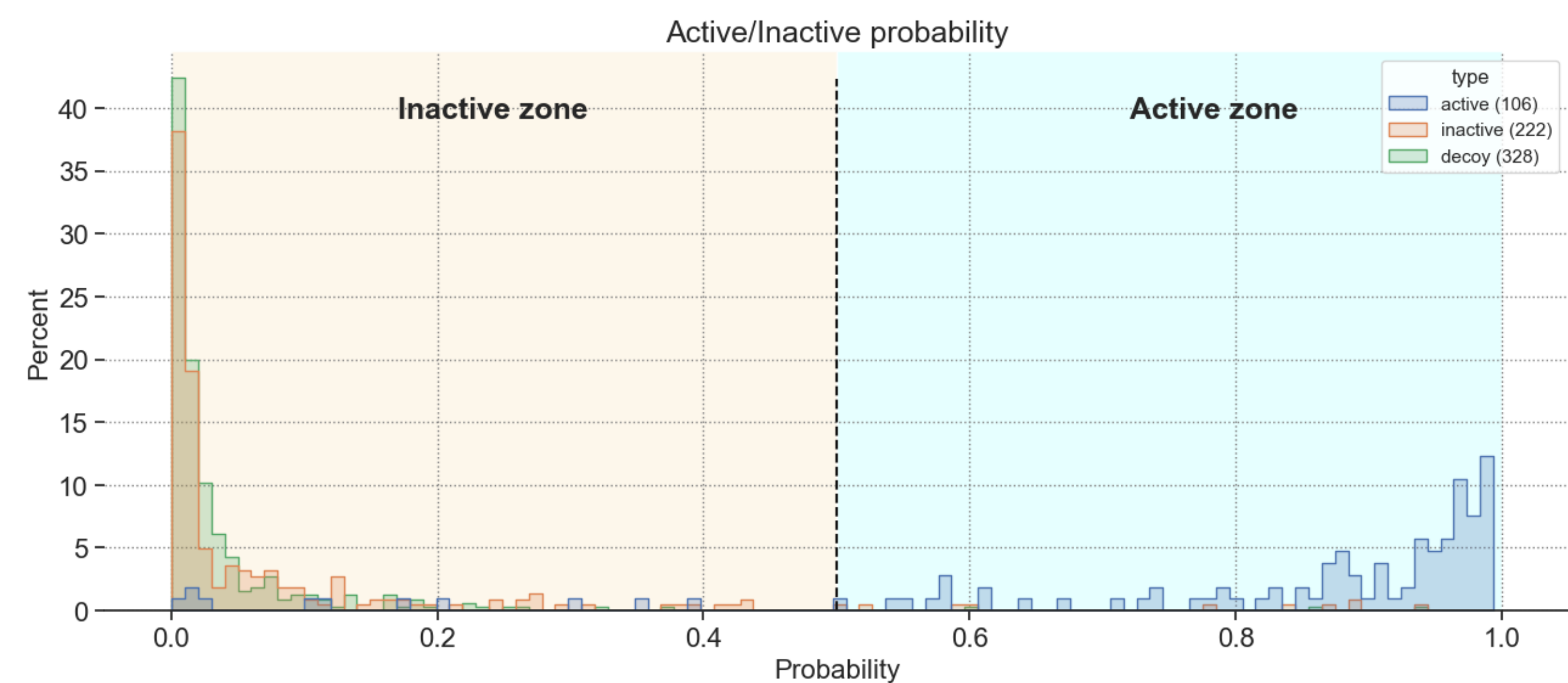
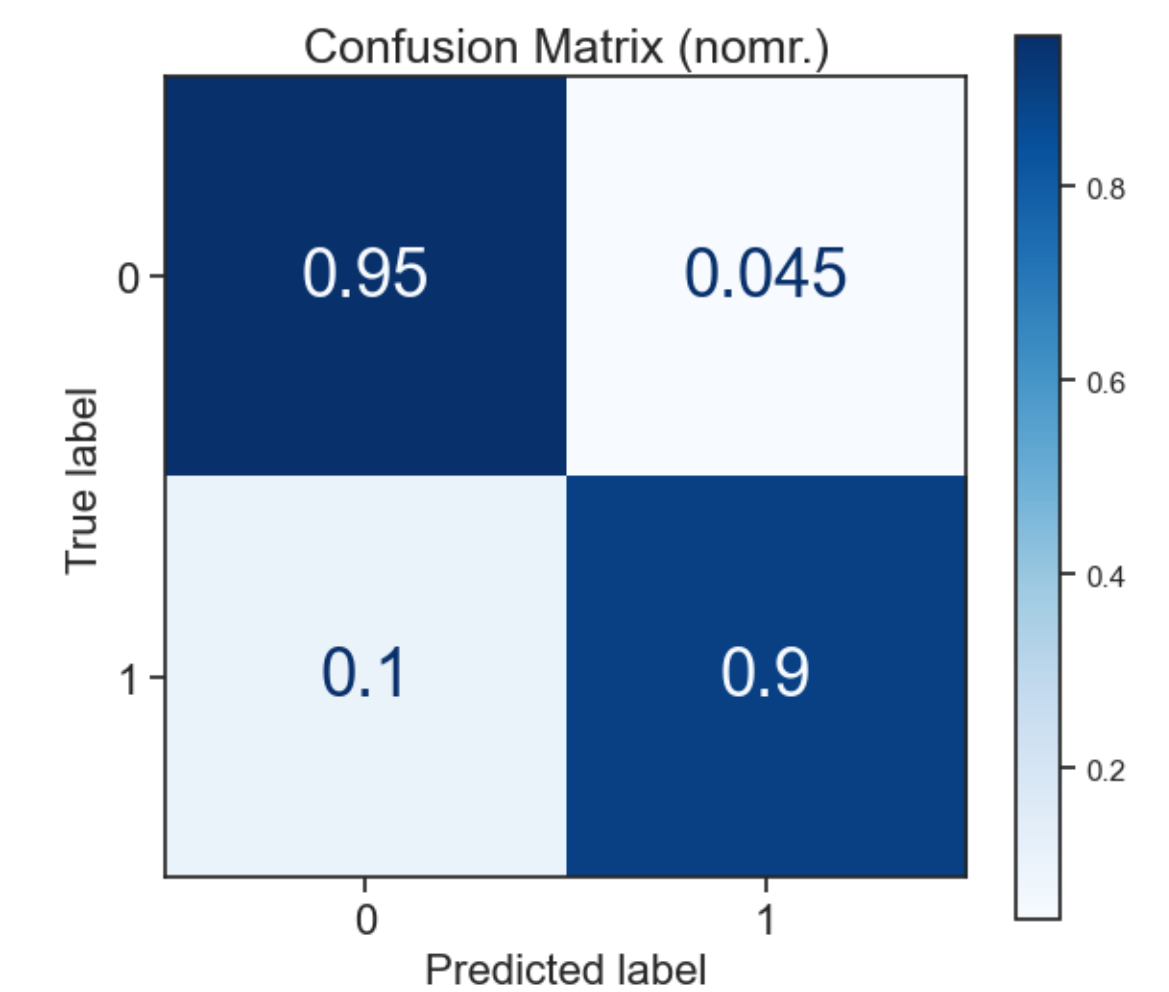
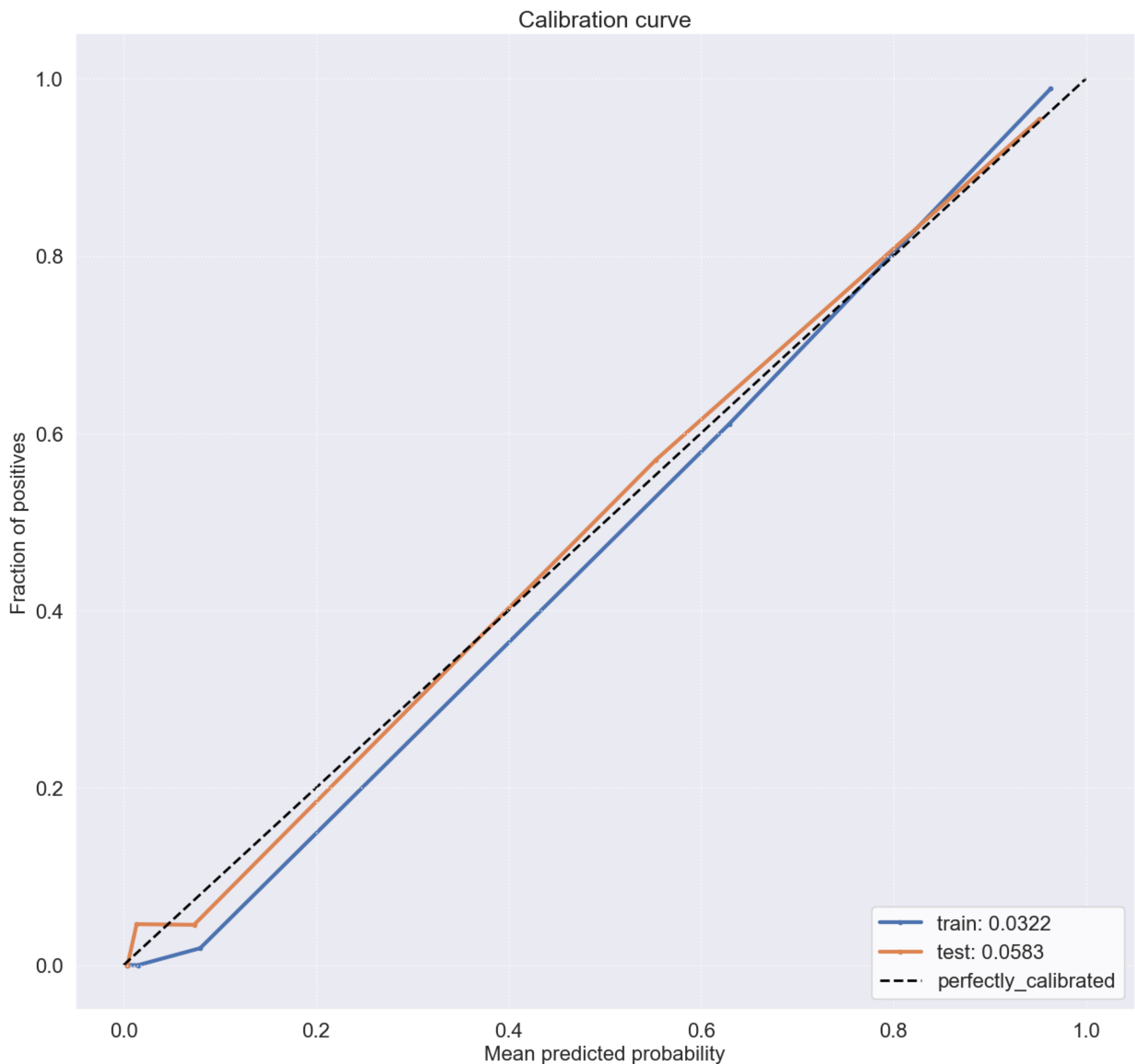
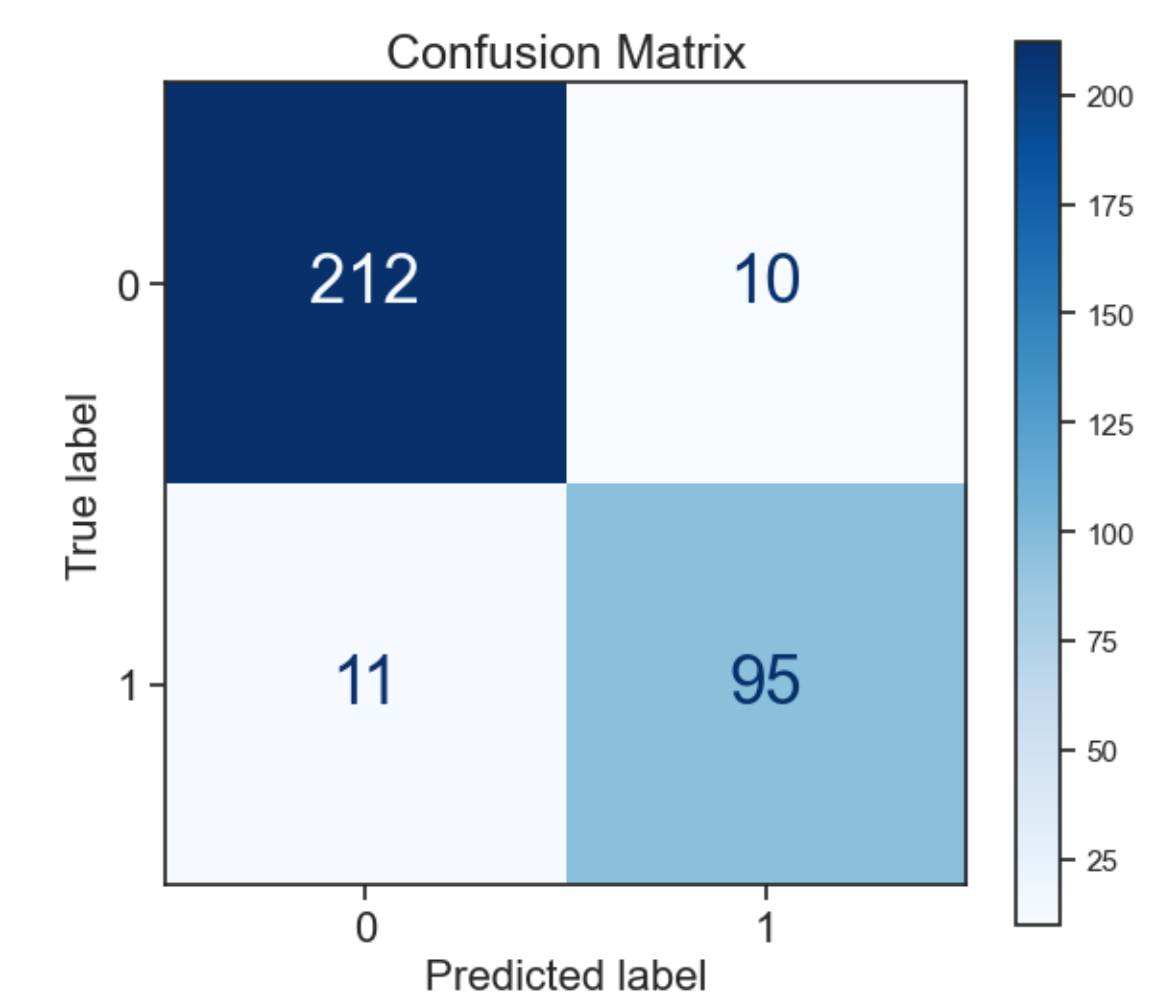


