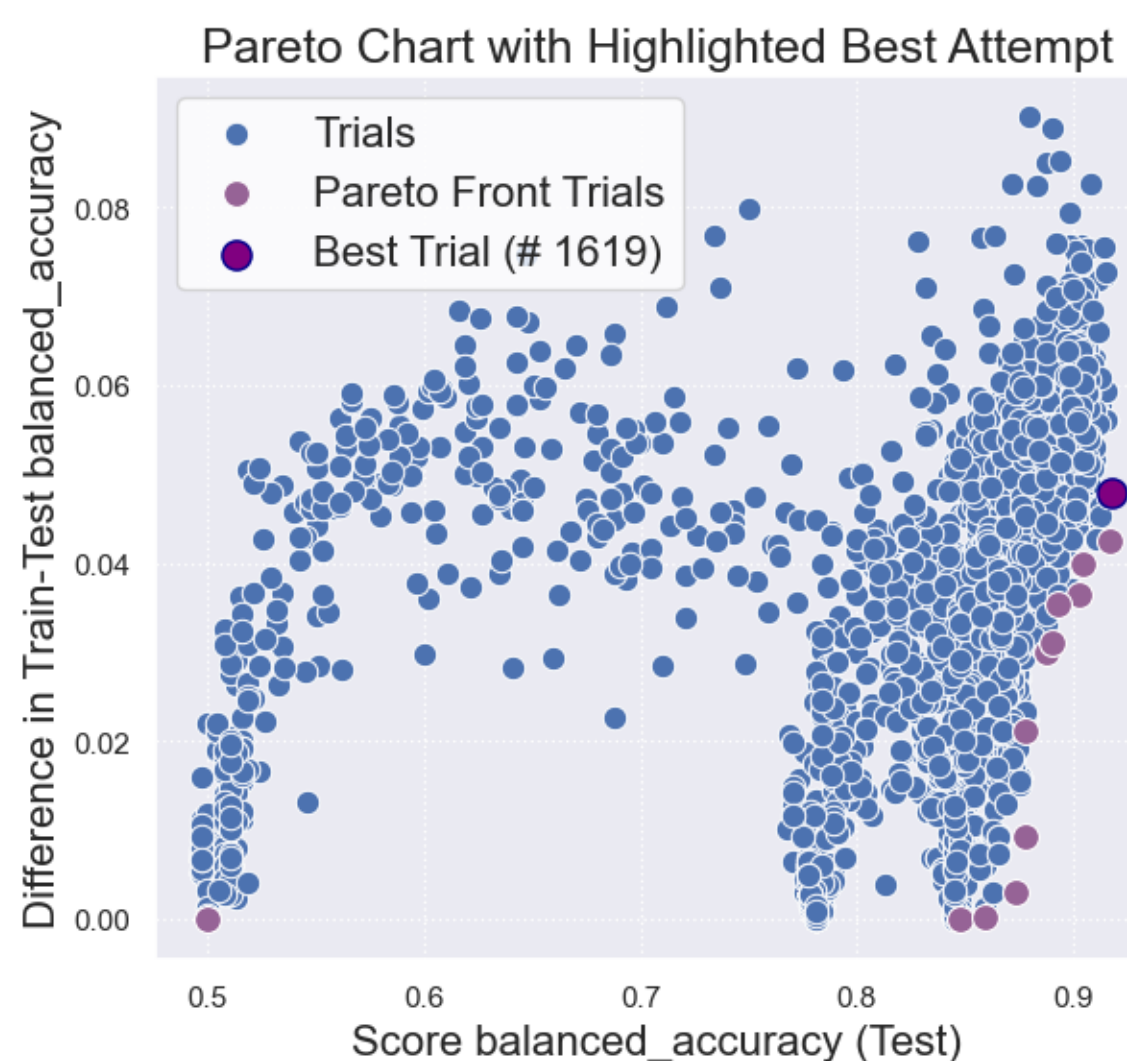
