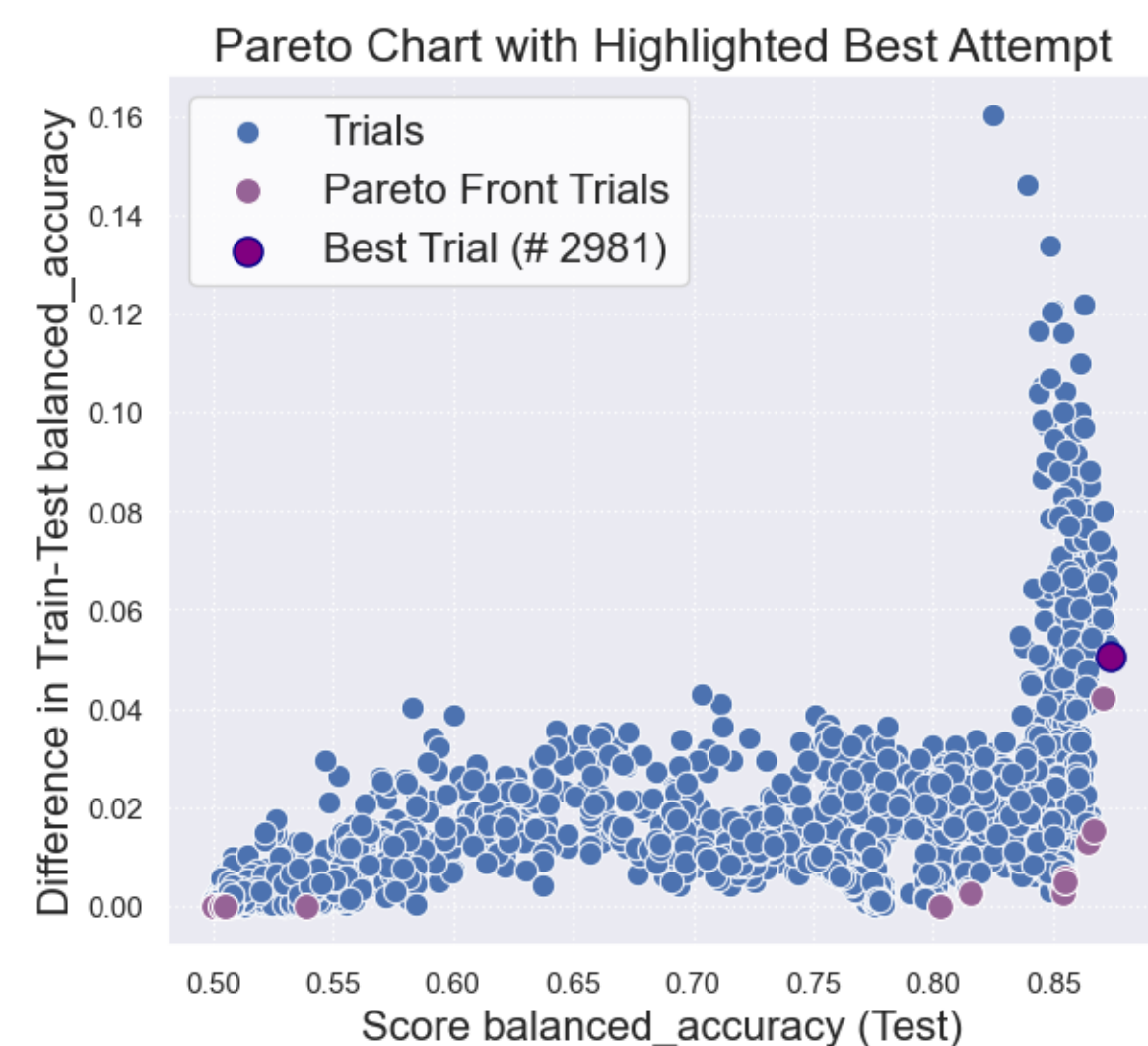
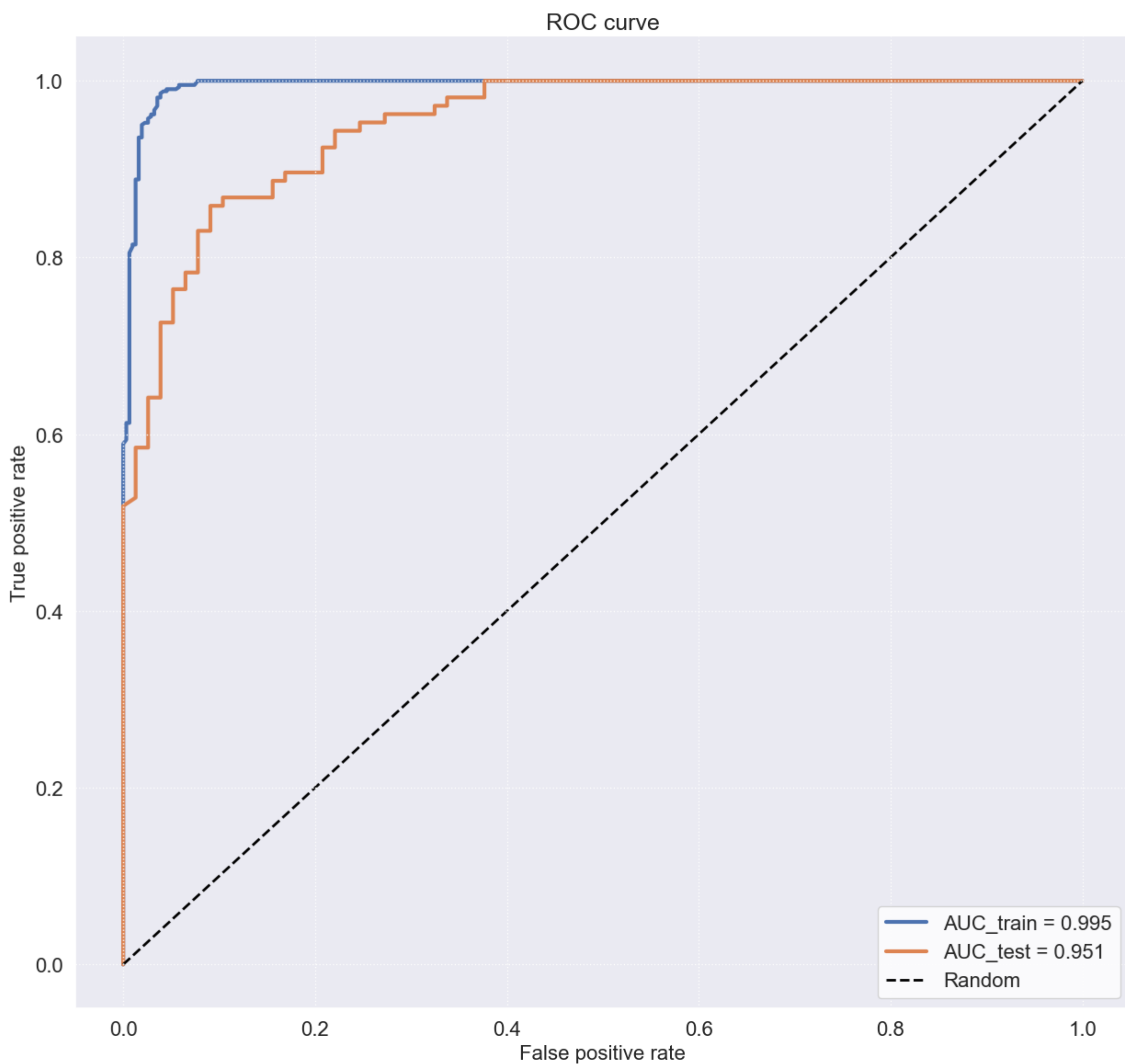
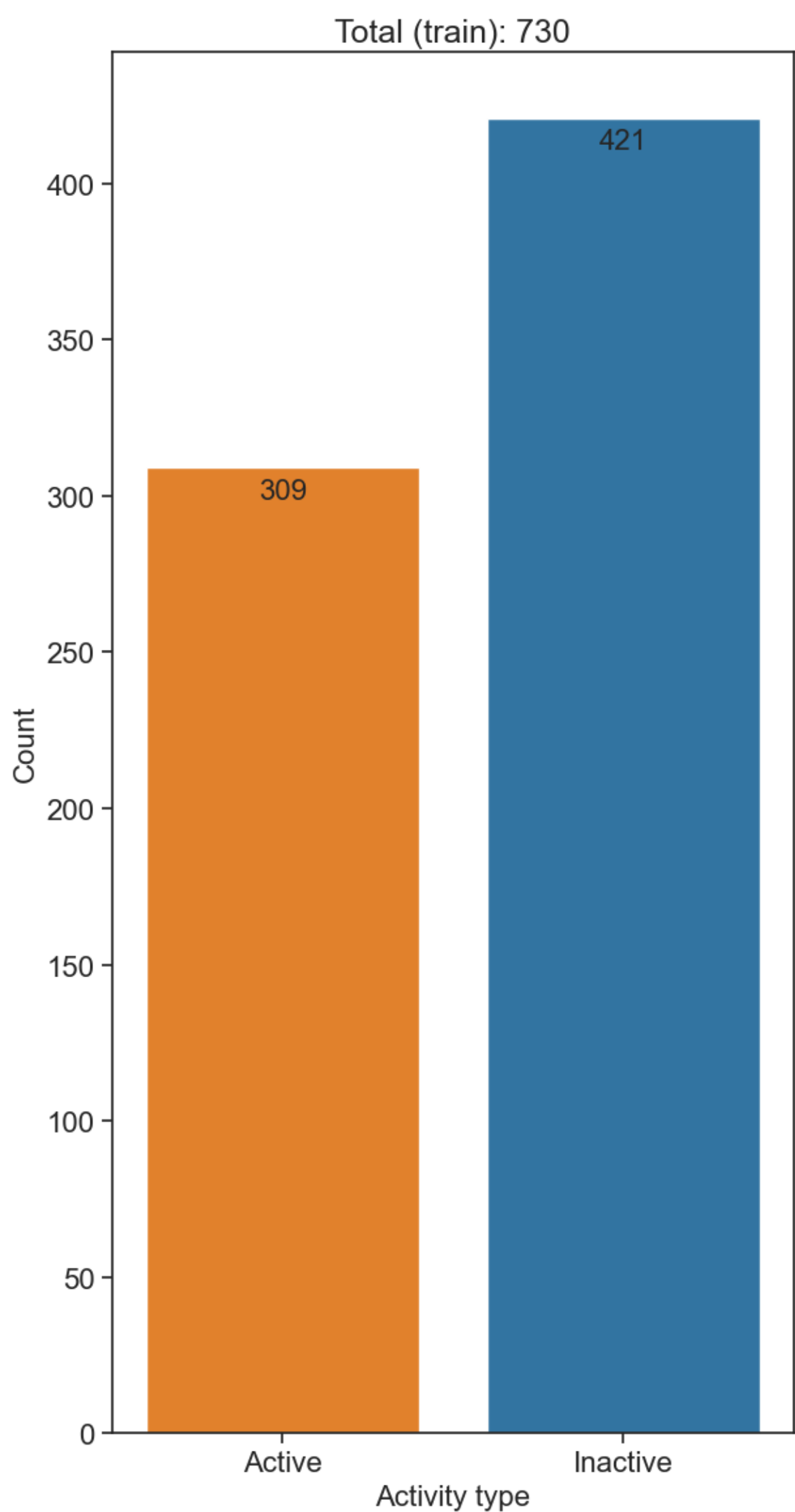
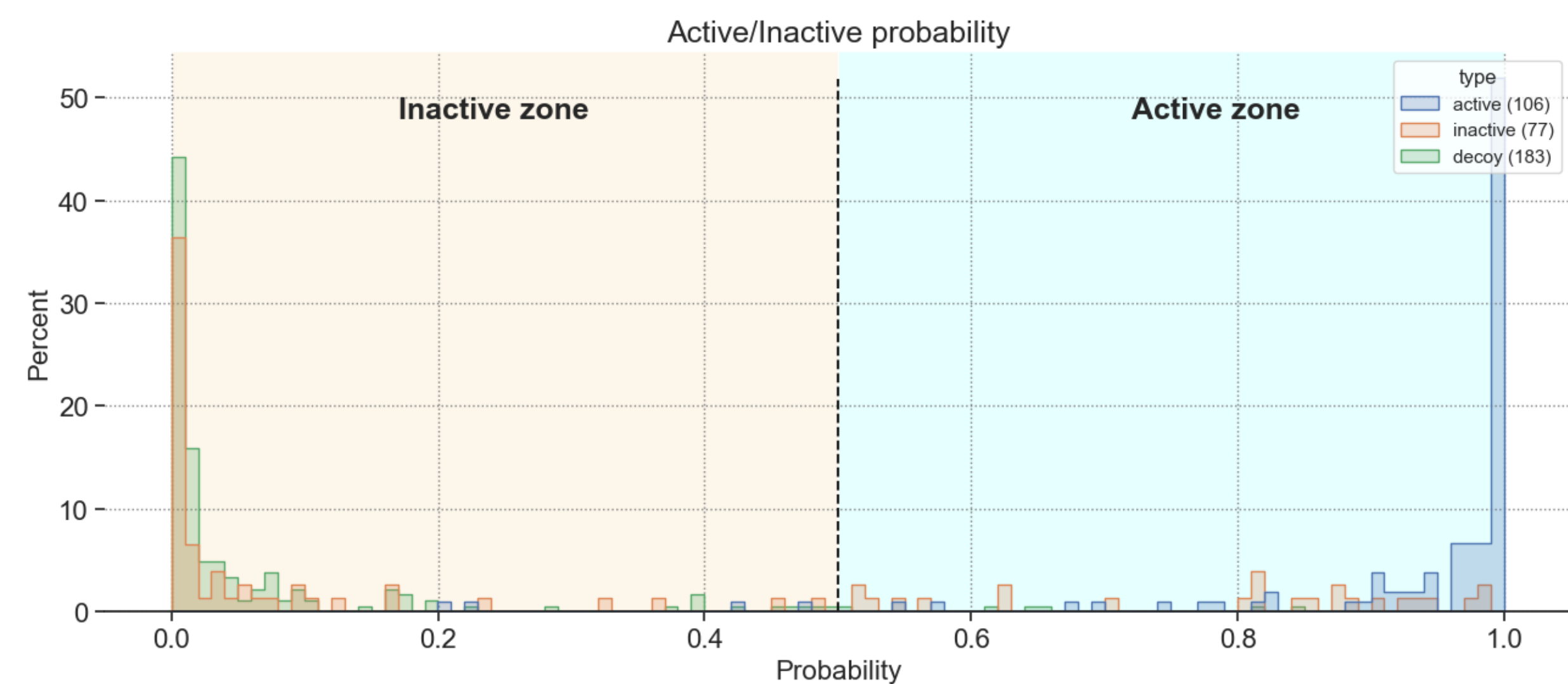
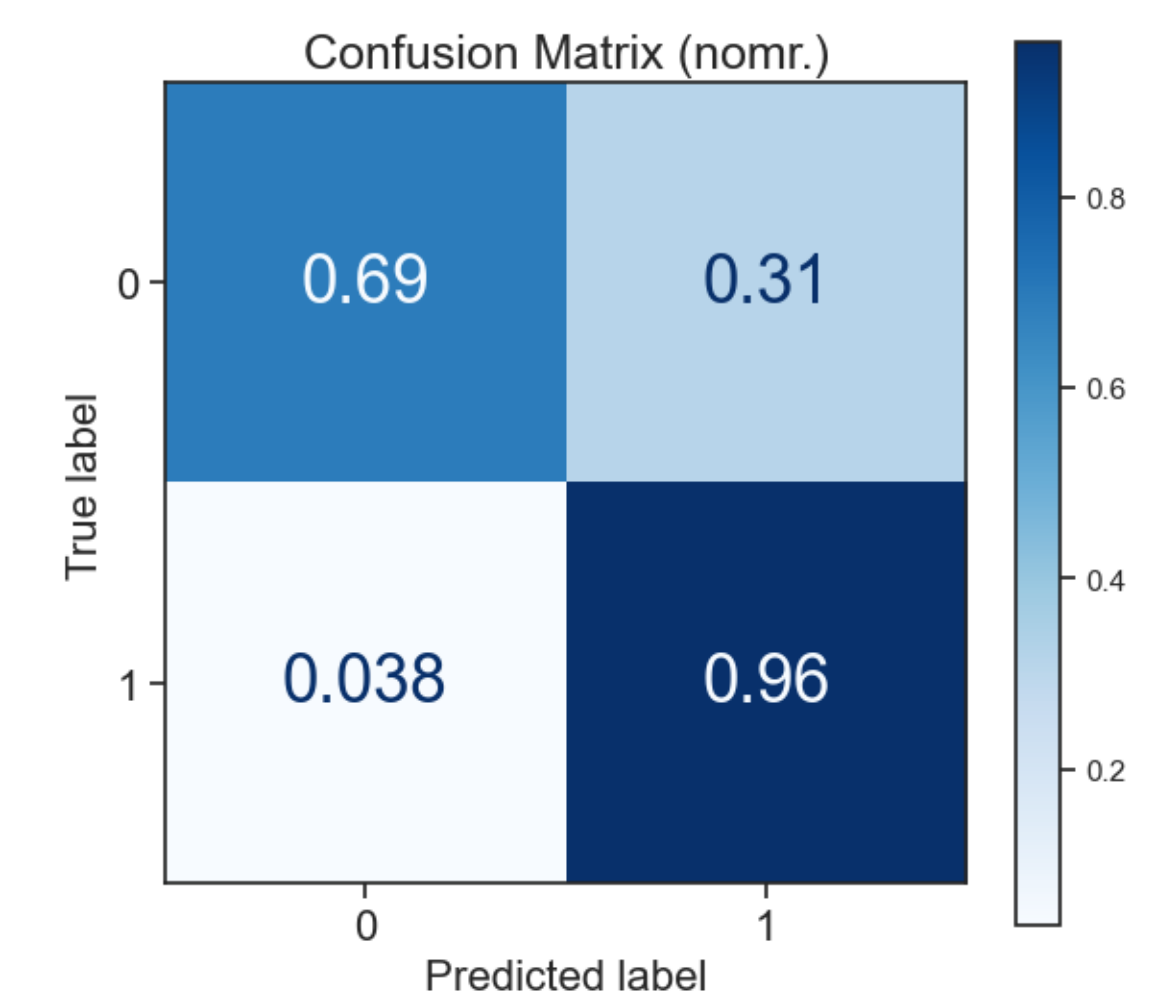
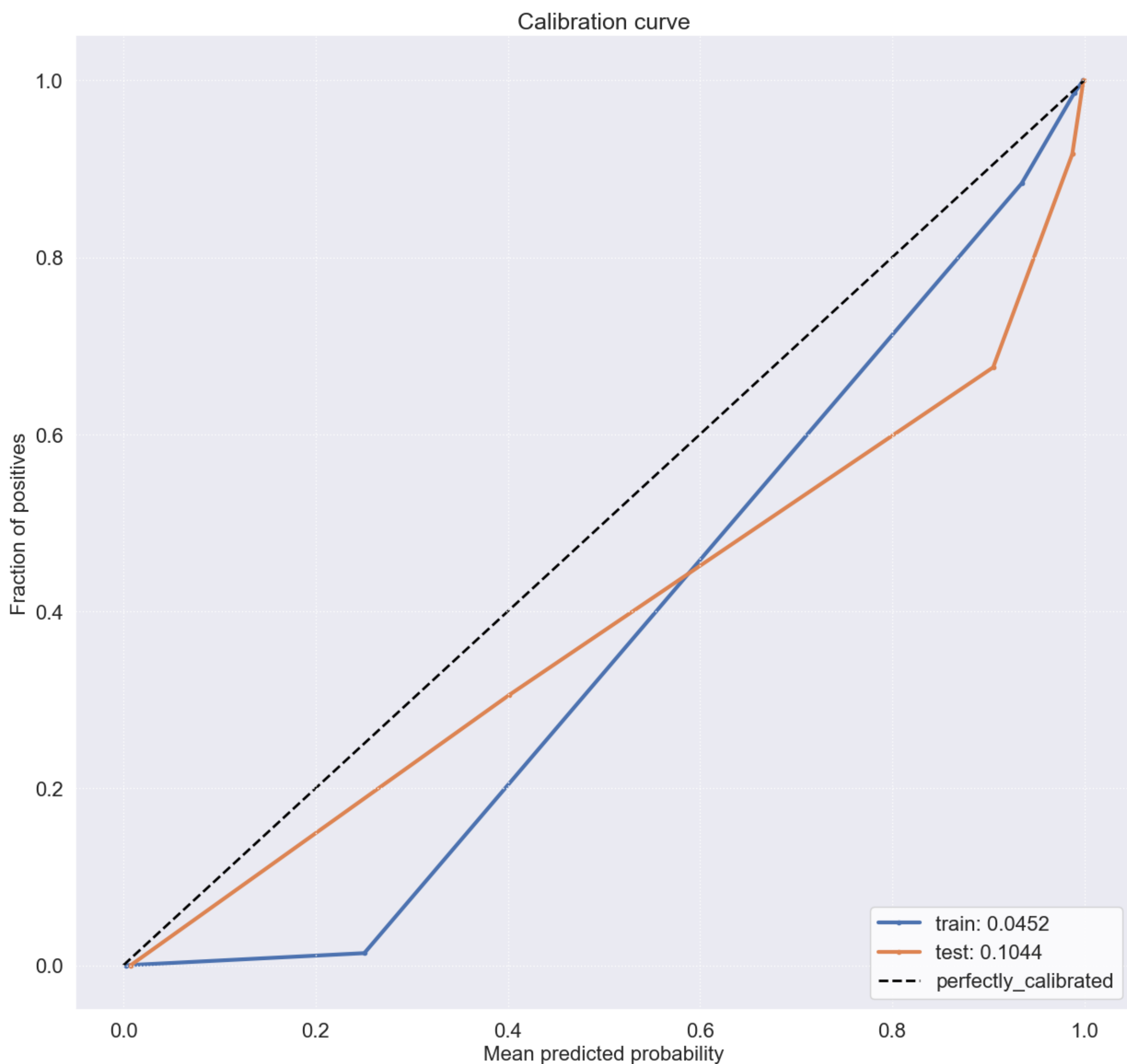
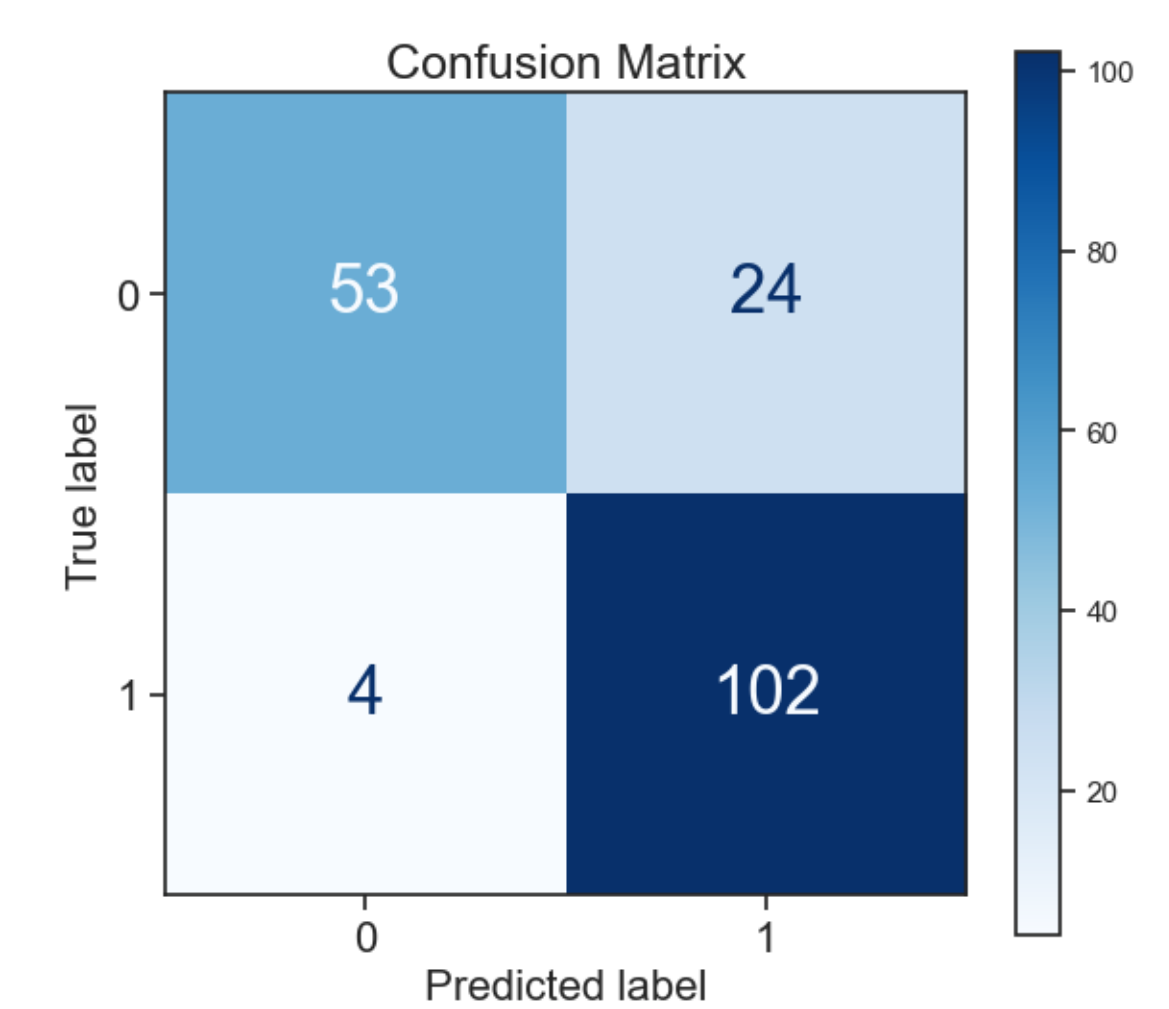


Protein: P11597 - metric: balanced\_accuracy