Protein: Q8WW43 - metric: balanced_accuracy

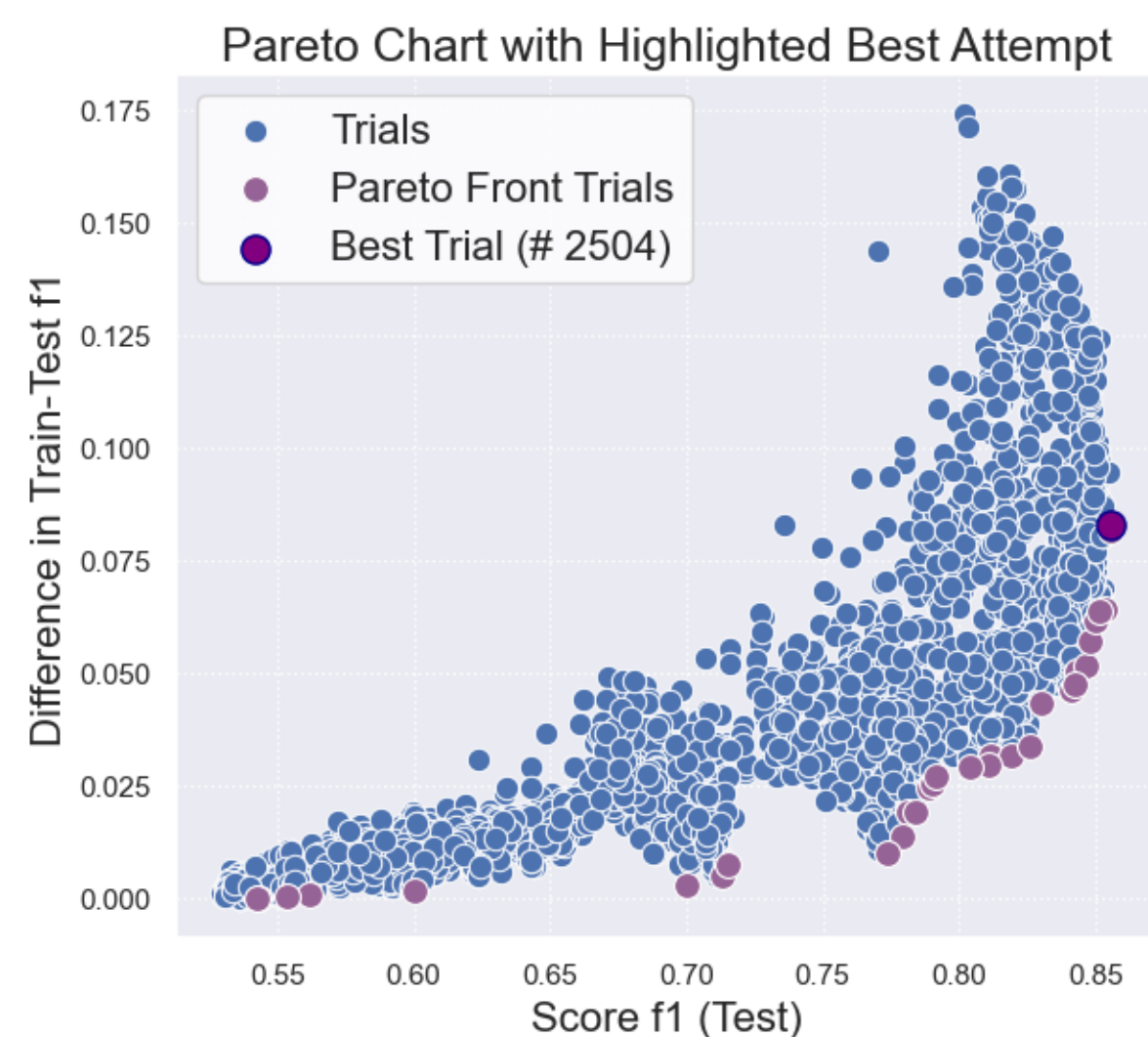
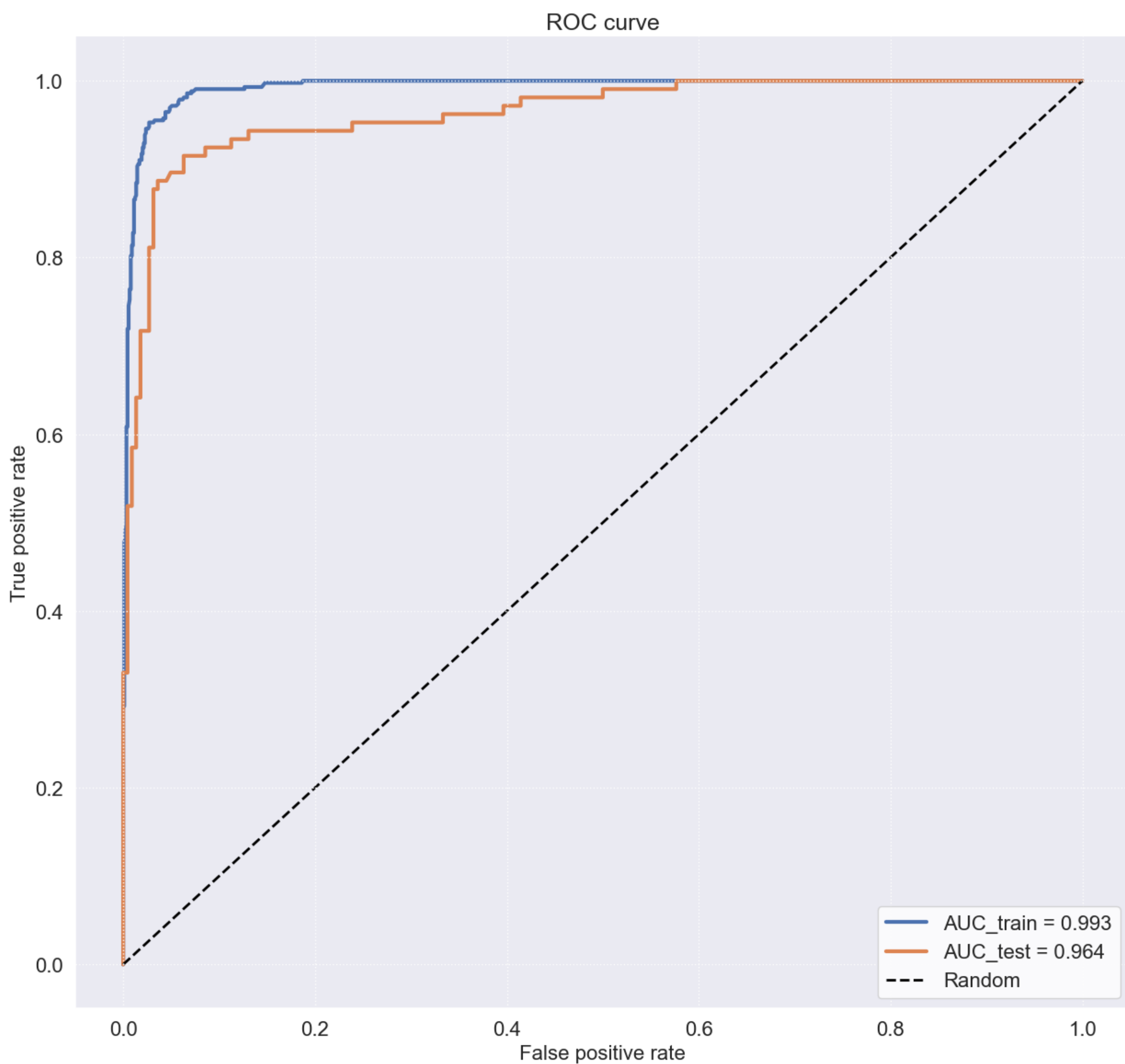
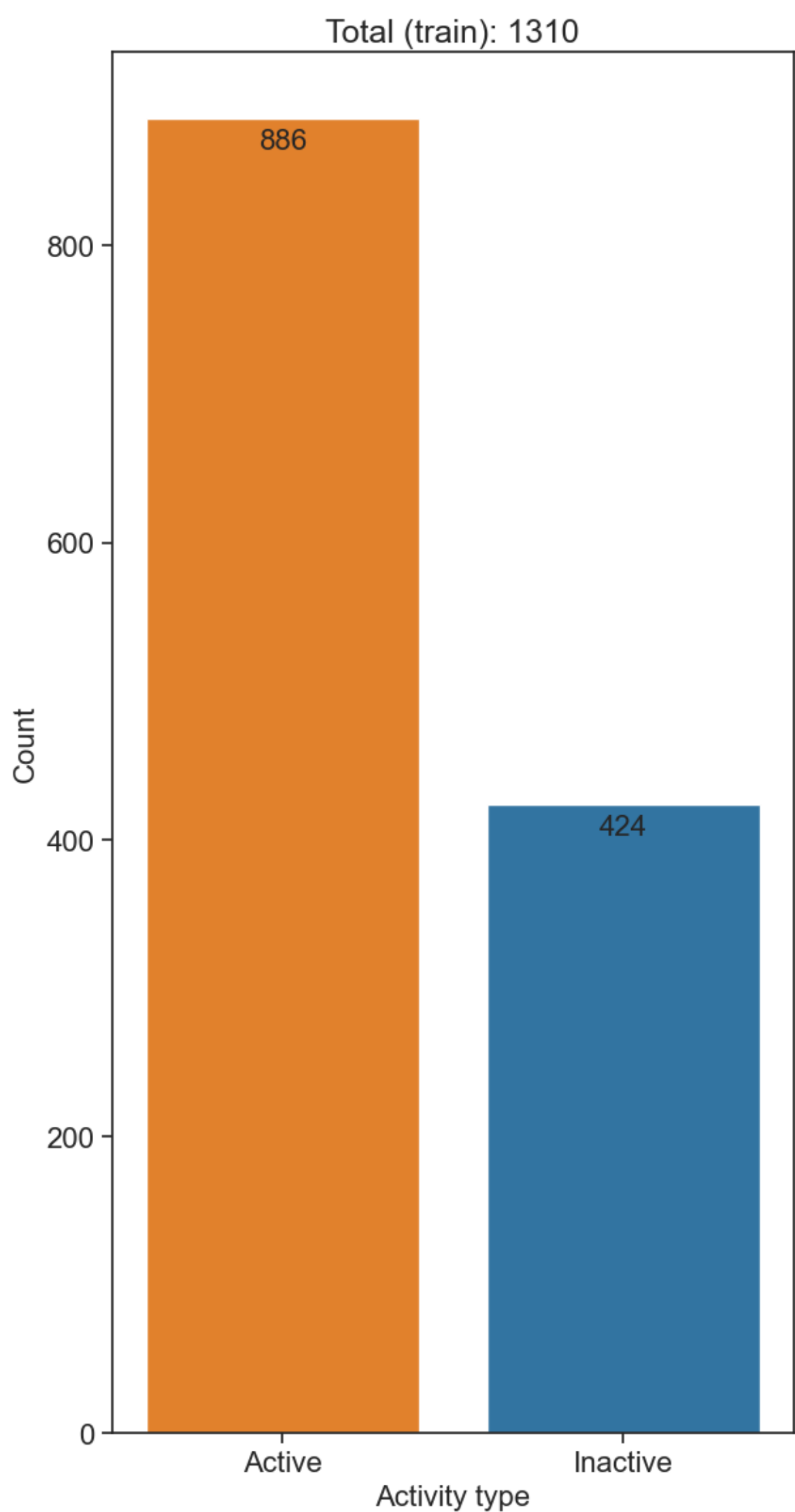