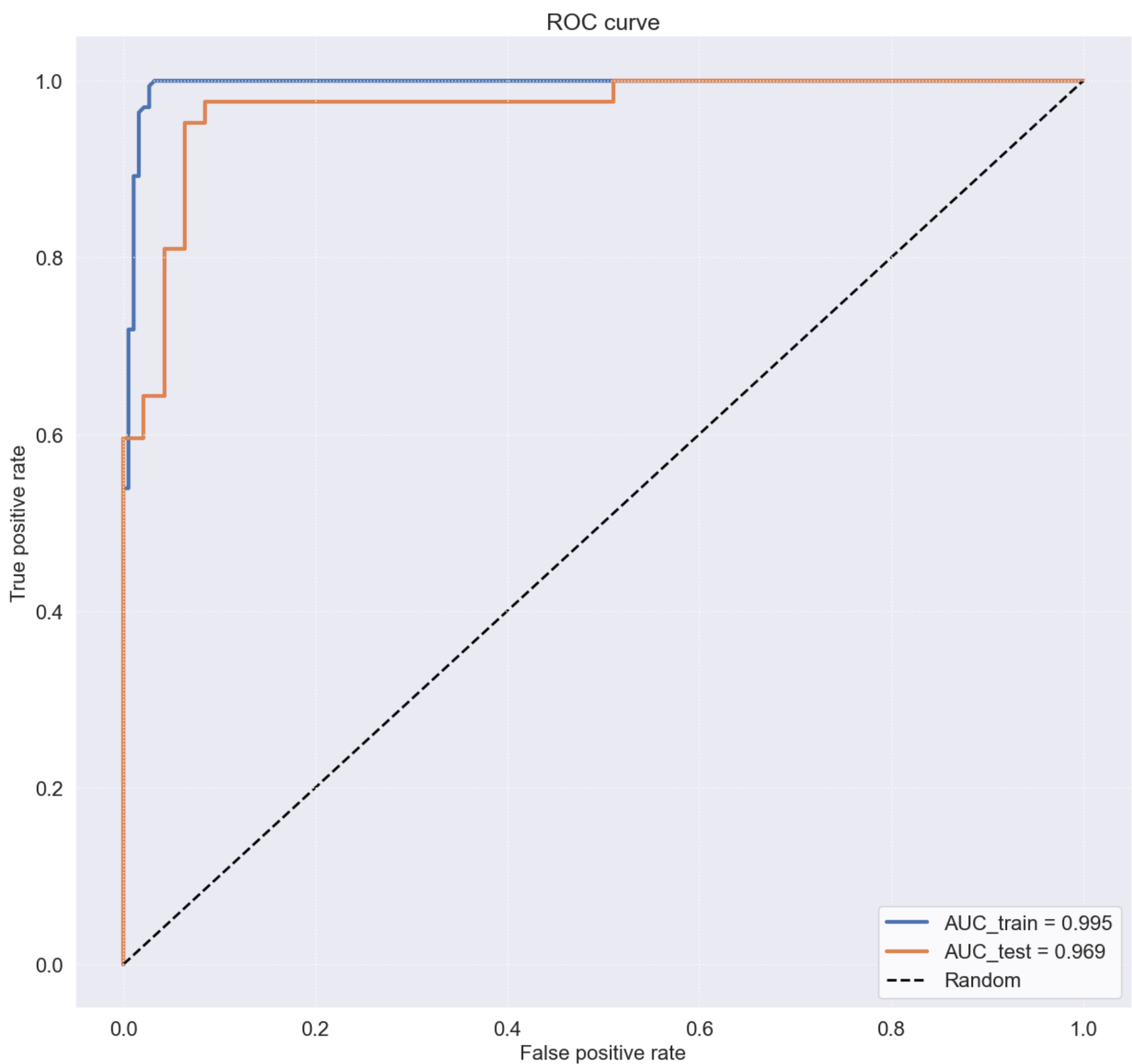
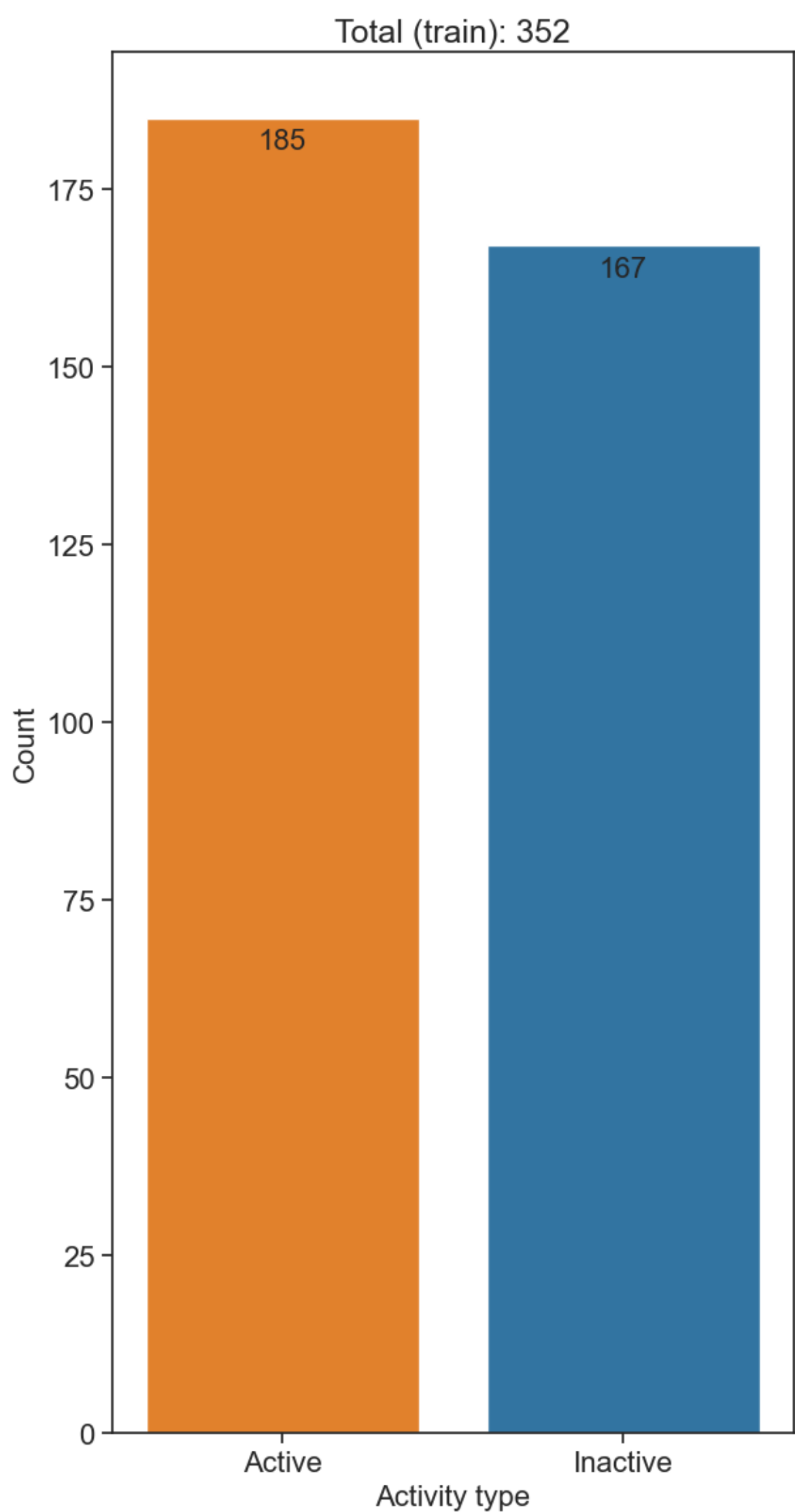