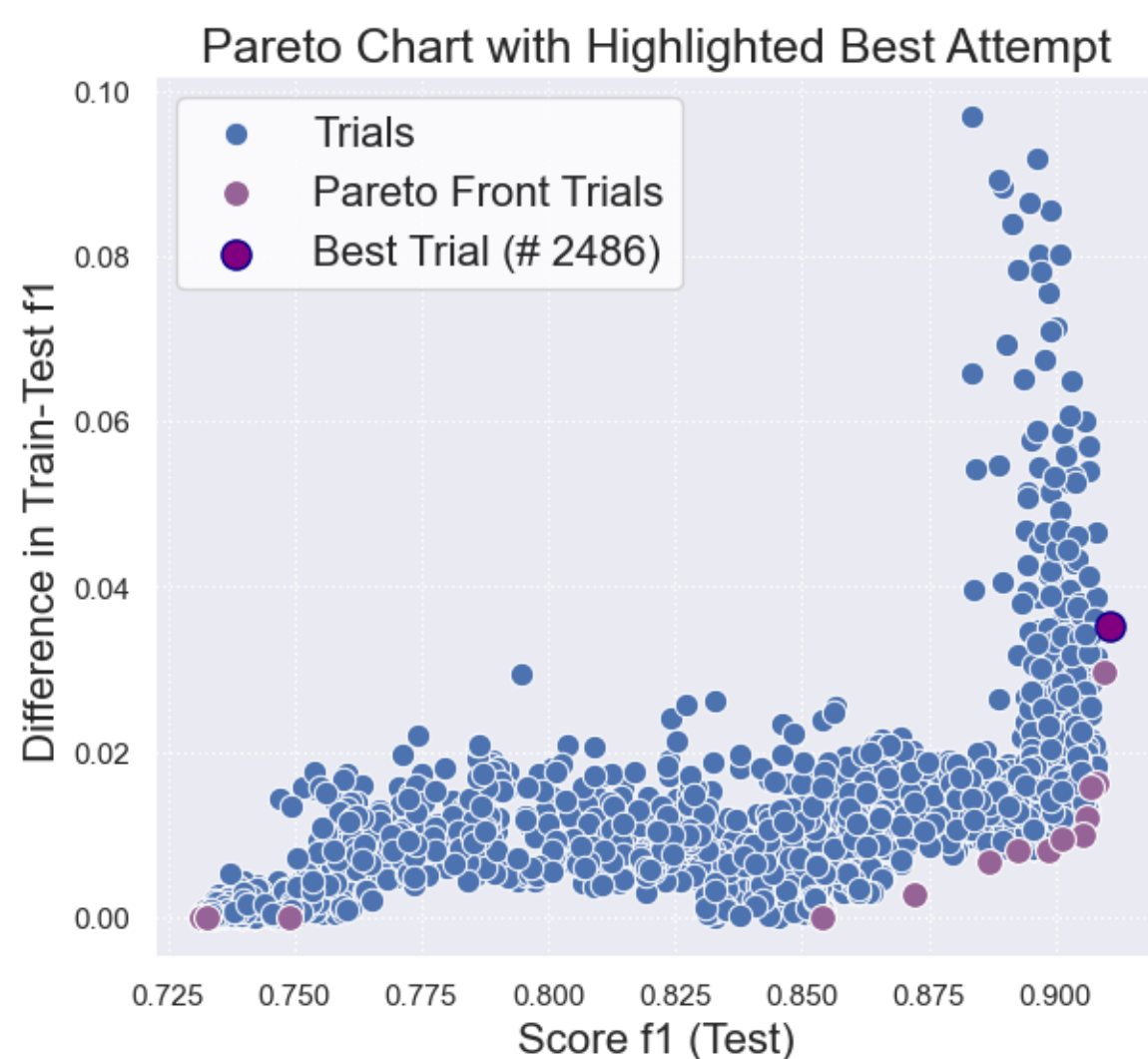
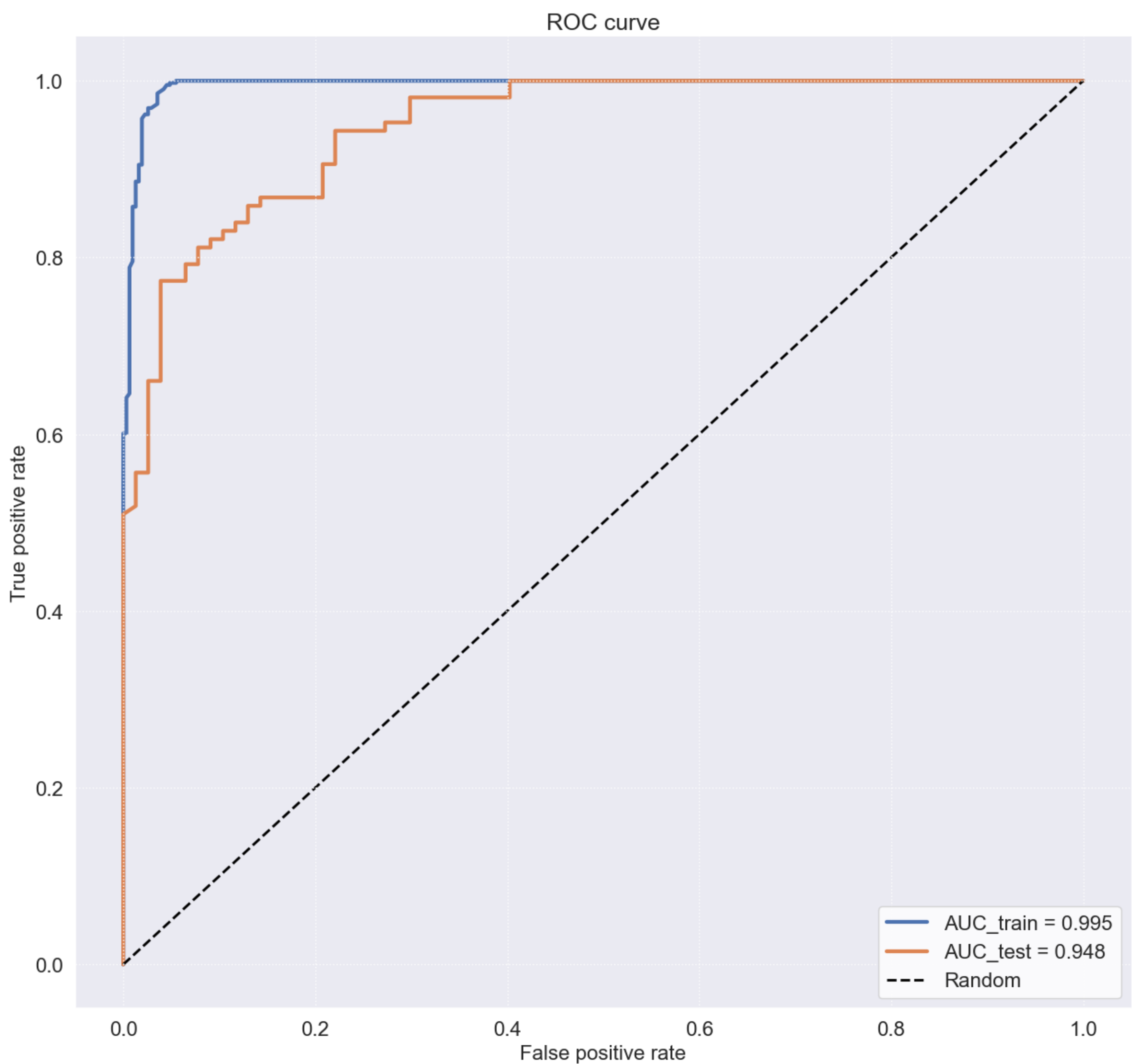
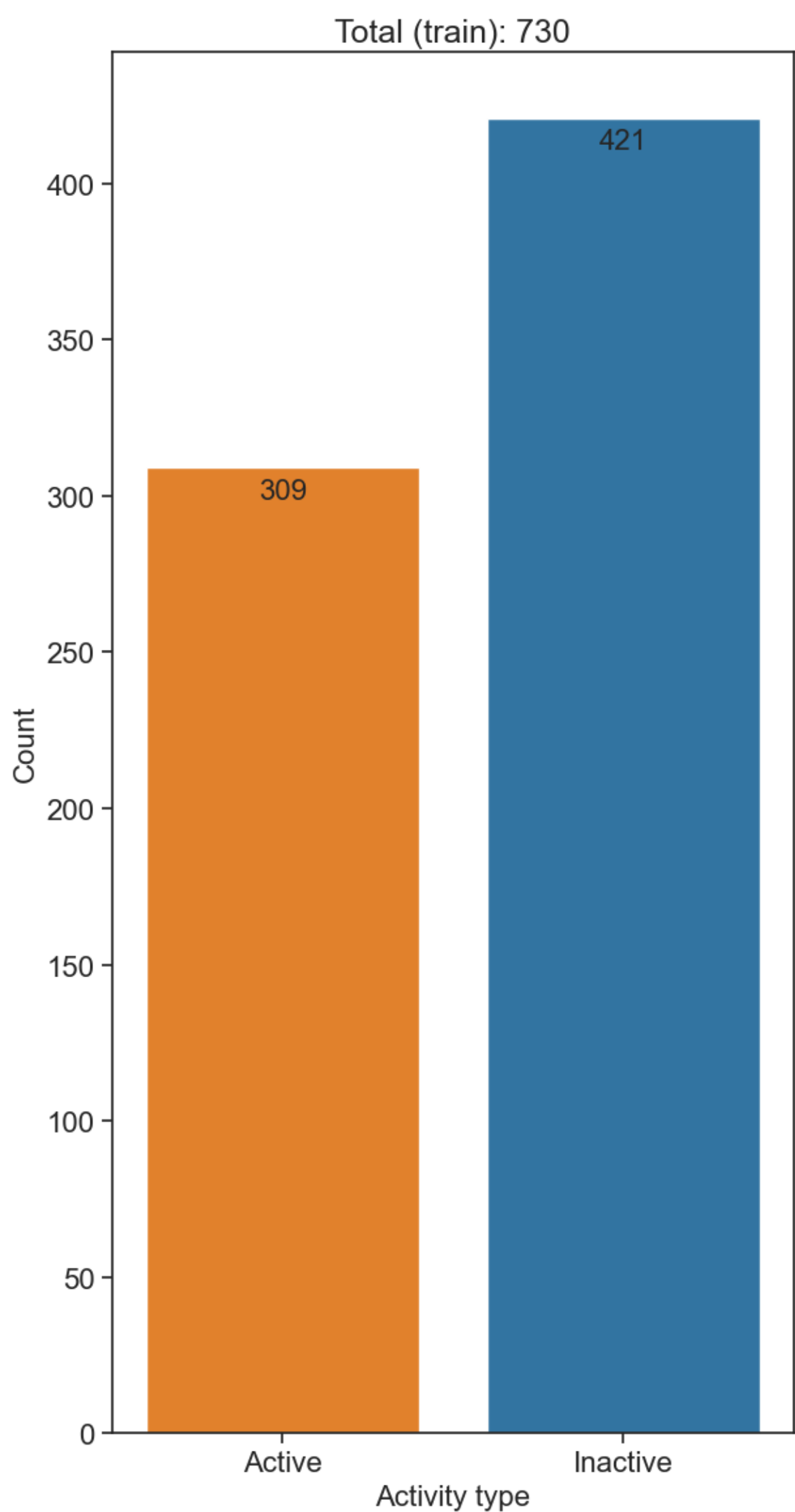
XGBoost Parameters	Value
alpha	2.6251
colsample_bytree	0.9862
gamma	0.9359
lambda	4.0148
learning_rate	0.0691
max_depth	7.0
min_child_weight	4.0
n_estimators	826.0
reg_alpha	0.6913
reg_lambda	0.1062
scale_pos_weight	5.5977