XGBoost Parameters	Value
alpha	4.2434
colsample_bytree	0.6024
gamma	0.4384
lambda	3.4211
learning_rate	0.0216
max_depth	8.0
min_child_weight	4.0
n_estimators	984.0
reg_alpha	0.6764
reg_lambda	0.6729
scale_pos_weight	1.3815
subsample	0.8151

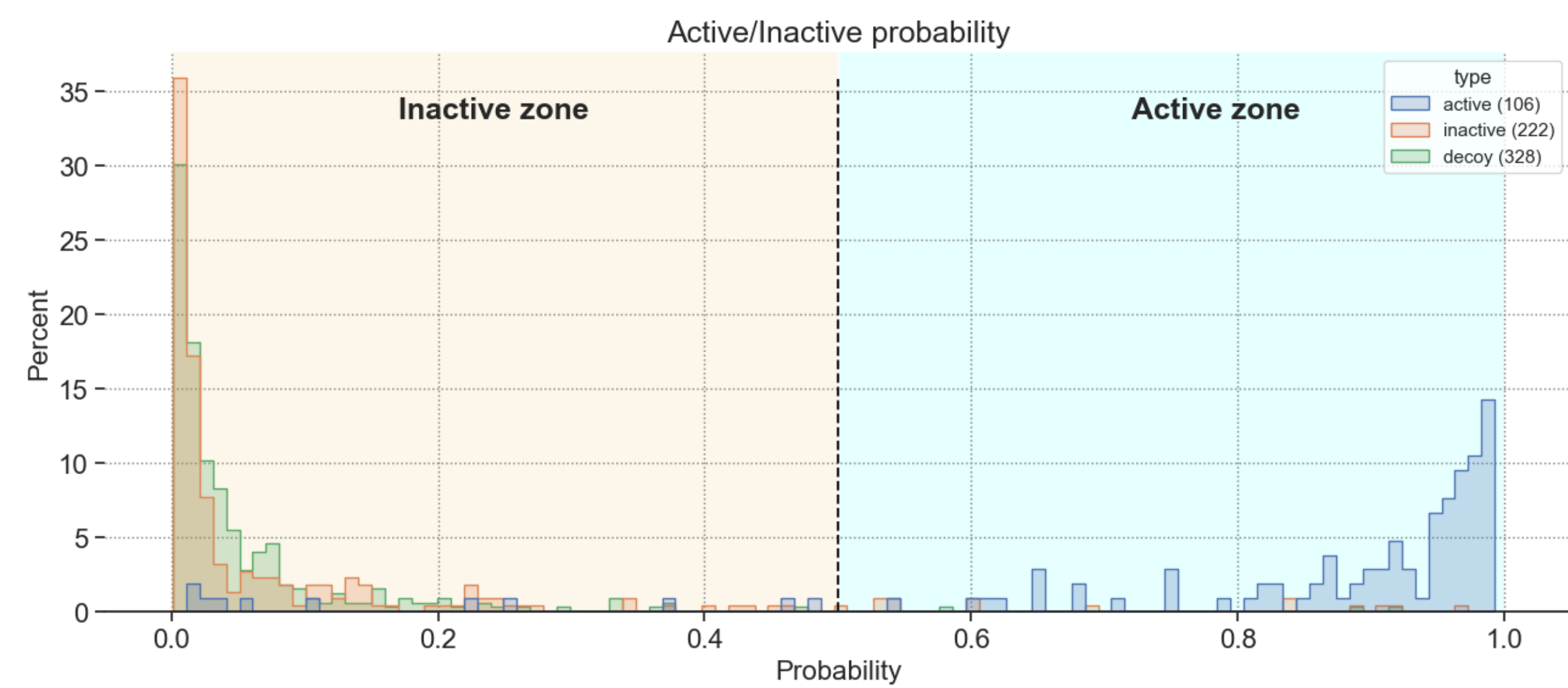
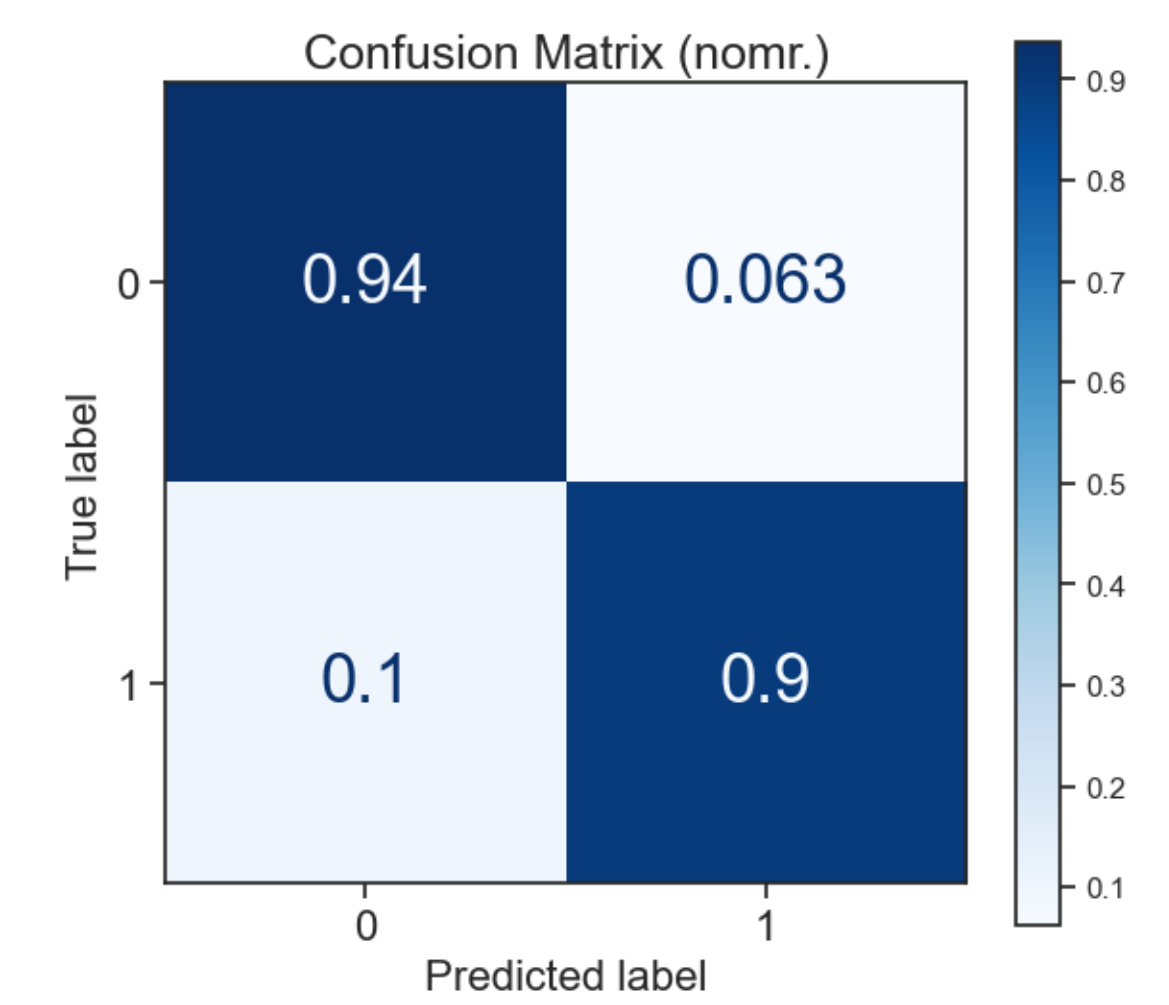
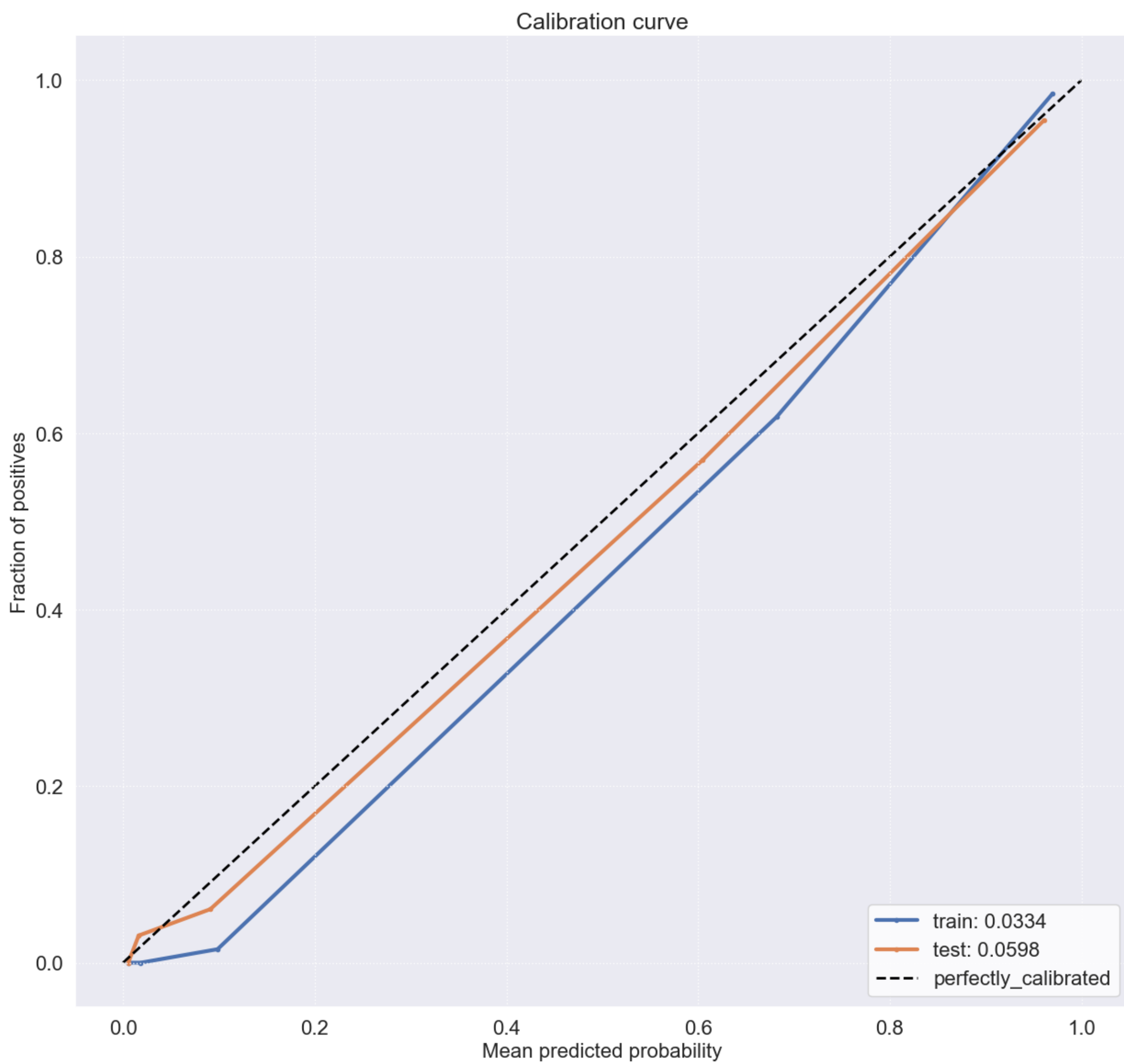
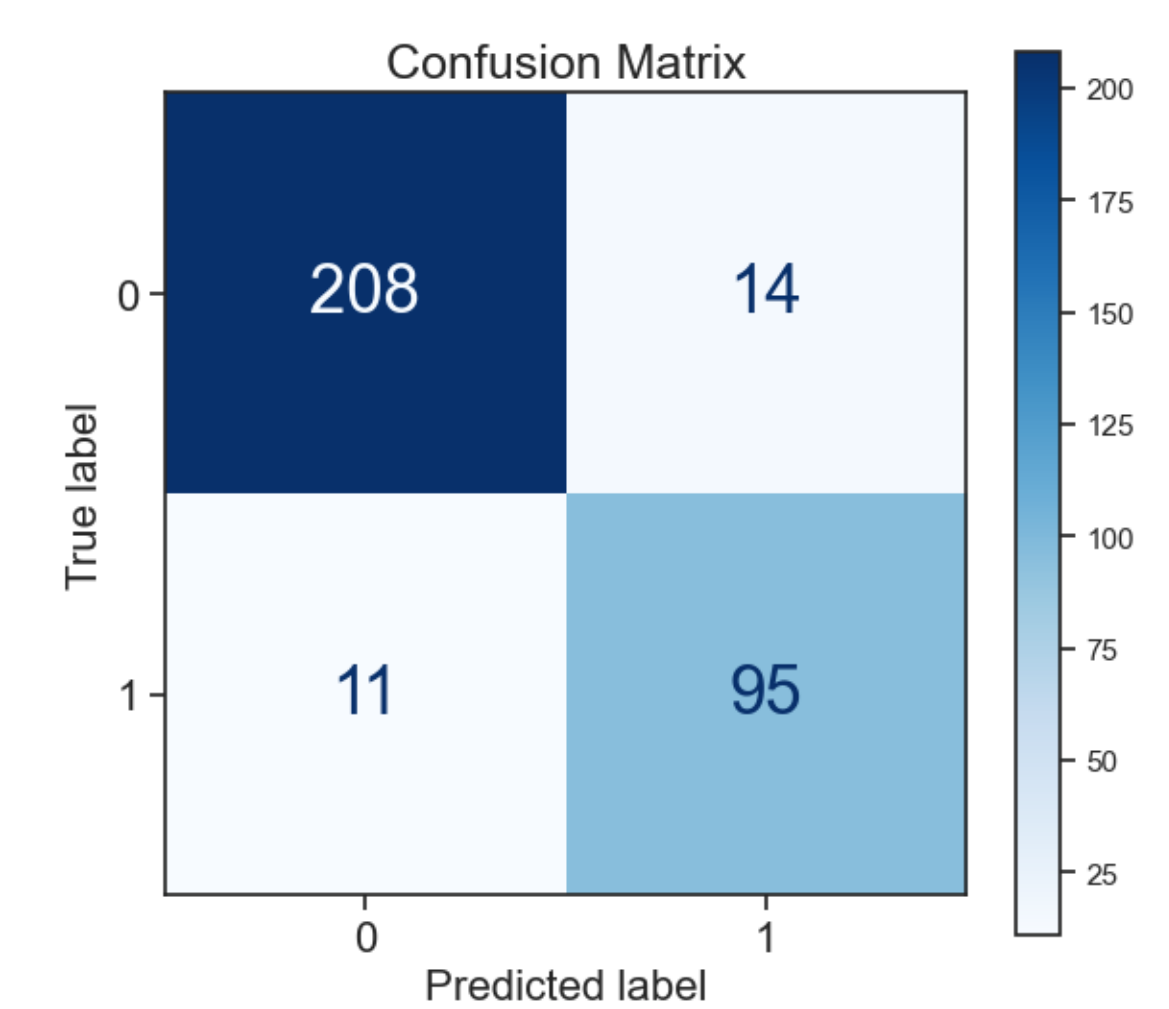