subsample	0.6914



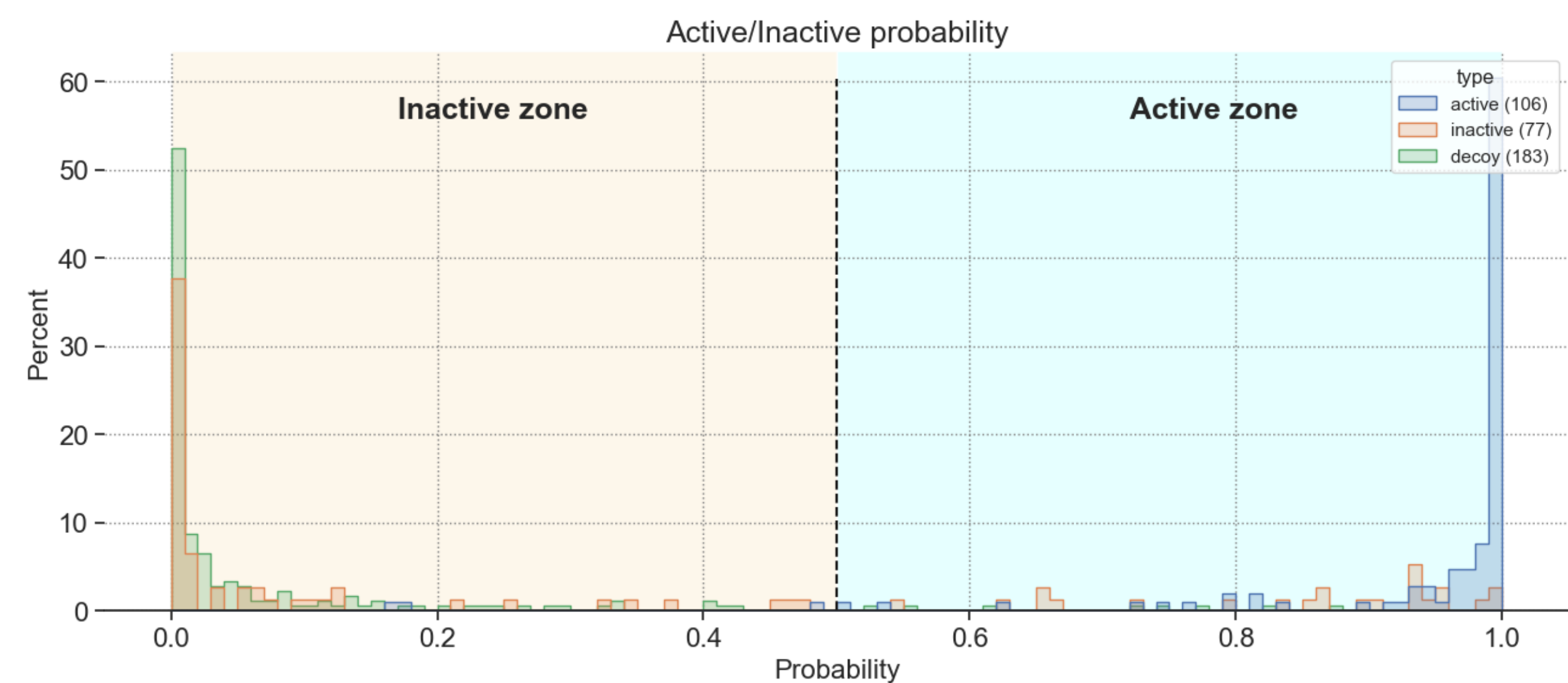
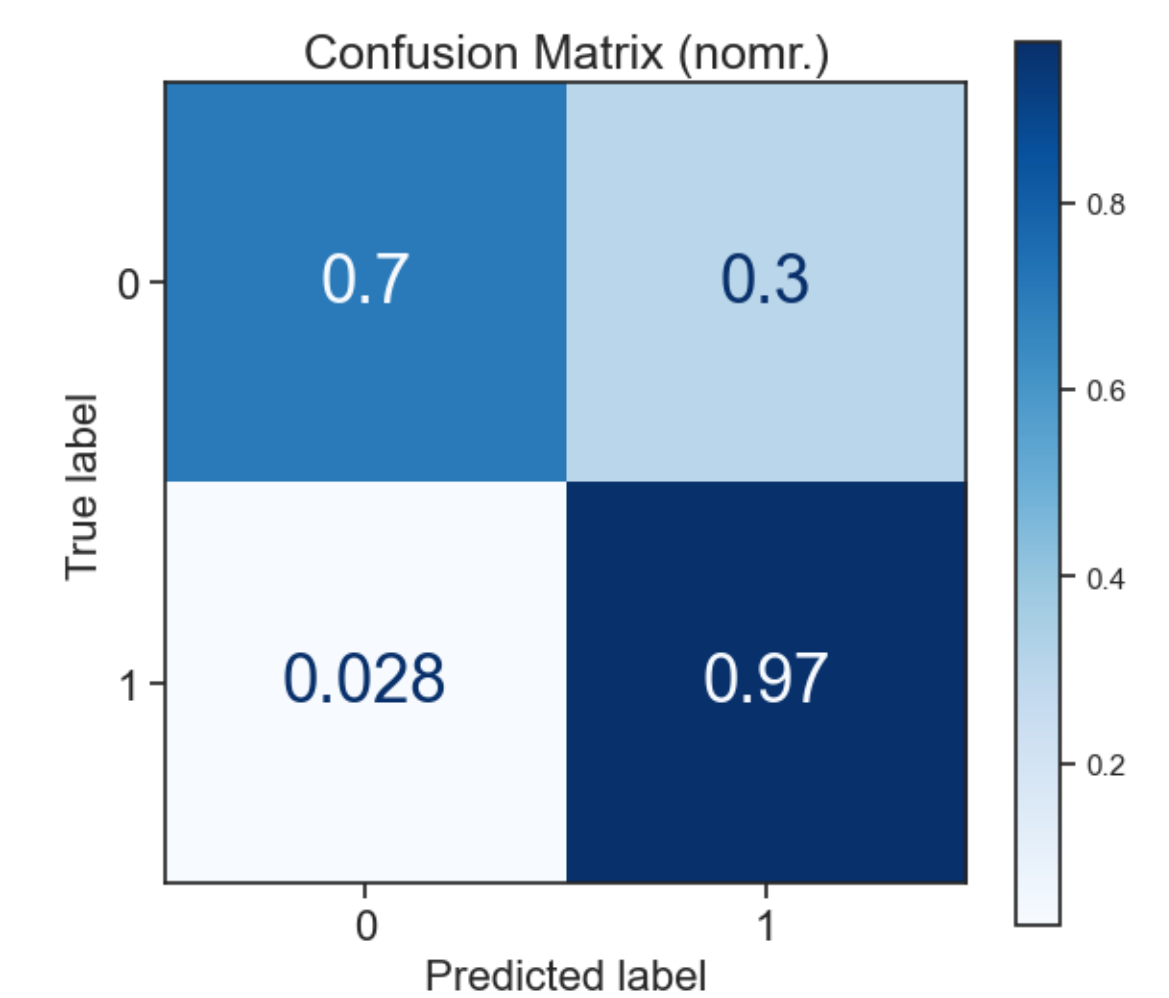
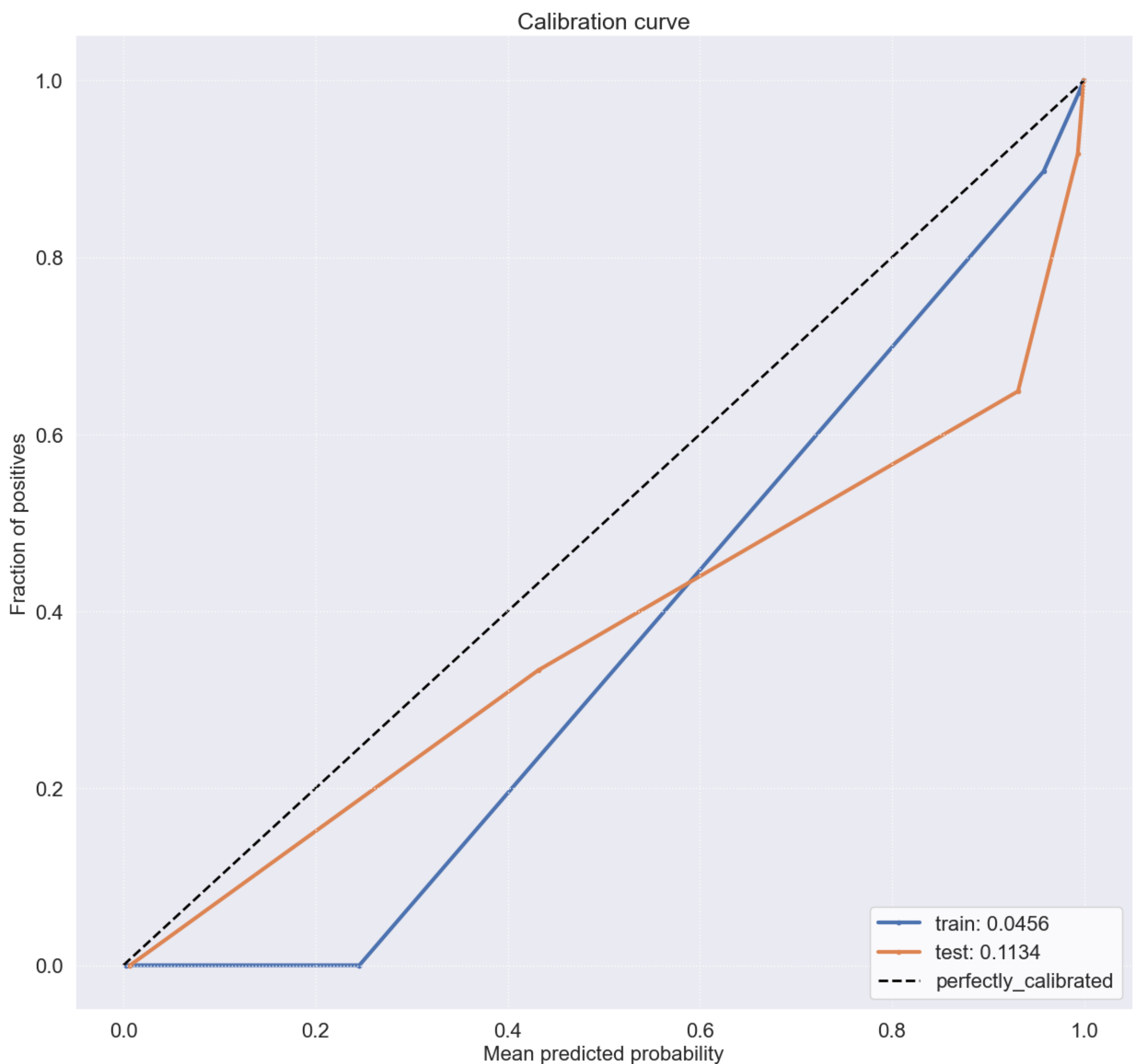
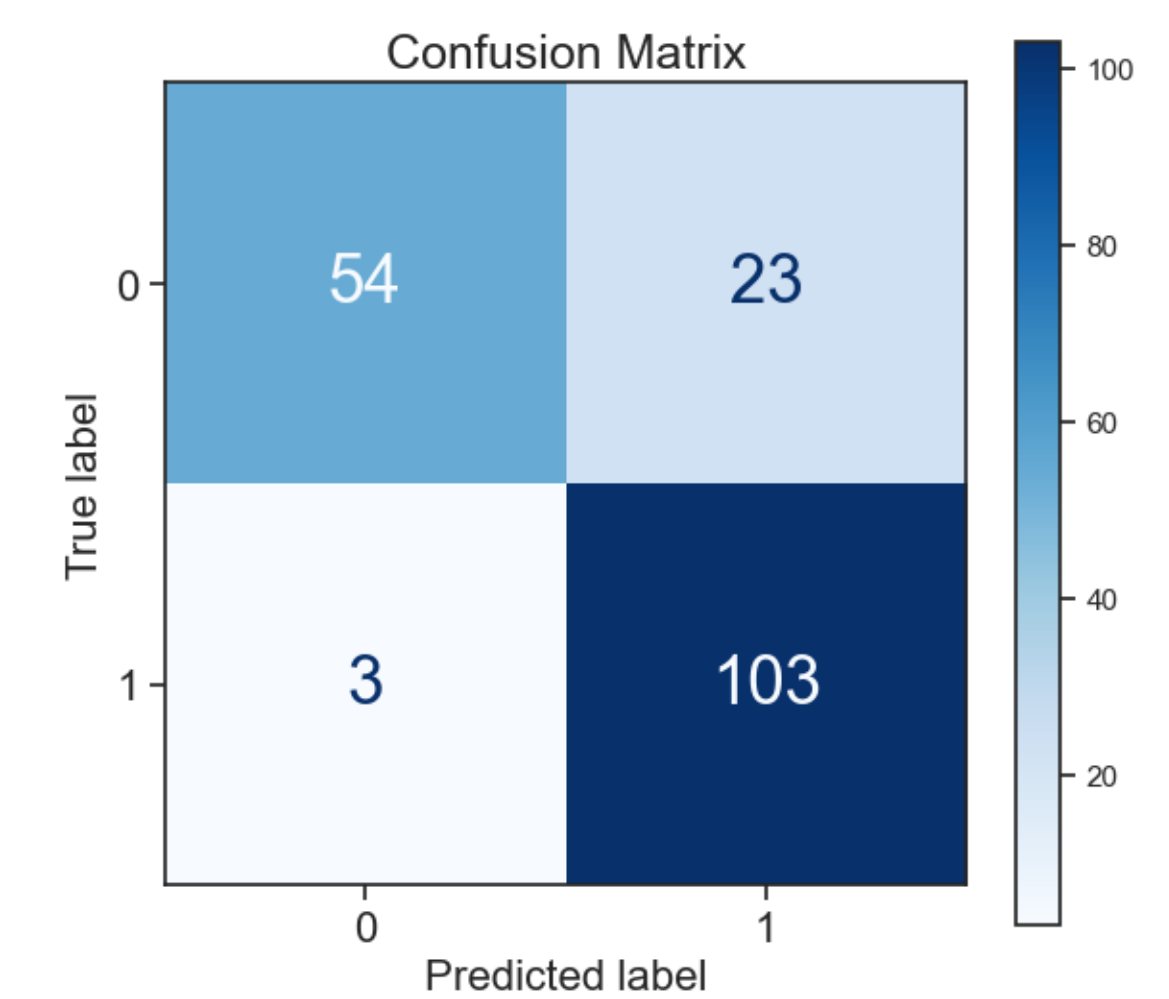
Metric	Train	Test
AUC	0.9946	0.9512
accuracy	0.937	0.847
balanced accuracy	0.9256	0.8253
recall_(sens)	1.0	0.9623
specificity	0.8511	0.6883
precision	0.9015	0.8095
f1_score	0.9361	0.8422



Protein: P11597 - metric: f1



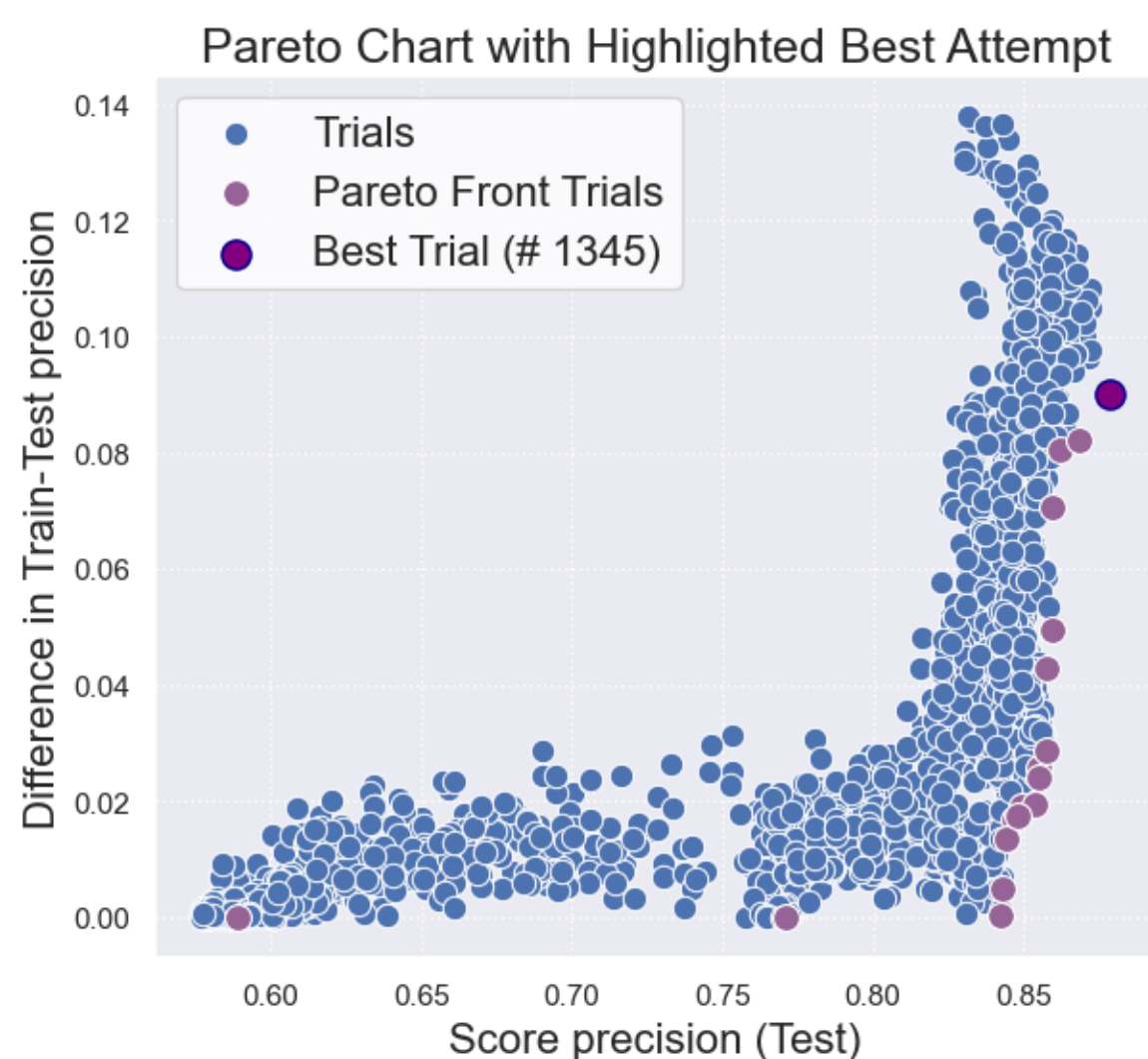
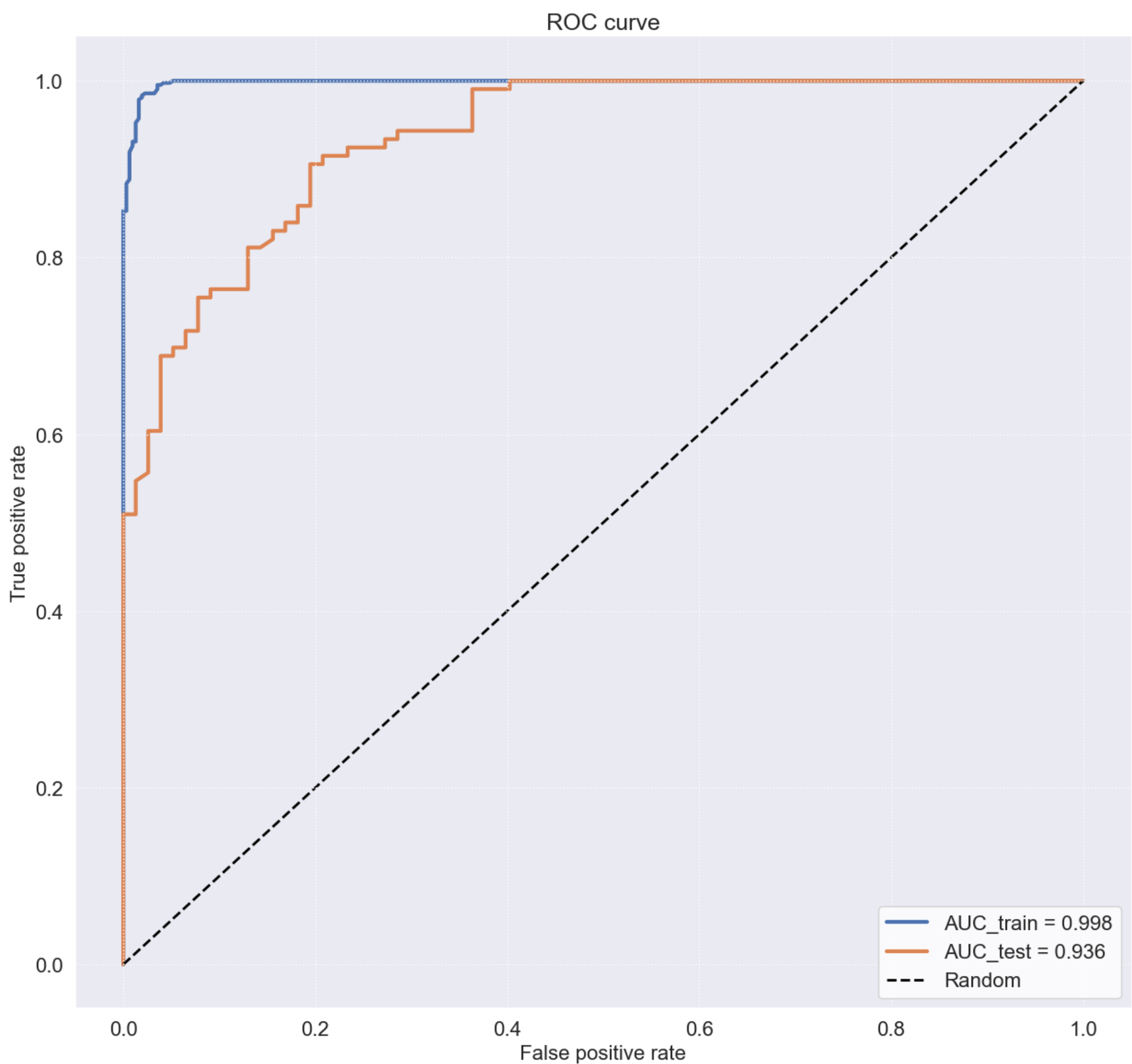
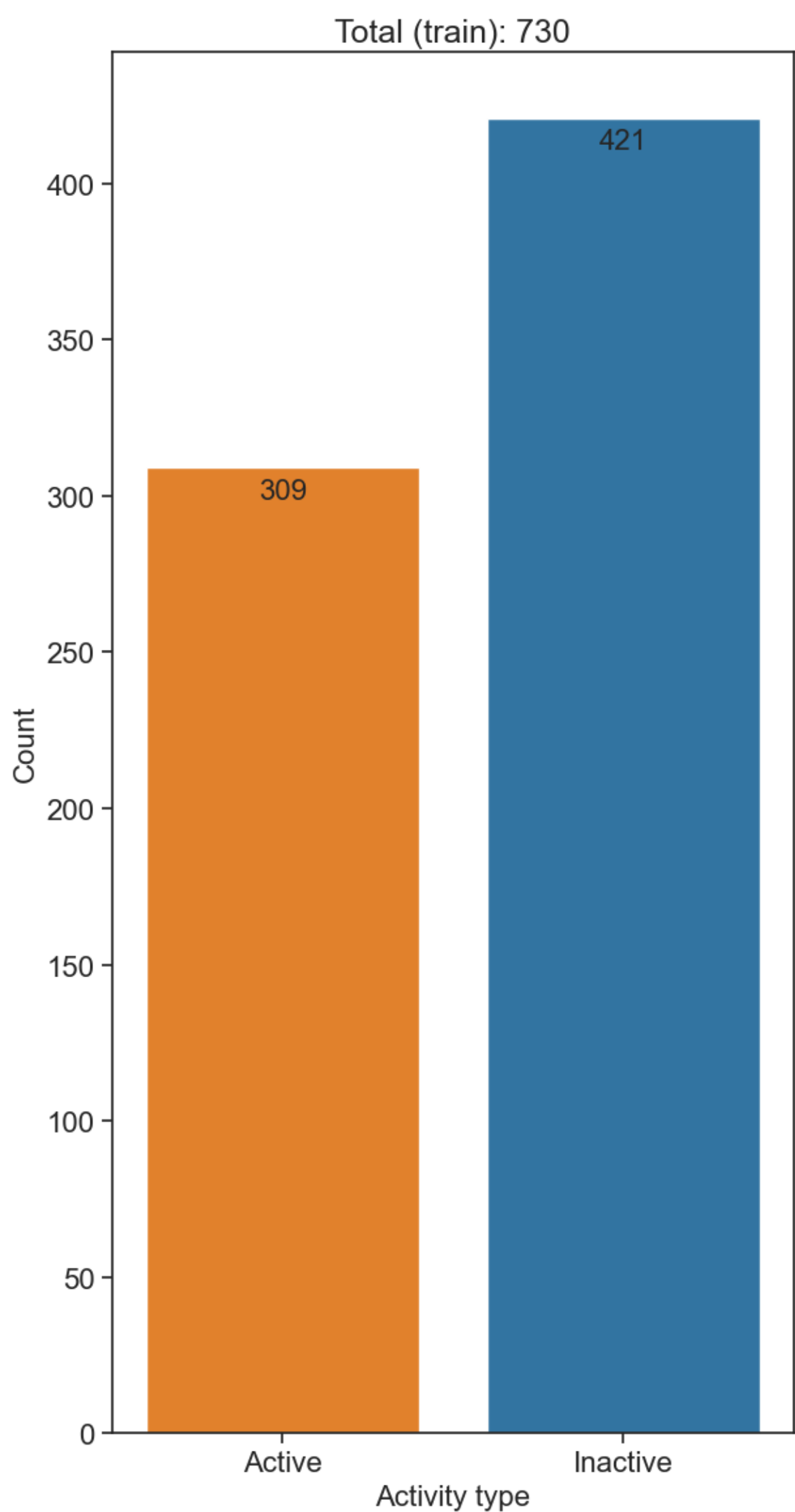
XGBoost Parameters	Value
alpha	3.9437
colsample_bytree	0.7166
gamma	0.8392
lambda	2.3878
learning_rate	0.0531
max_depth	8.0
min_child_weight	4.0
n_estimators	948.0