Metric	Train	Test
AUC	0.9919	0.9637
accuracy	0.9611	0.936
balanced accuracy	0.9589	0.9256
recall_(sens)	0.9528	0.8962
specificity	0.965	0.955
precision	0.9287	0.9048
f1_score	0.9612	0.9359

Protein: Q8WW43 - metric: f1

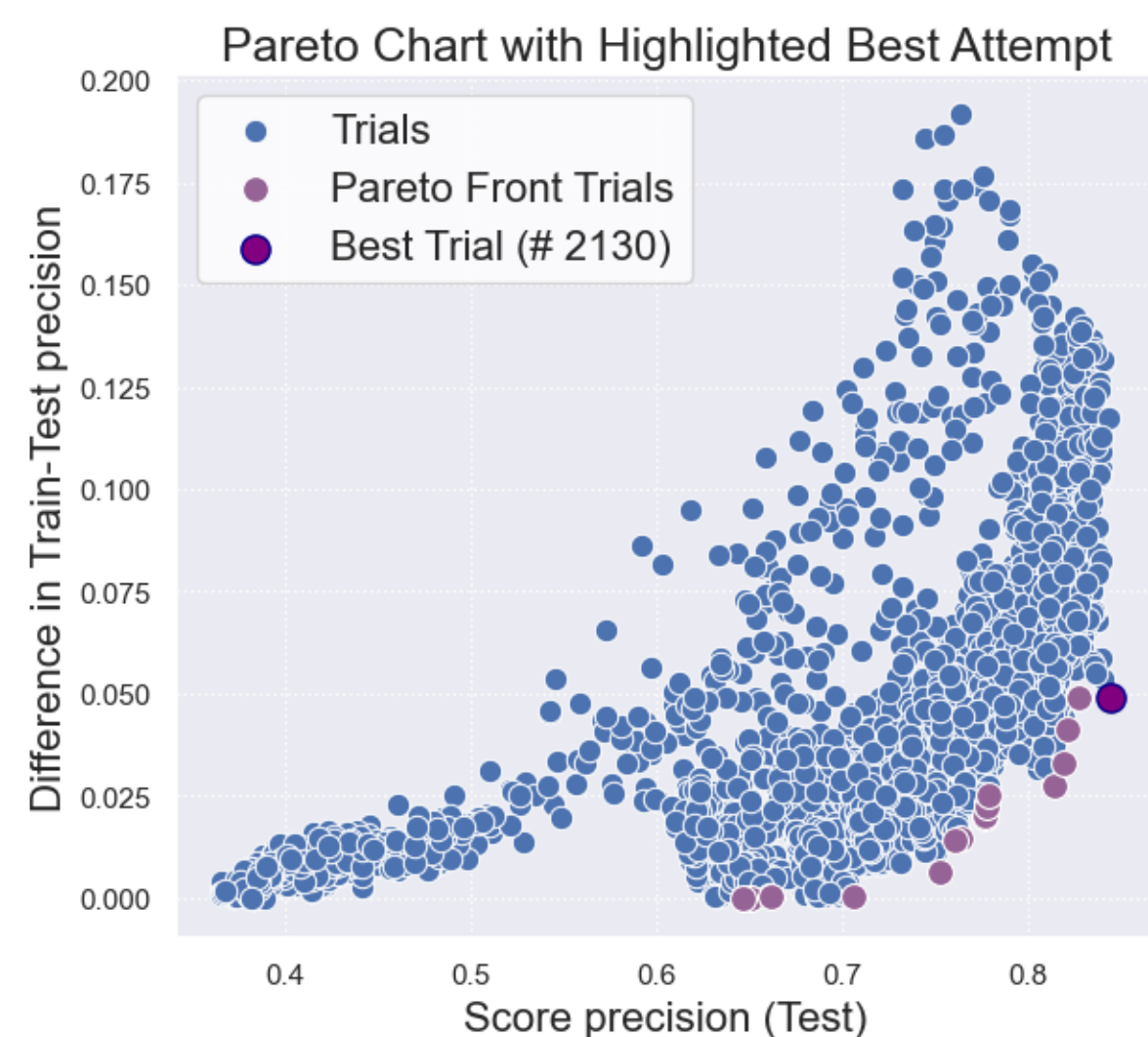
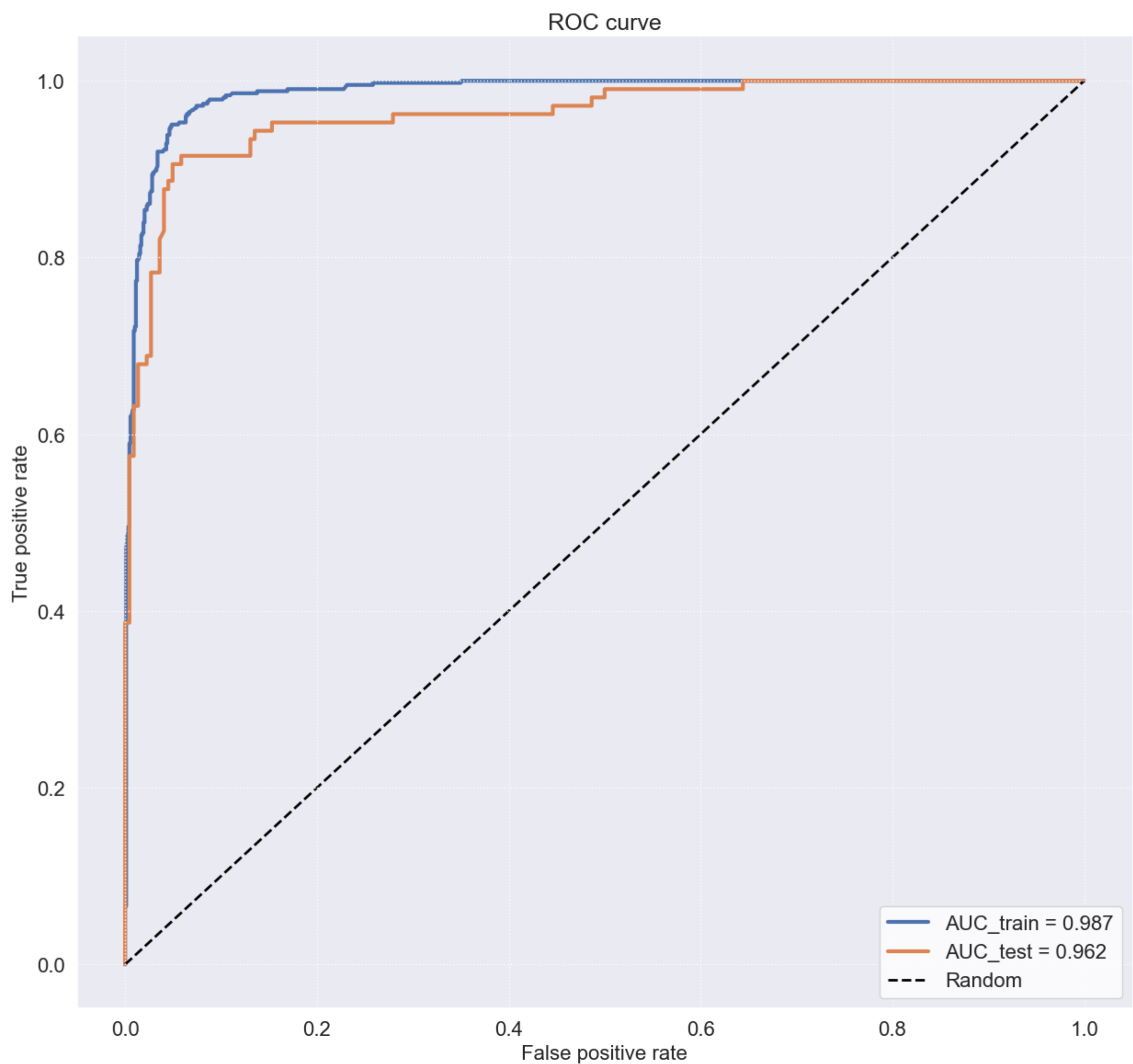
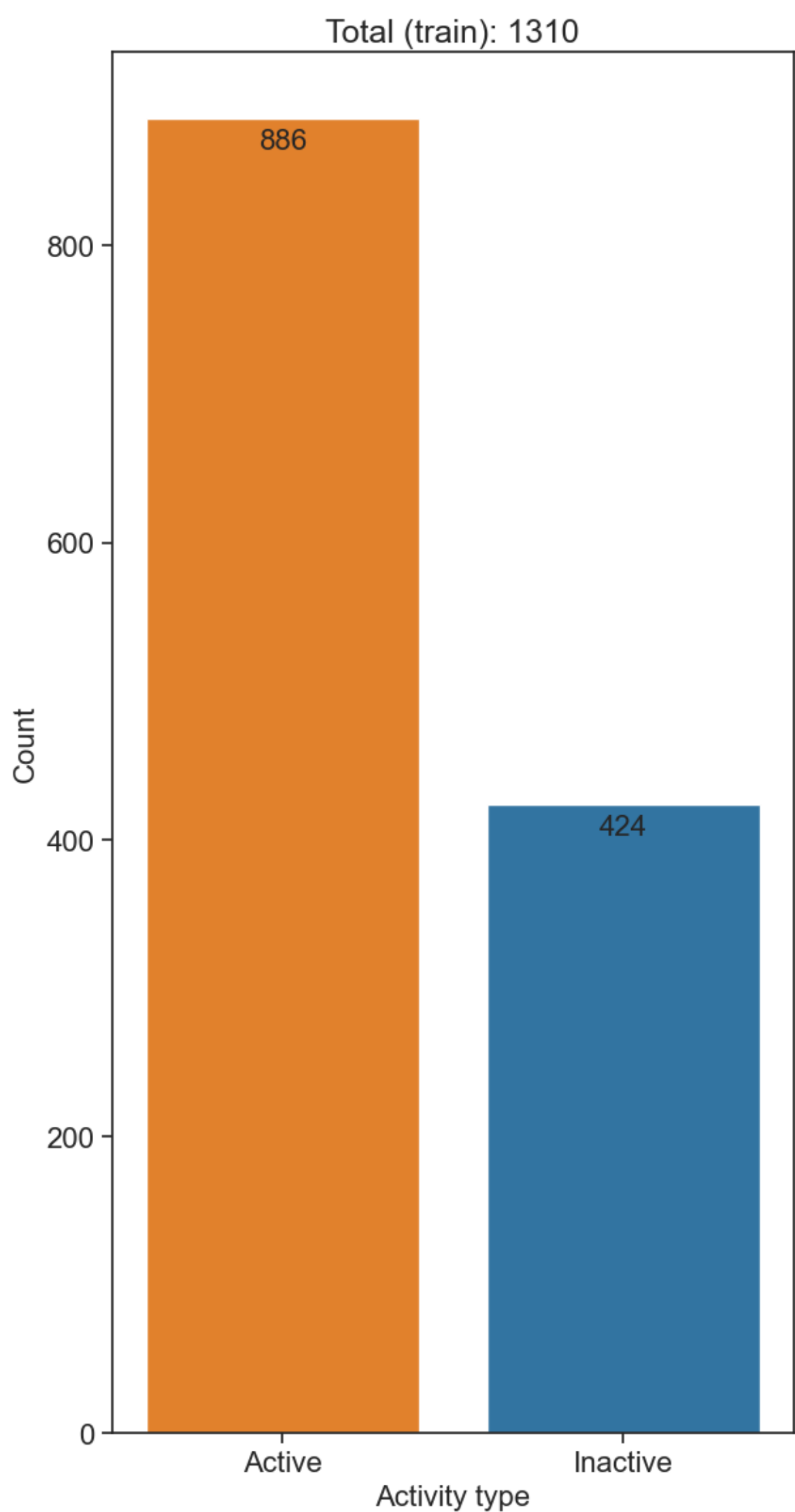


XGBoost Parameters	Value
alpha	3.073
colsample_bytree	0.7226
gamma	0.7225
lambda	0.9853
learning_rate	0.0168
max_depth	9.0
min_child_weight	3.0
n_estimators	709.0
reg_alpha	0.7171
reg_lambda	0.0202
scale_pos_weight	2.0469
subsample	0.6586

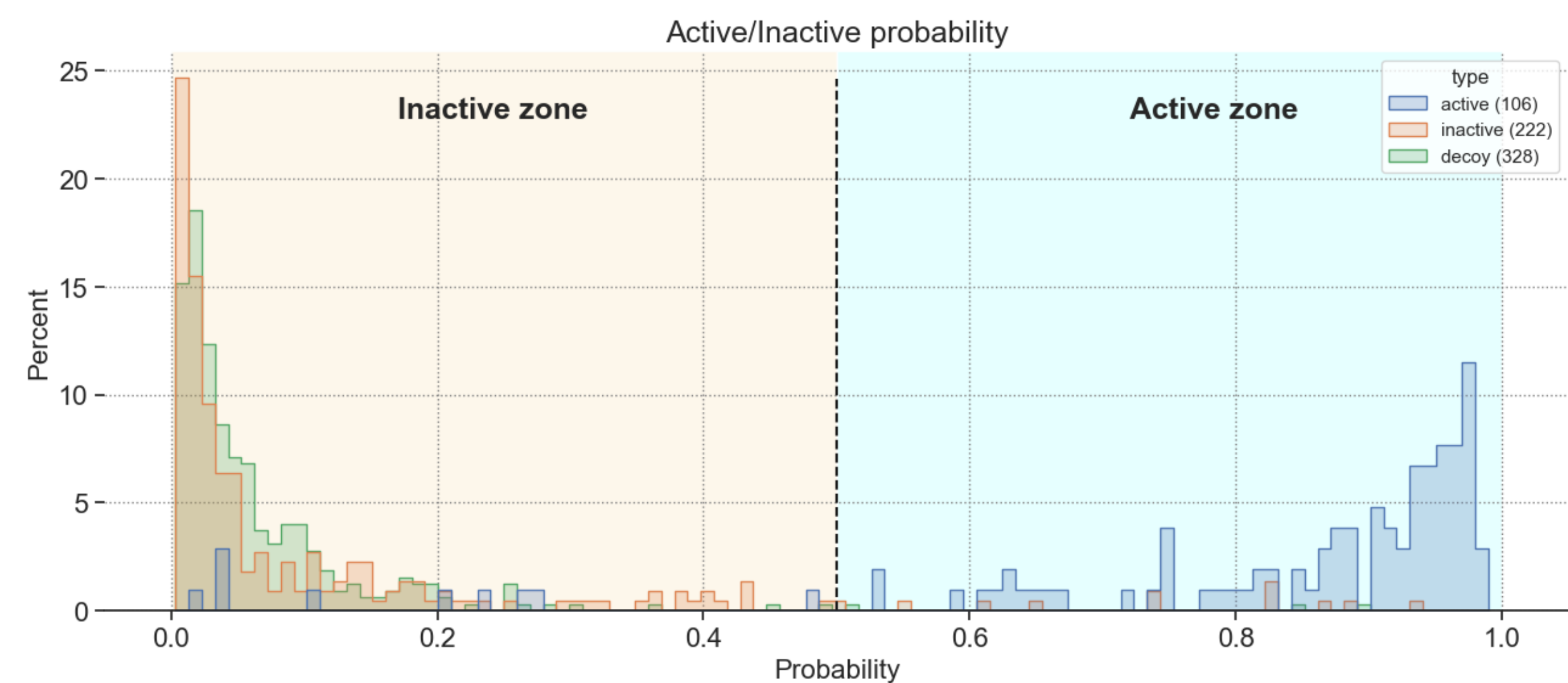