reg_alpha	0.4296
reg_lambda	0.2082
scale_pos_weight	9.4388
subsample	0.6211



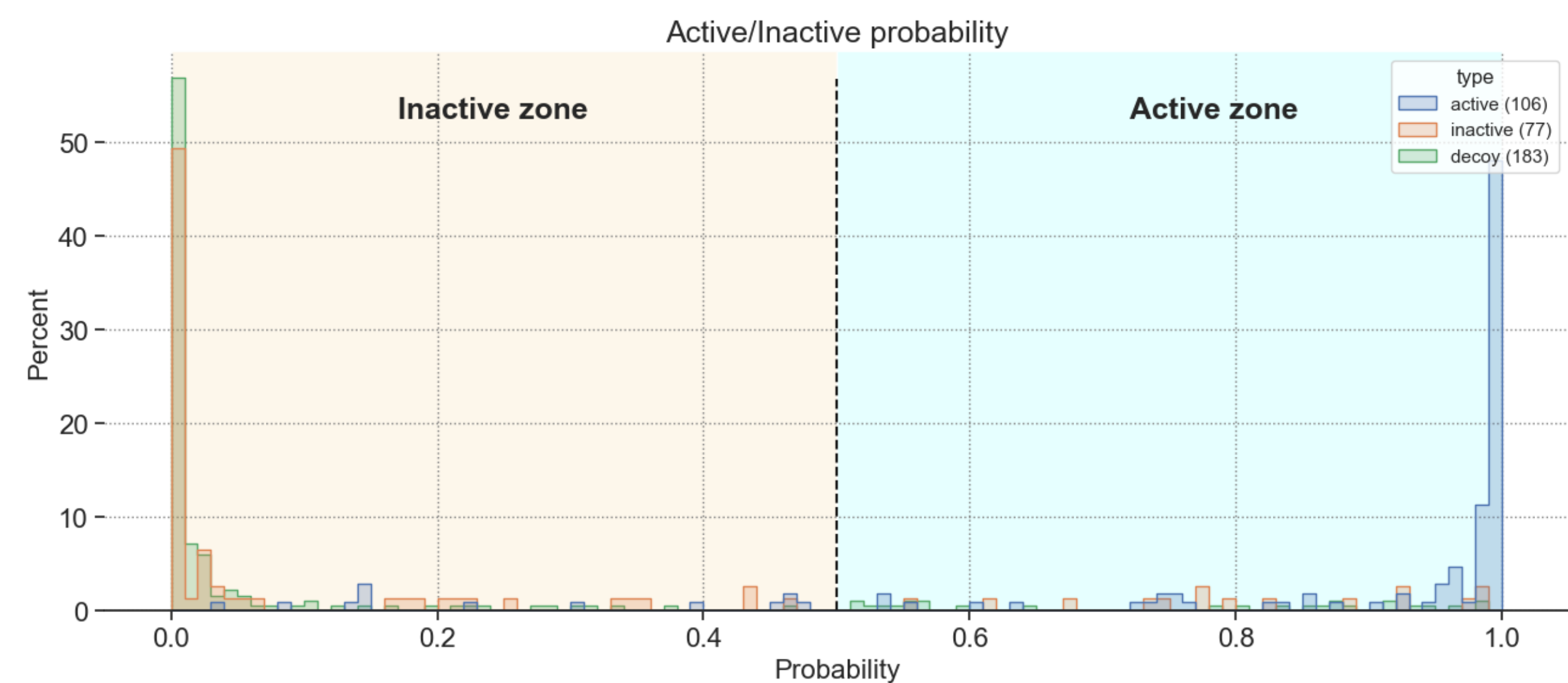
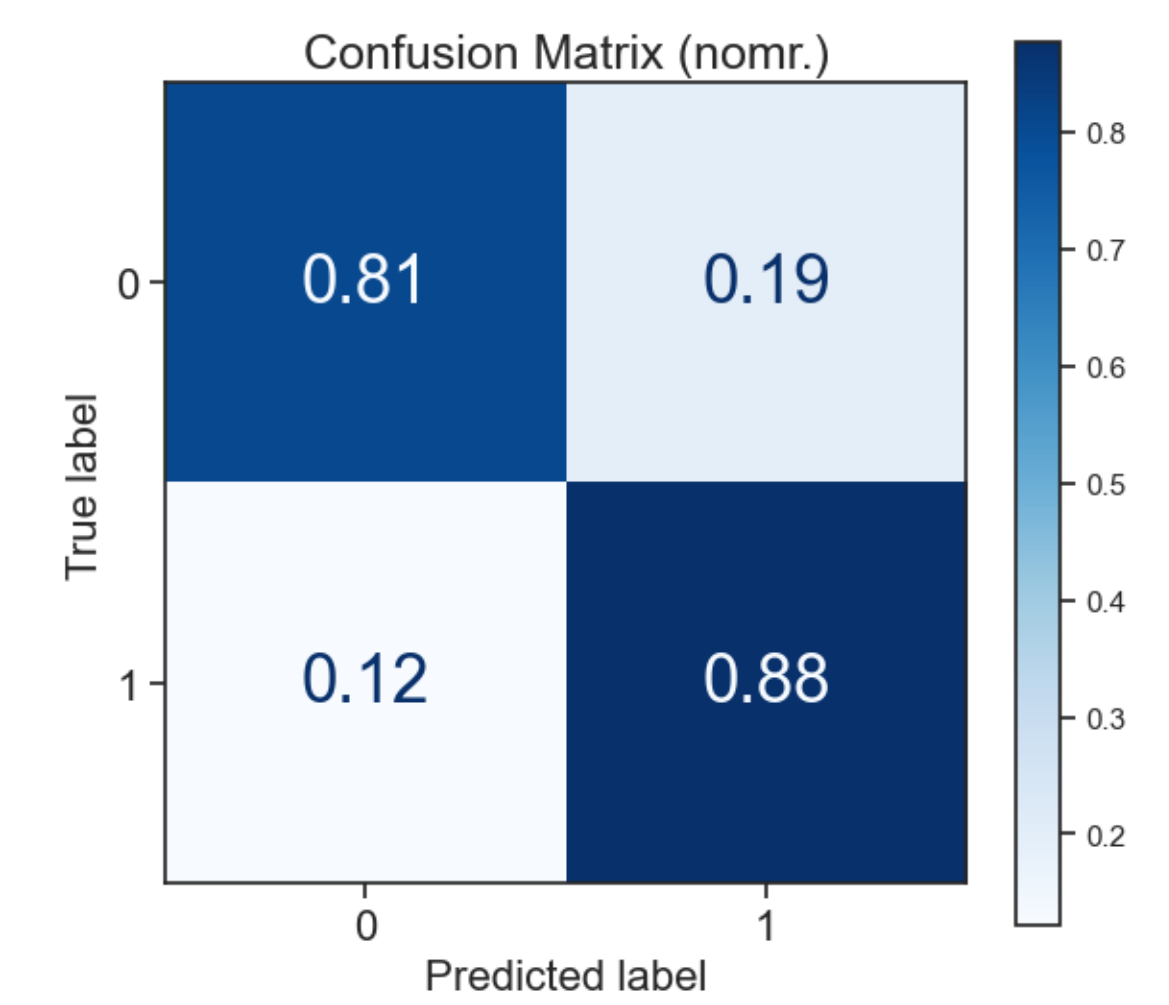
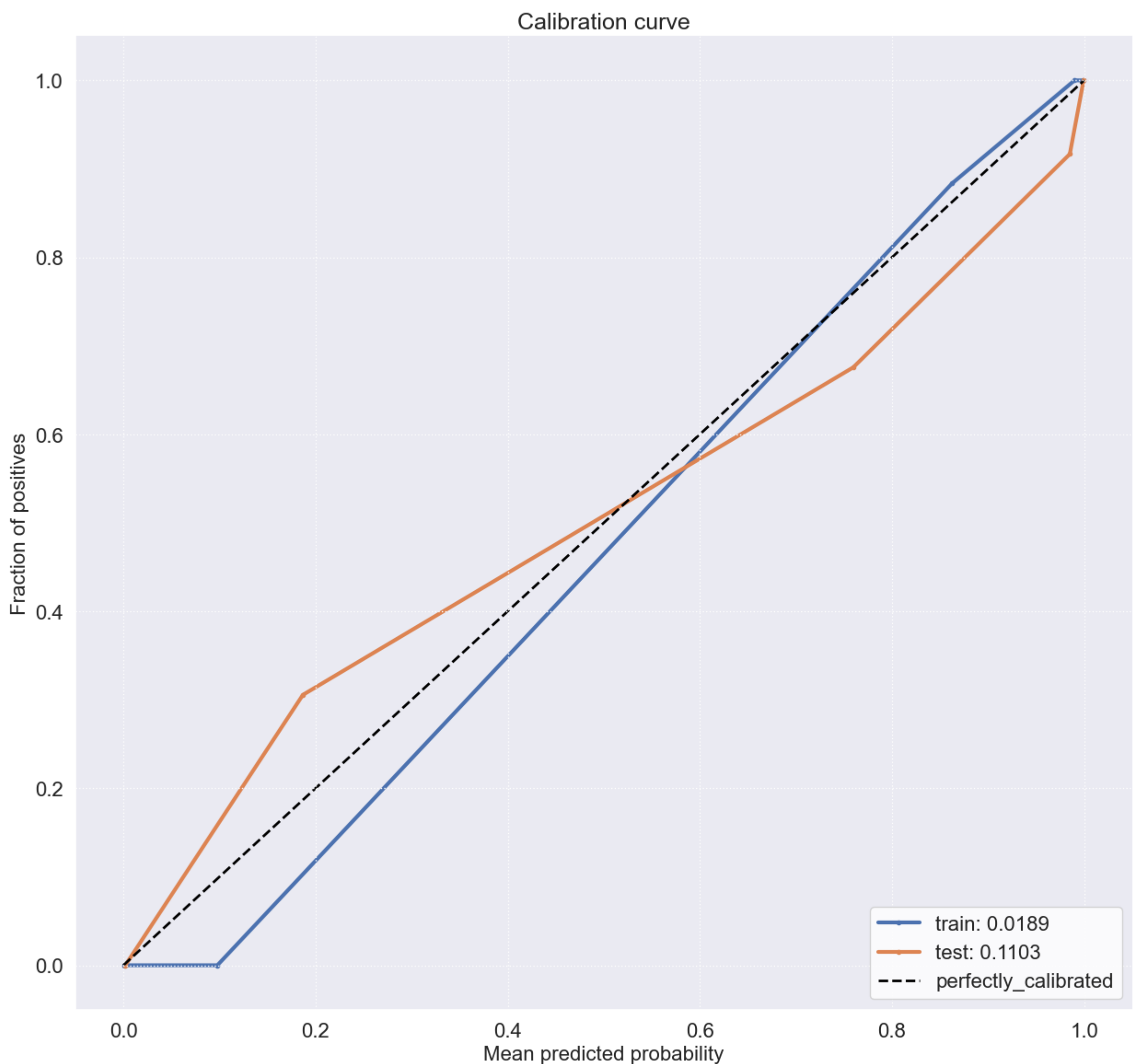
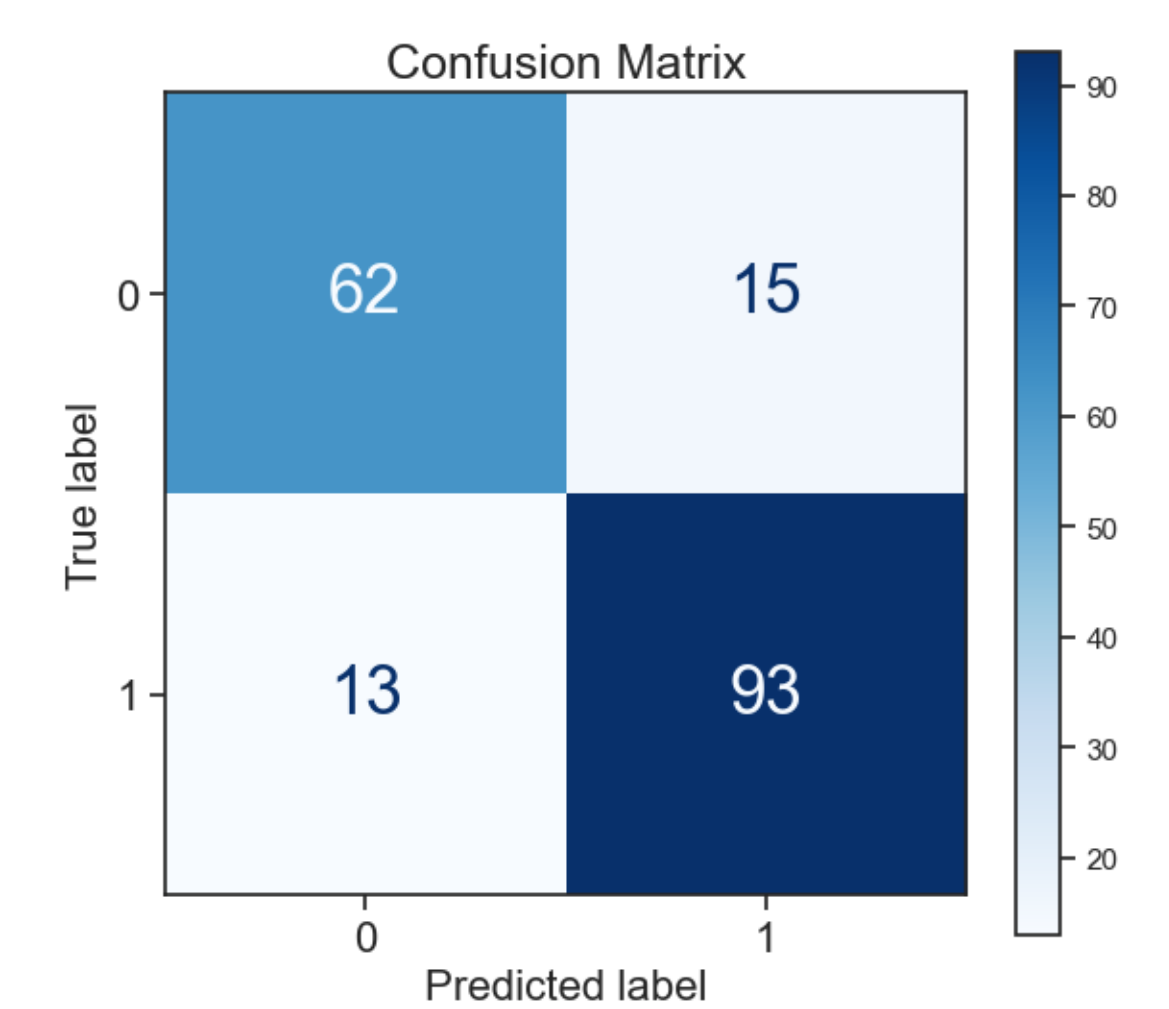
Metric	Train	Test
AUC	0.9951	0.9481
accuracy	0.937	0.8579
balanced accuracy	0.9256	0.8365
recall_(sens)	1.0	0.9717
specificity	0.8511	0.7013
precision	0.9015	0.8175
f1_score	0.9361	0.8534



Protein: P11597 - metric: precision



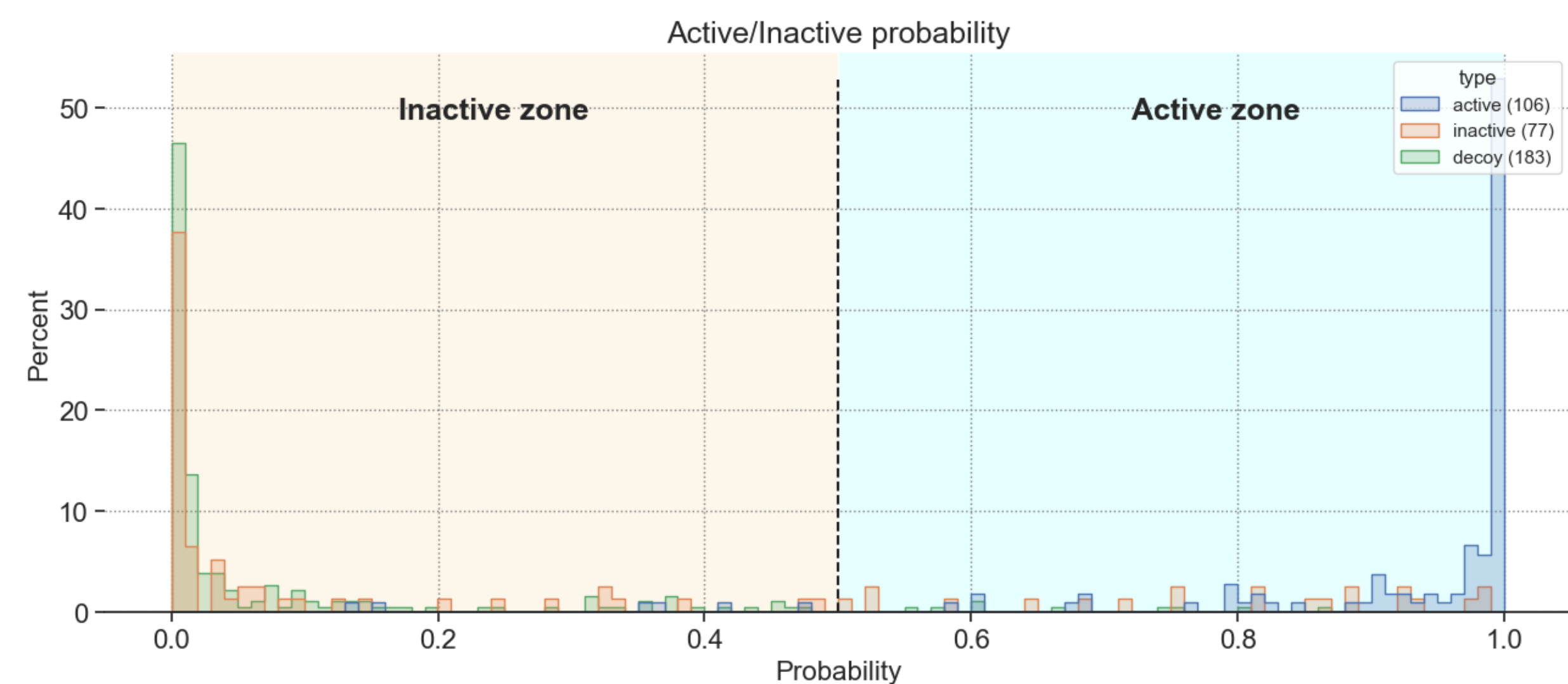
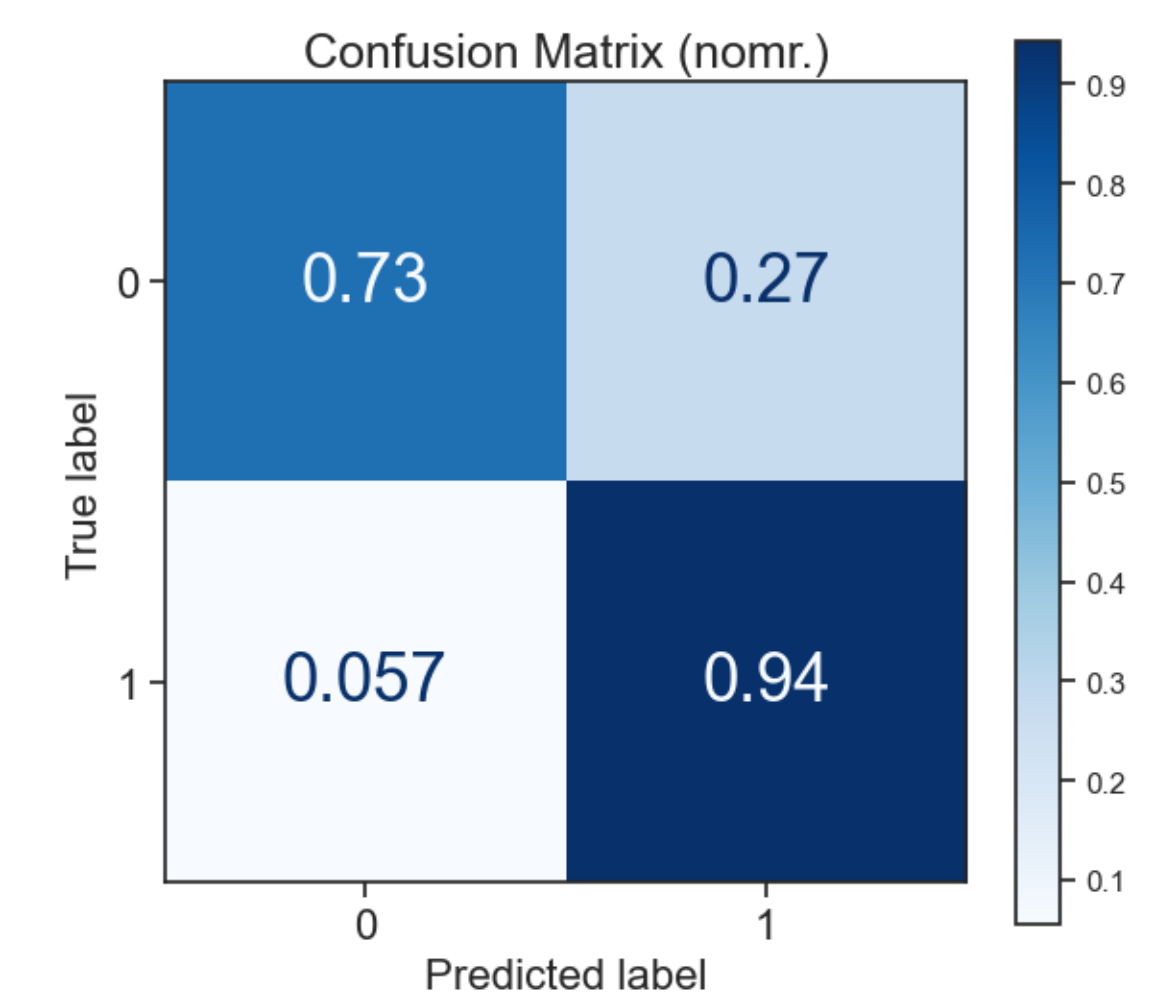
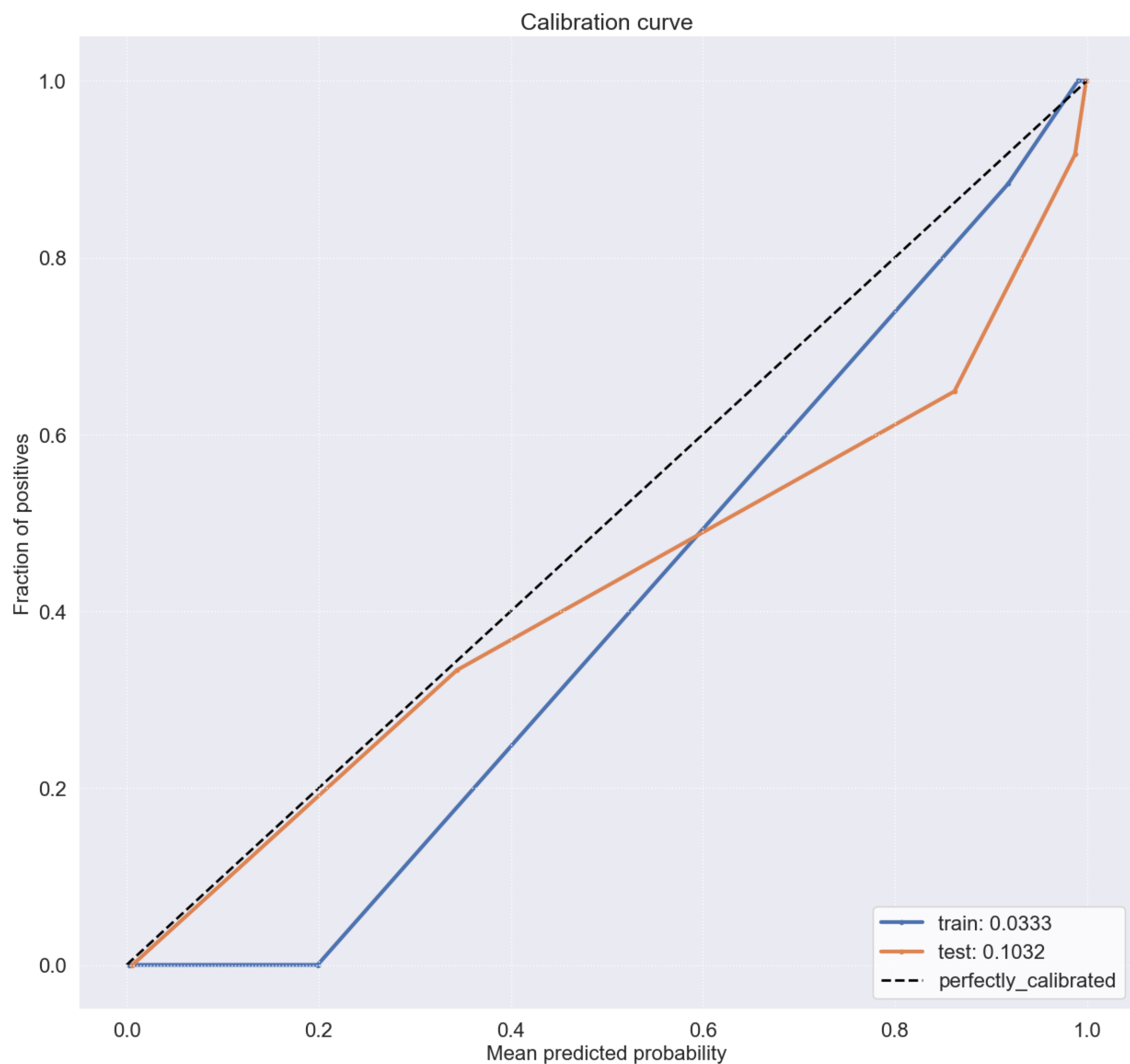
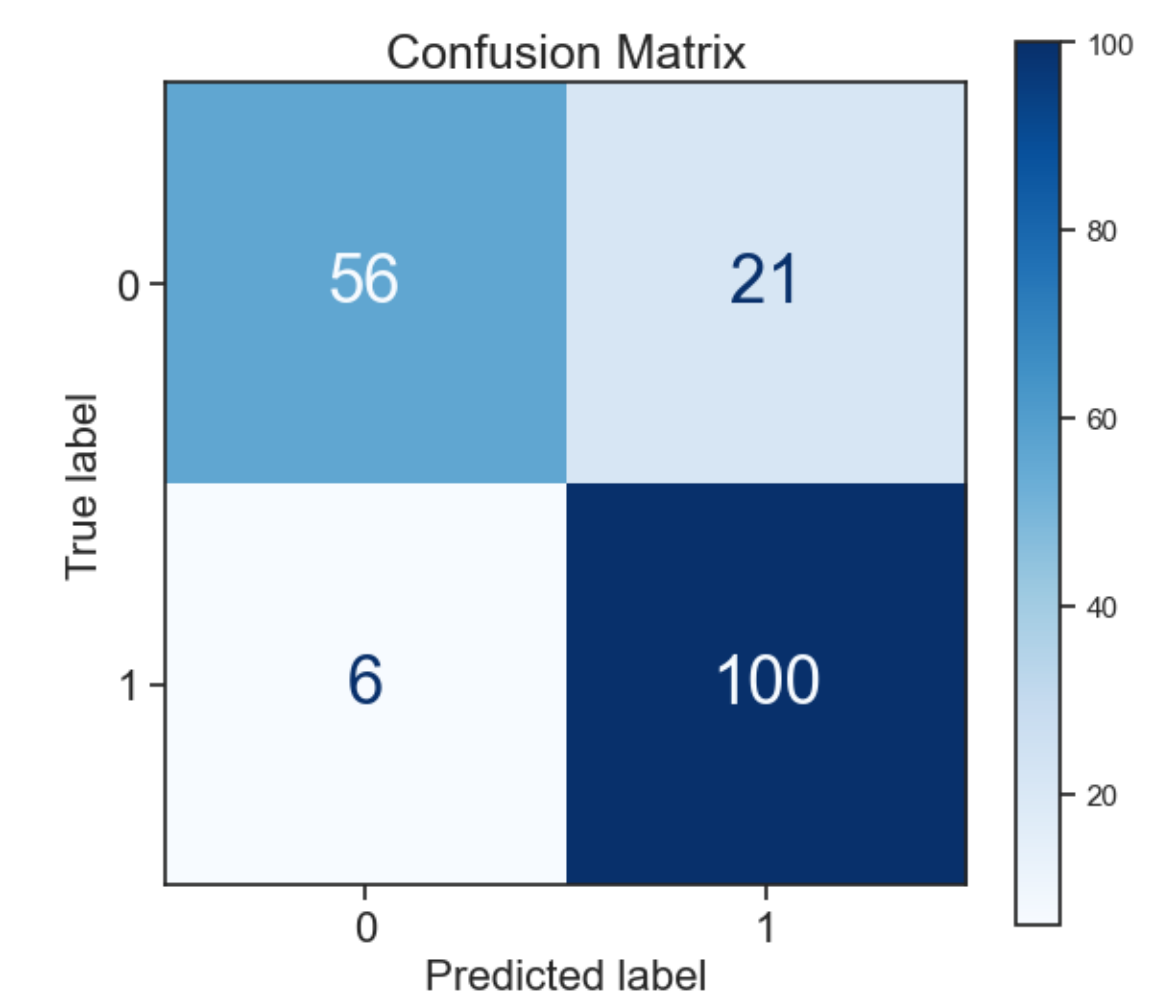
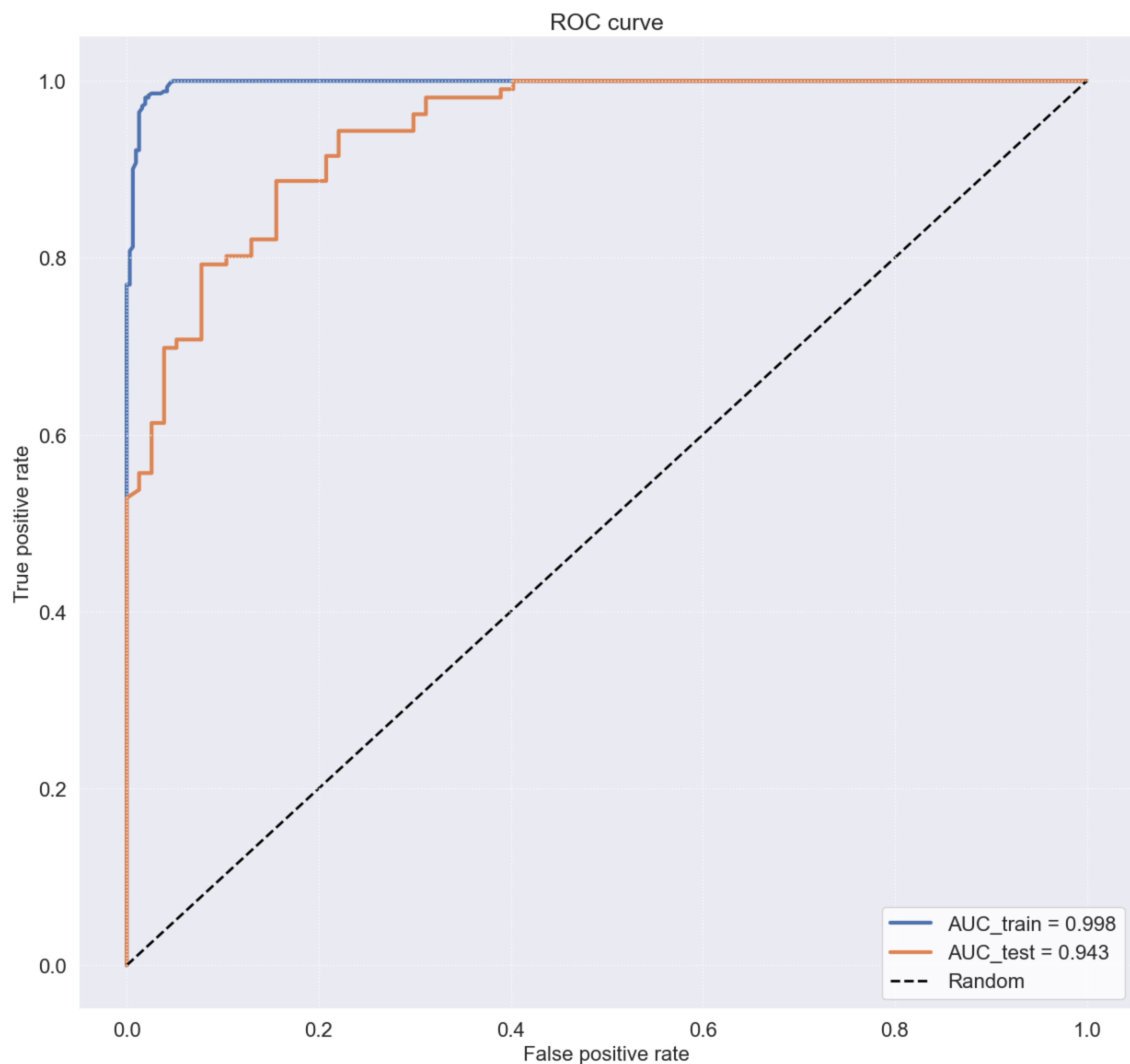