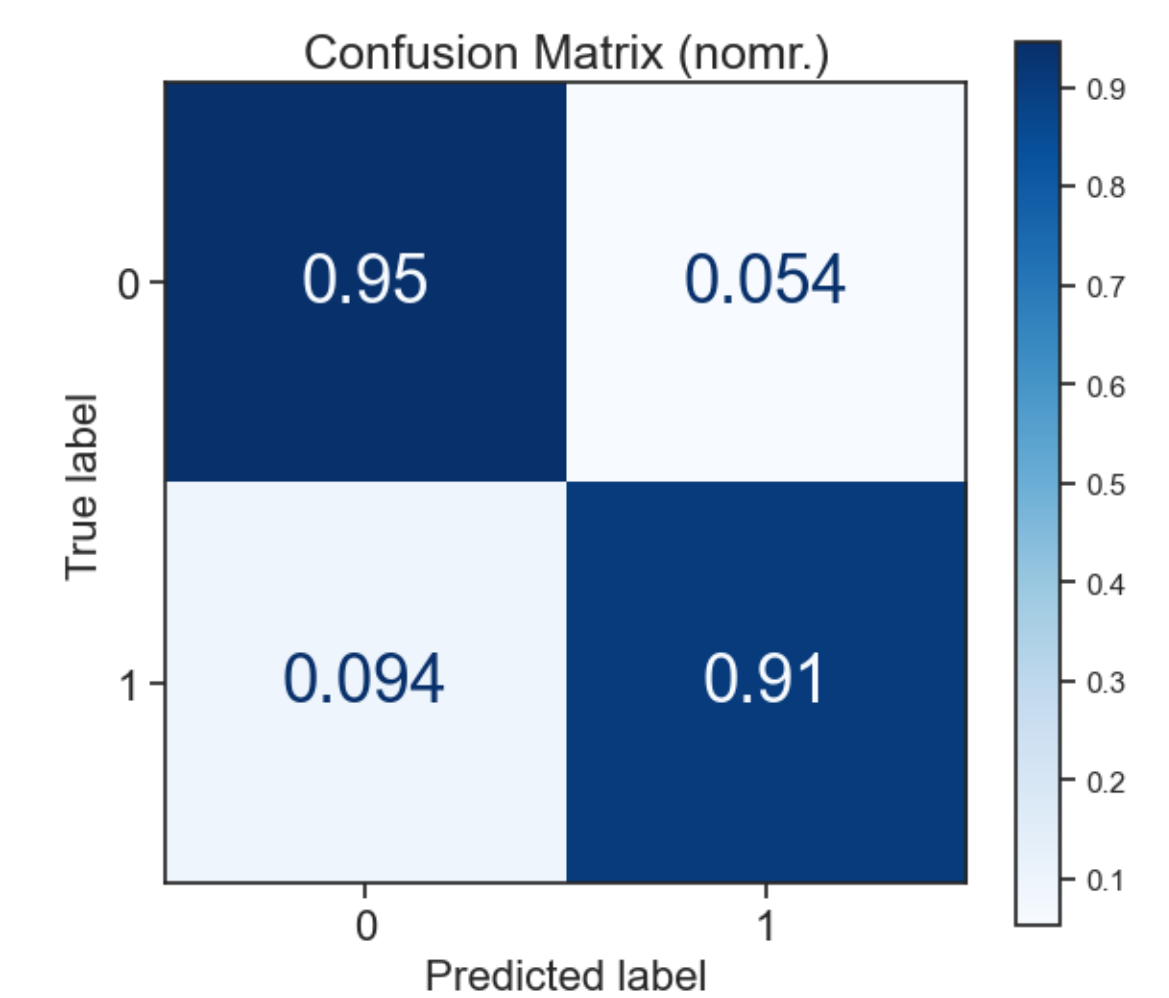
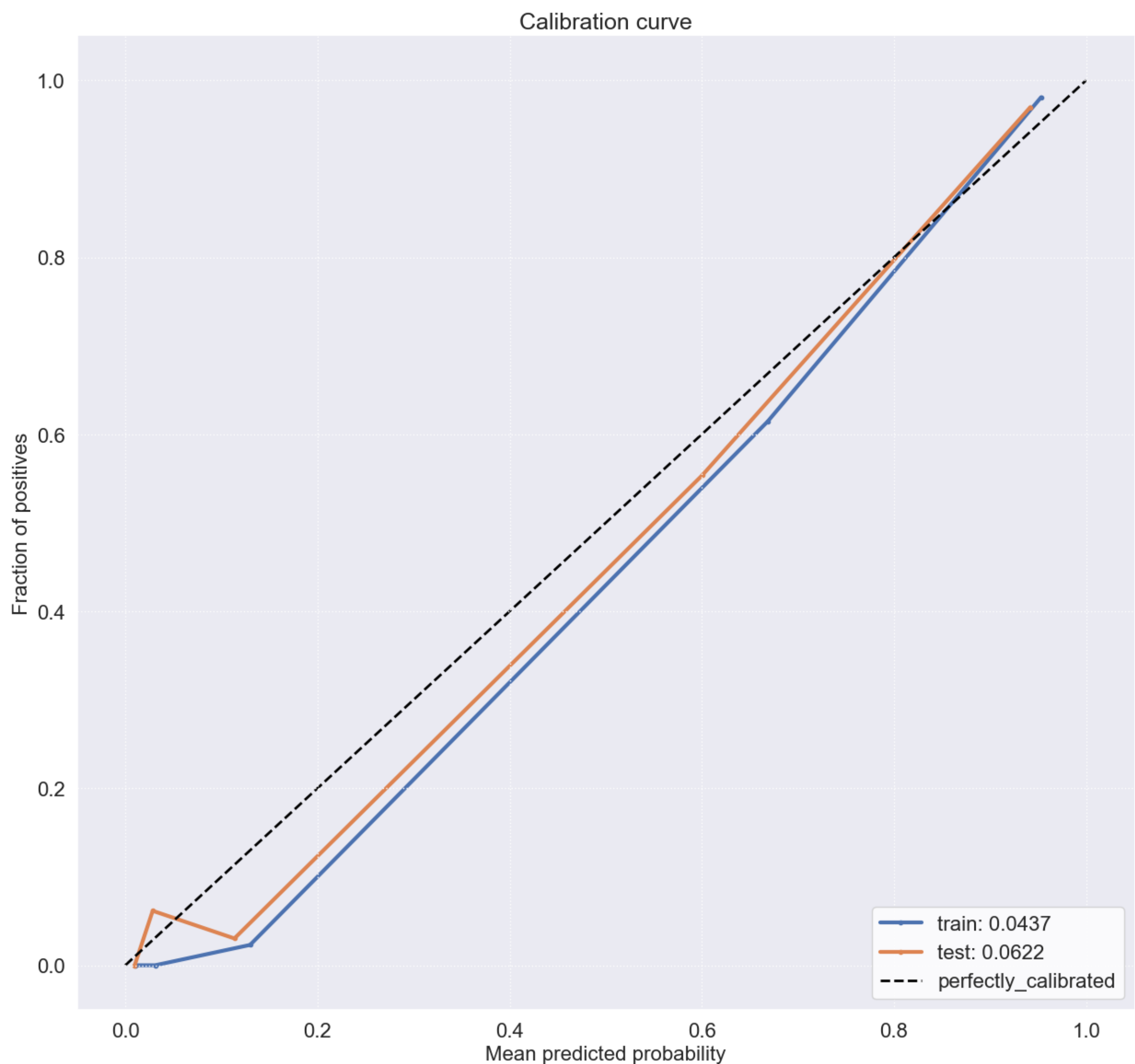
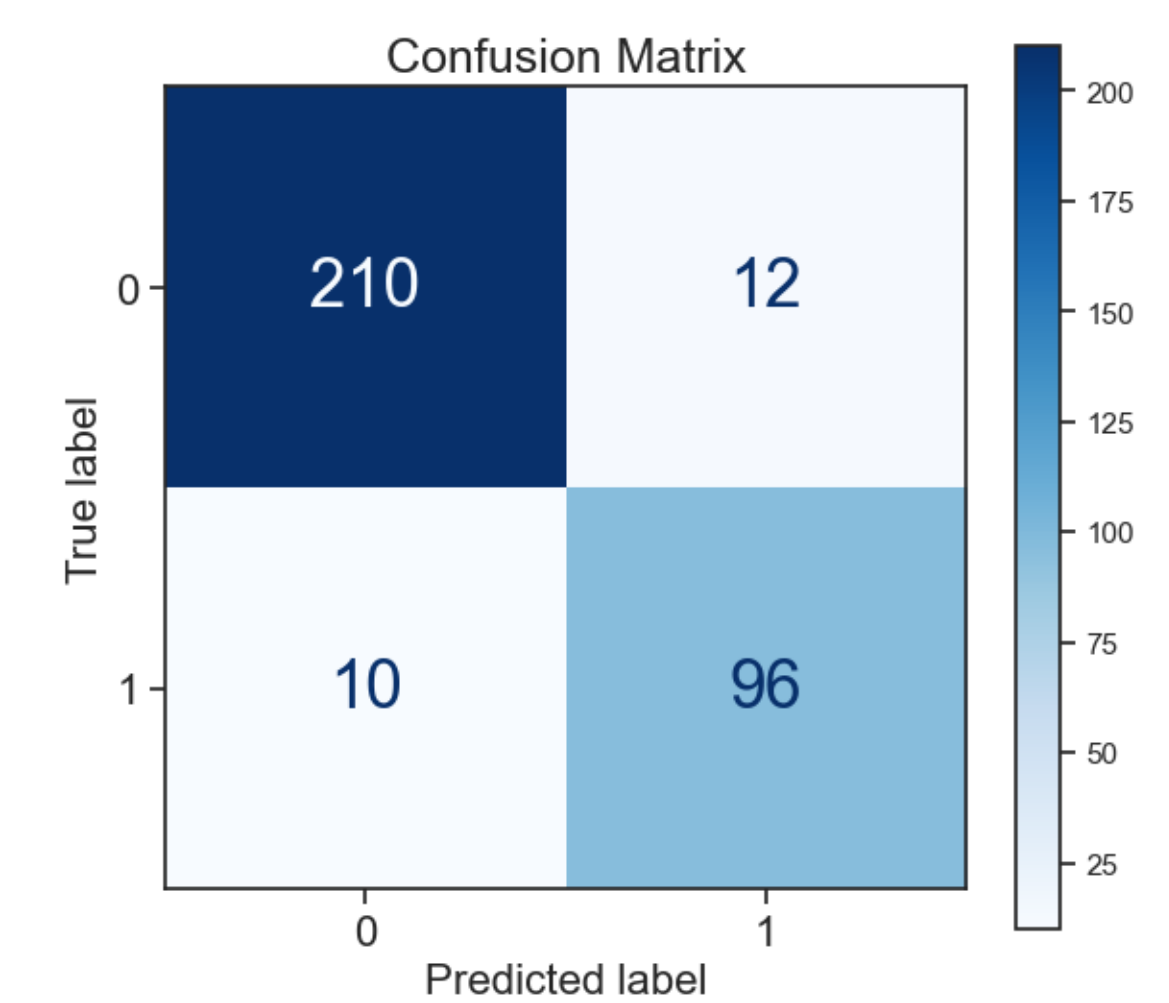


Metric	Train	Test
AUC	0.9926	0.9635
accuracy	0.9573	0.9238
balanced accuracy	0.9604	0.9166
recall_(sens)	0.9693	0.8962
specificity	0.9515	0.9369
precision	0.9053	0.8716
f1_score	0.9576	0.9241