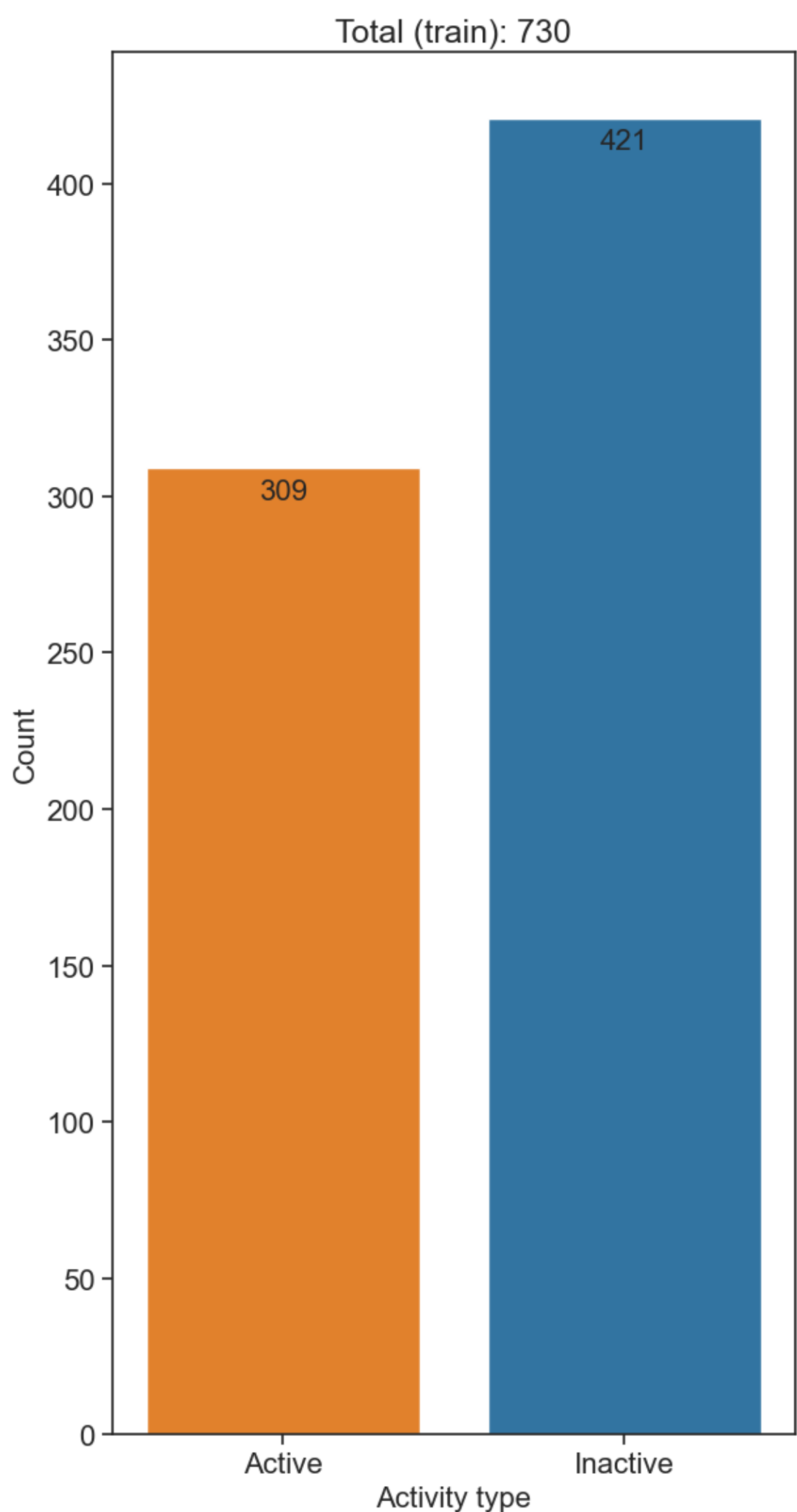
XGBoost Parameters	Value
alpha	4.8456
colsample_bytree	0.8572
gamma	0.9902
lambda	2.0947
learning_rate	0.4494
max_depth	6.0
min_child_weight	1.0
n_estimators	317.0
reg_alpha	0.1825
reg_lambda	0.9164
scale_pos_weight	1.6997
subsample	0.5311



Metric	Train	Test
AUC	0.9982	0.9357
accuracy	0.9781	0.847
balanced accuracy	0.9745	0.8413
recall_(sens)	0.9976	0.8774
specificity	0.9515	0.8052
precision	0.9655	0.8611
f1_score	0.978	0.8467



Protein: P11597 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9975	0.943
accuracy	0.9493	0.8525
balanced accuracy	0.9401	0.8353
recall_(sens)	1.0	0.9434
specificity	0.8803	0.7273
precision	0.9192	0.8264
f1_score	0.9488	0.8494