Protein: Q8WW43 - metric: precision

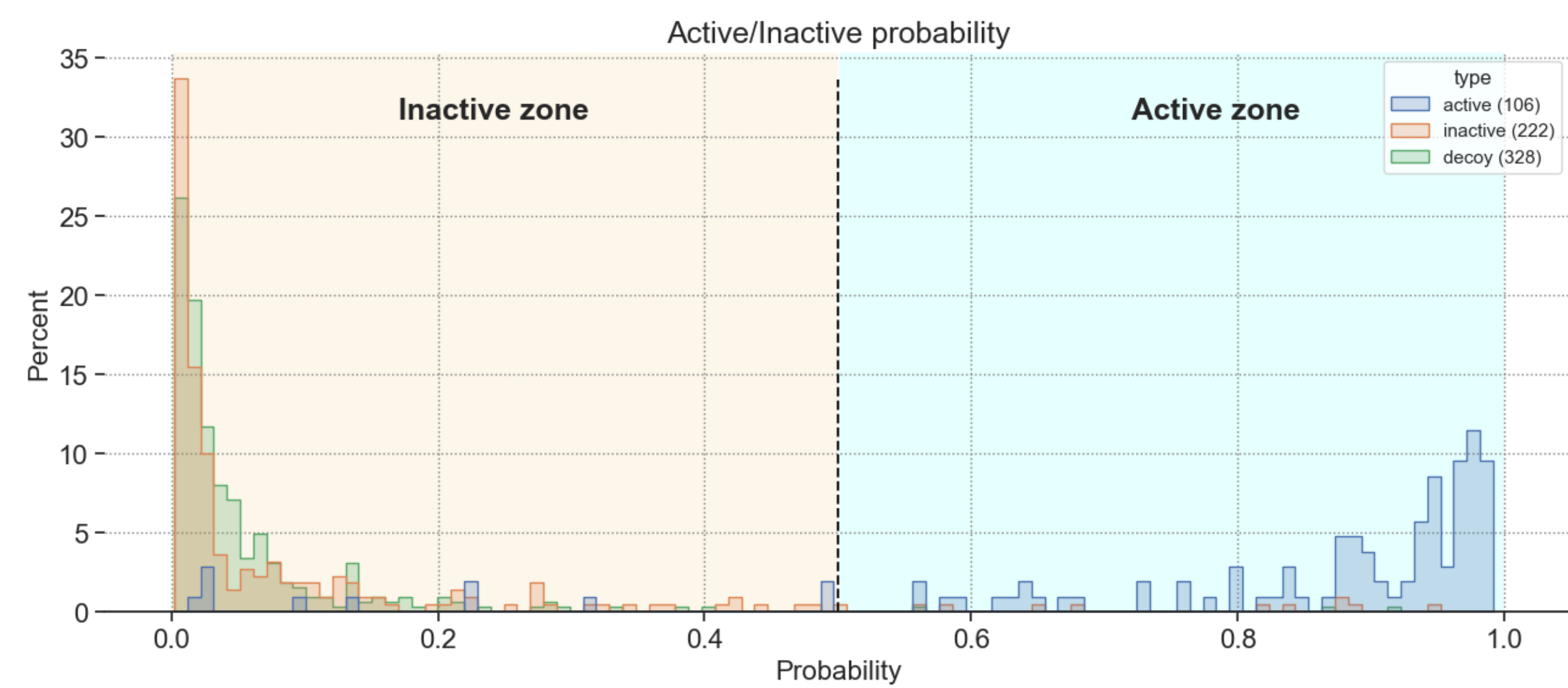
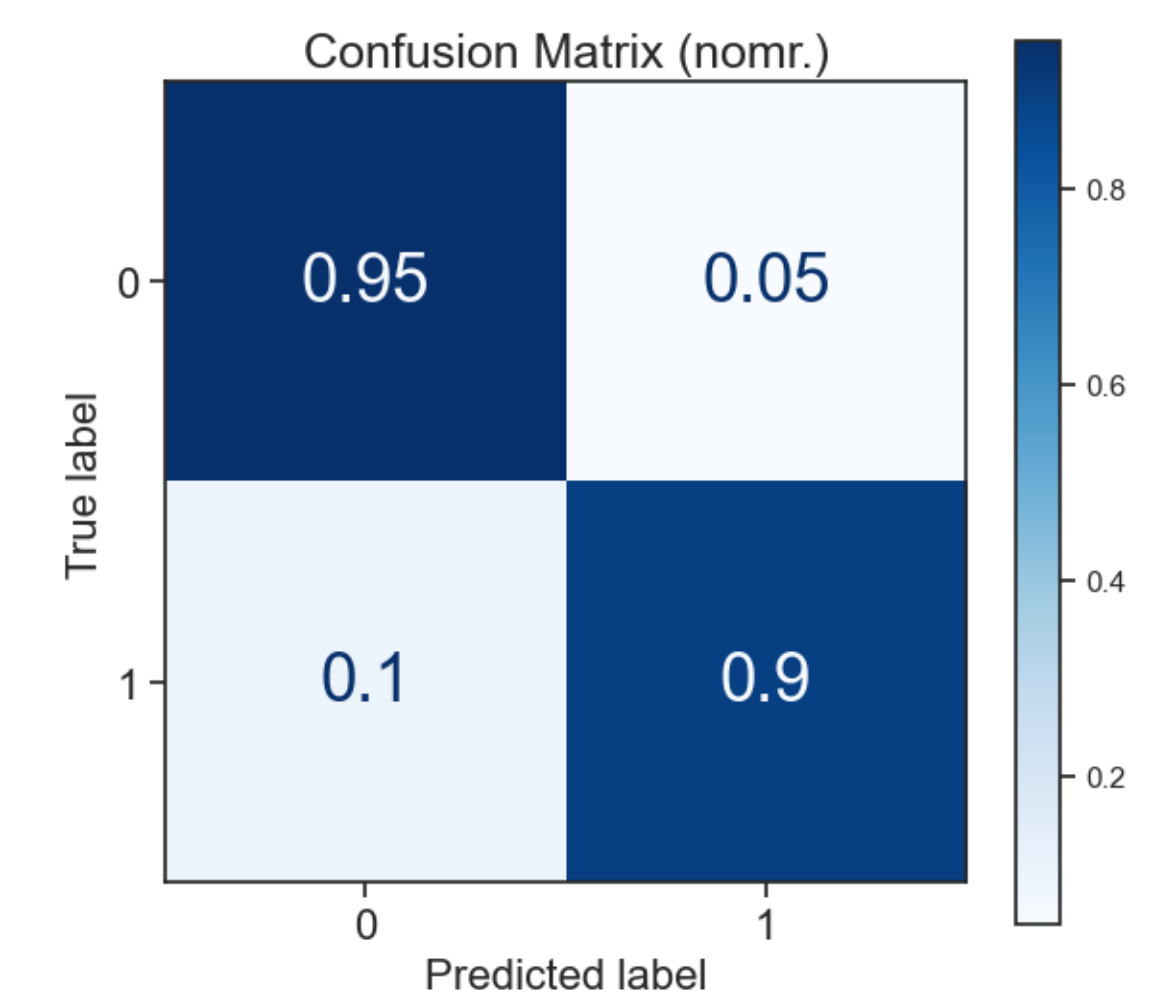
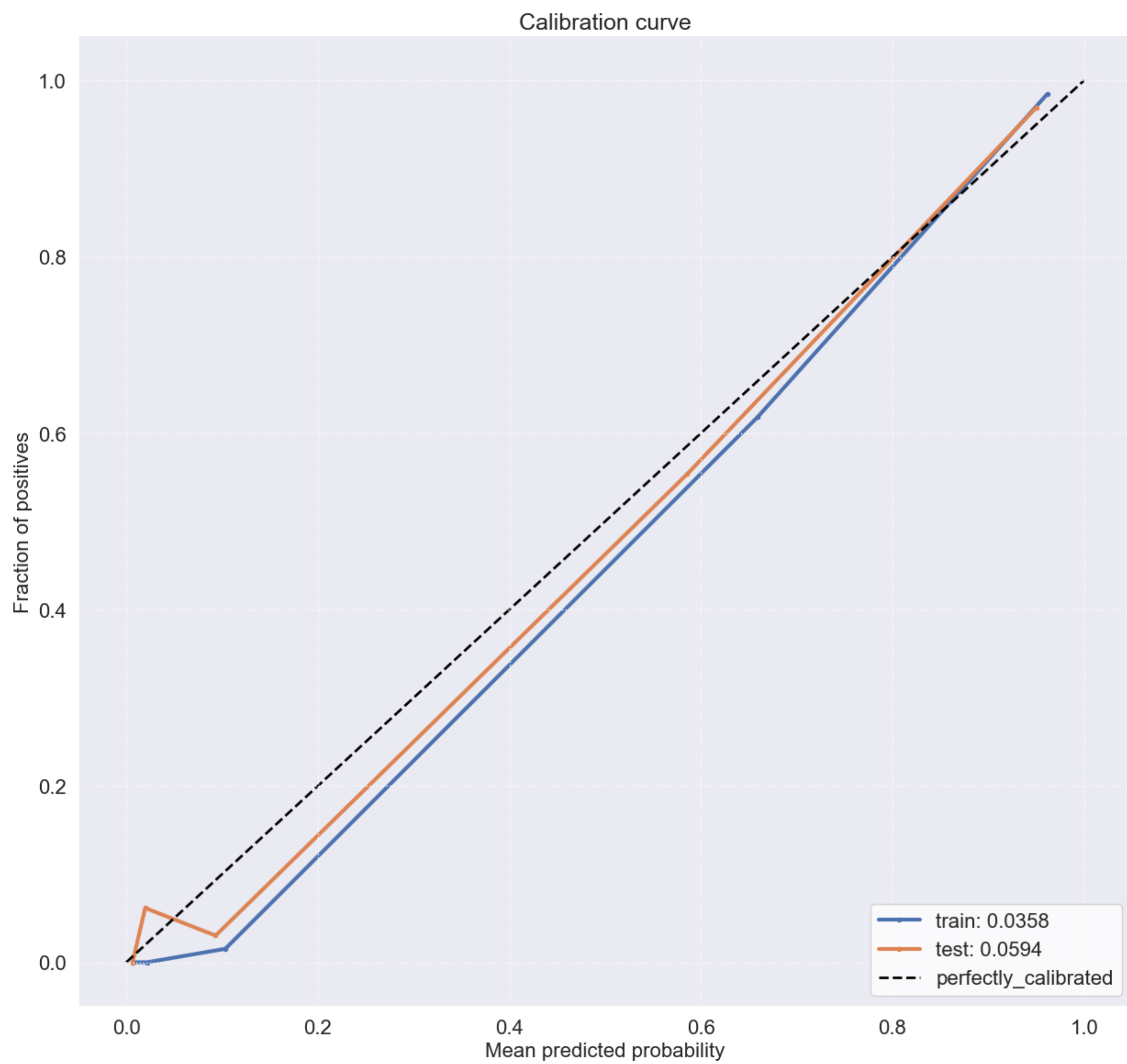
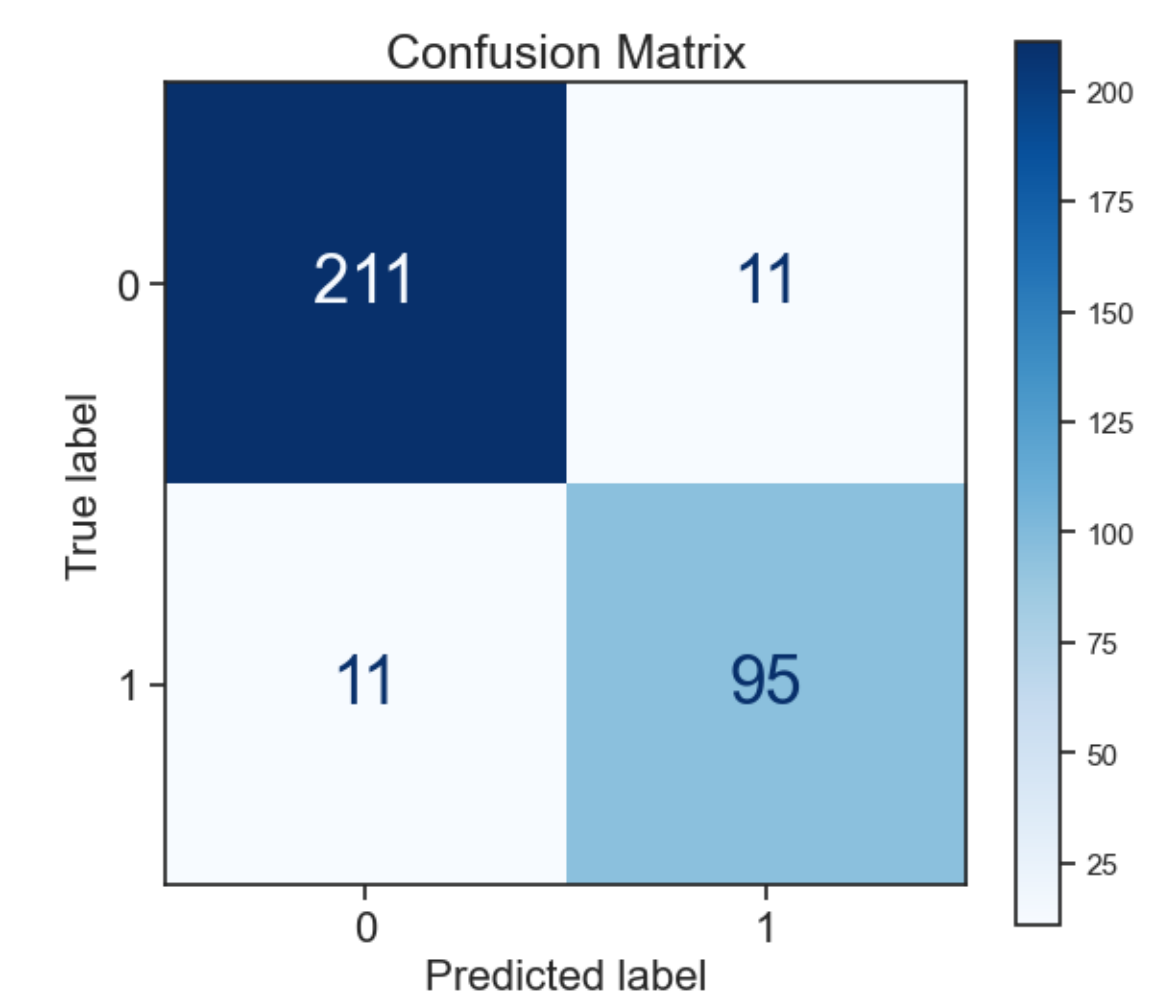
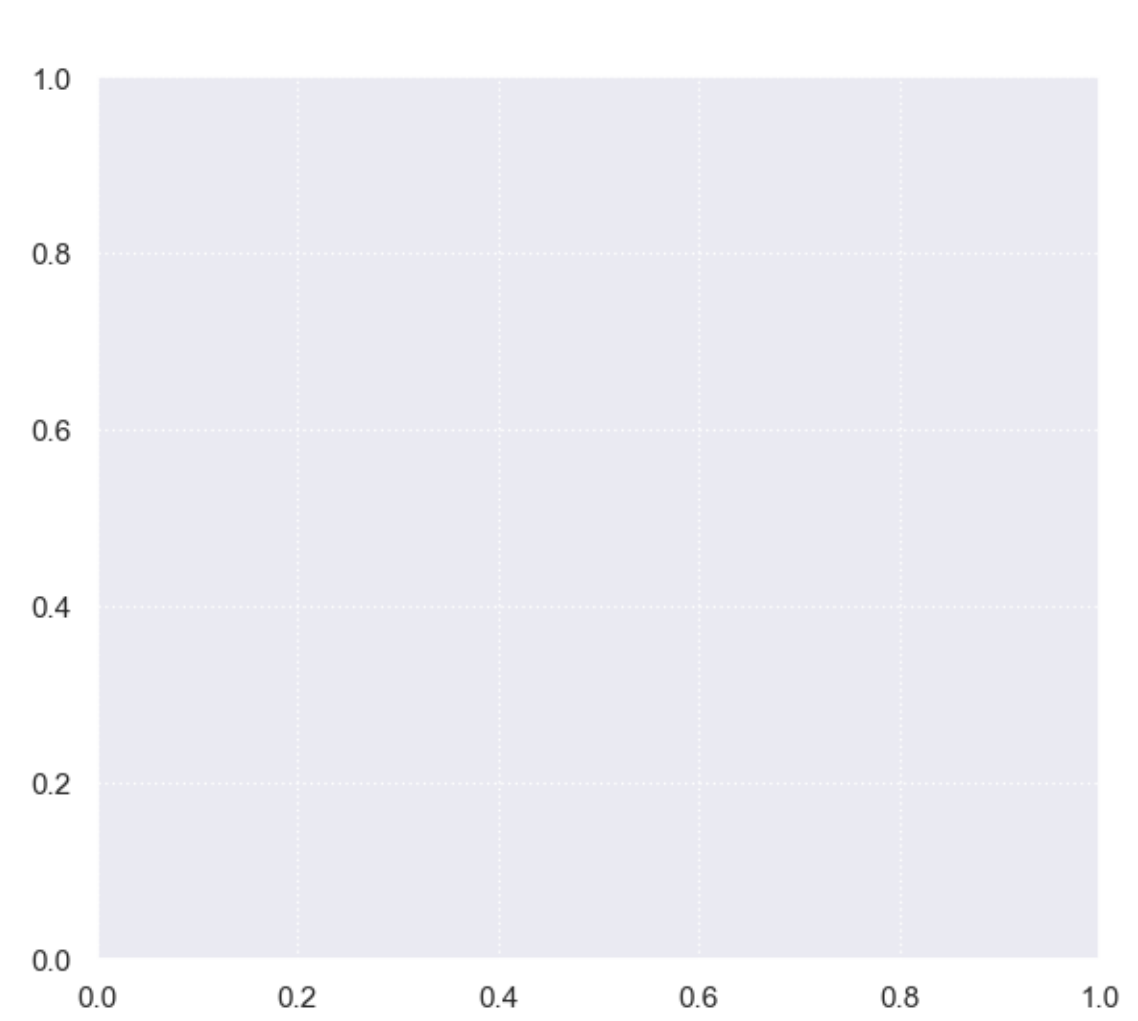
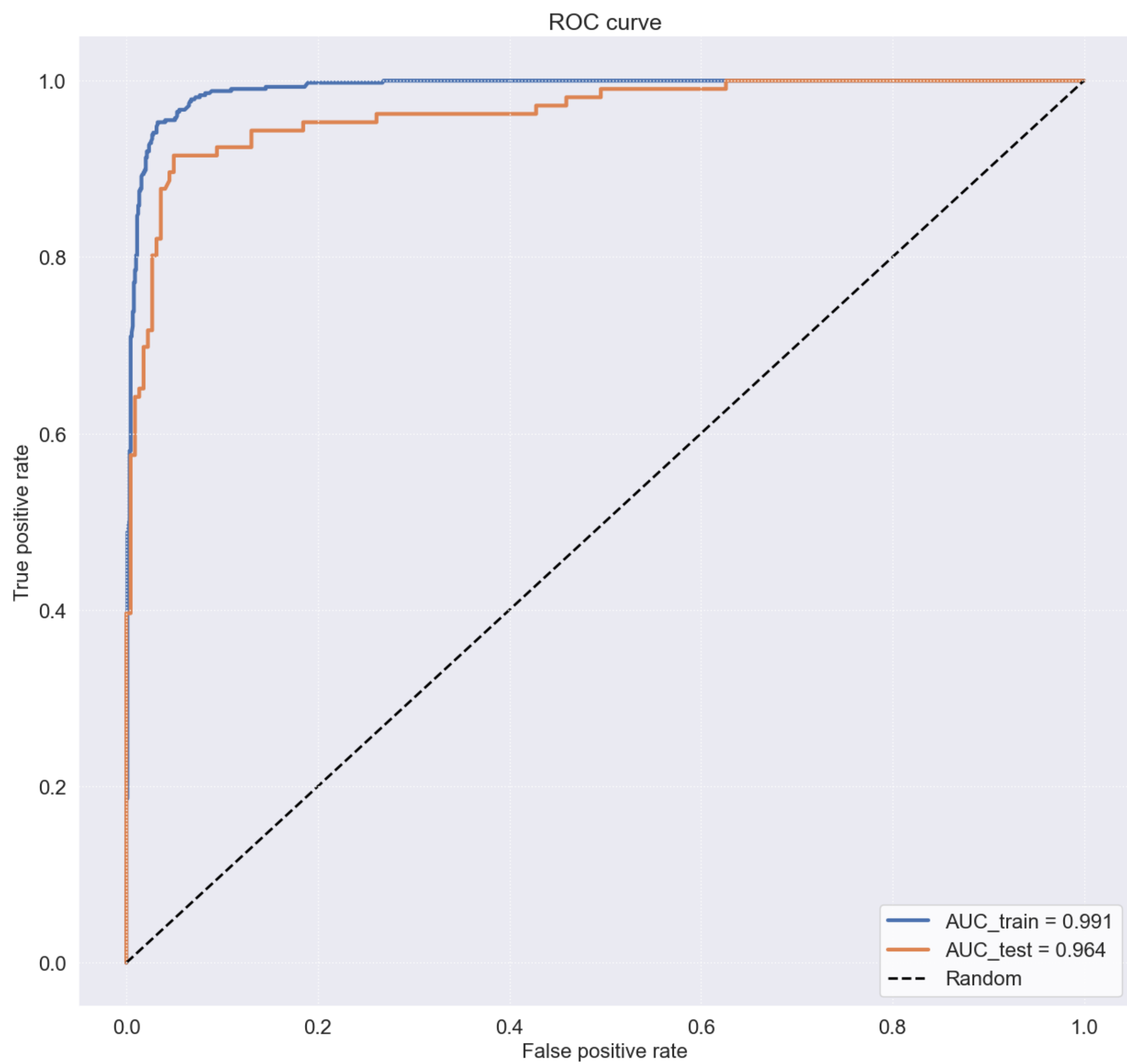
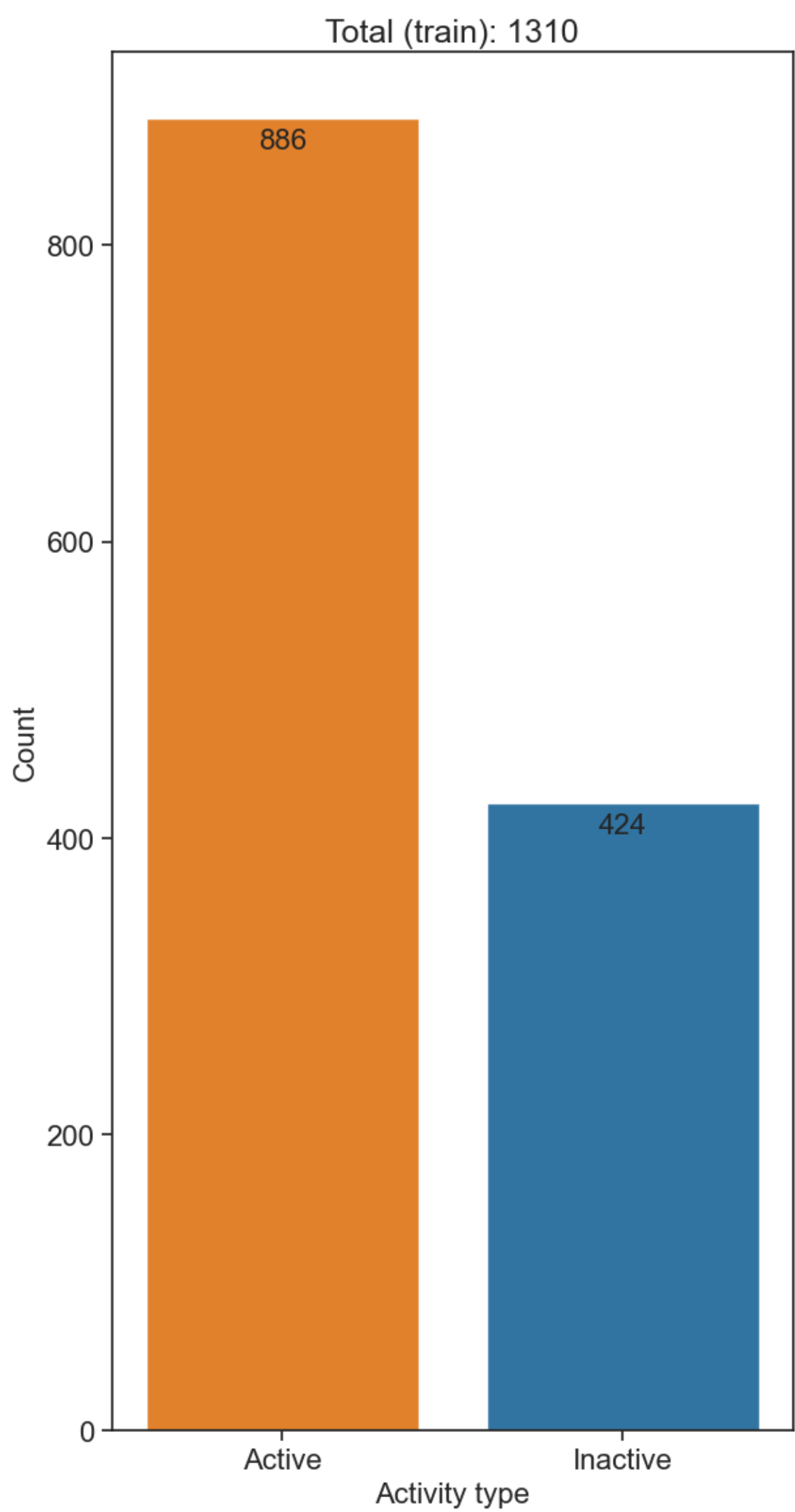


XGBoost Parameters	Value
alpha	2.4557
colsample_bytree	0.5156
gamma	0.0698
lambda	1.6488
learning_rate	0.023
max_depth	9.0
min_child_weight	3.0
n_estimators	367.0
reg_alpha	0.8701
reg_lambda	0.3158
scale_pos_weight	1.9598
subsample	0.5131



Metric	Train	Test
AUC	0.9868	0.9623
accuracy	0.9466	0.9329
balanced accuracy	0.9482	0.9258
recall_(sens)	0.9528	0.9057
specificity	0.9436	0.9459
precision	0.8899	0.8889
f1_score	0.947	0.9331

Protein: Q8WW43 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9911	0.964
accuracy	0.9542	0.9329
balanced accuracy	0.9545	0.9233
recall_(sens)	0.9552	0.8962
specificity	0.9537	0.9505
precision	0.9081	0.8962
f1_score	0.9545	0.9329