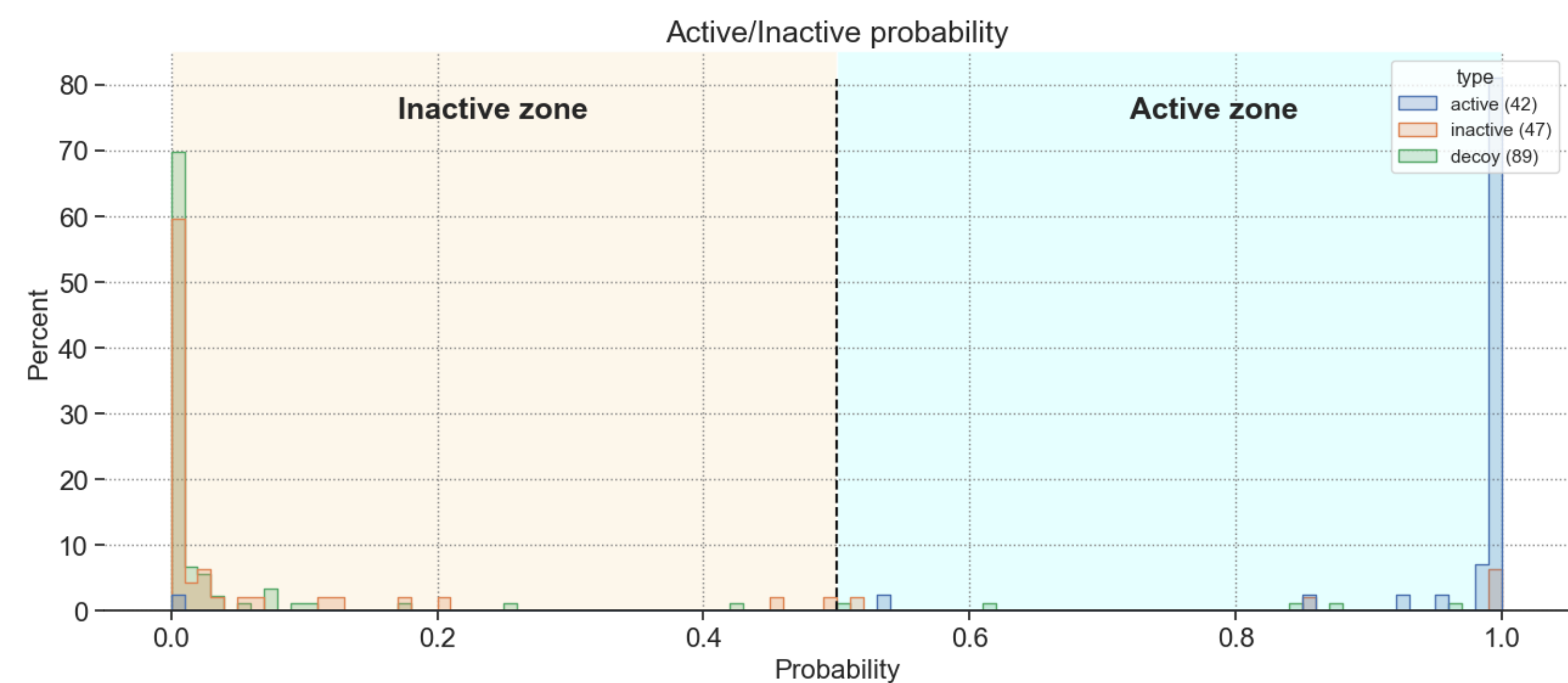
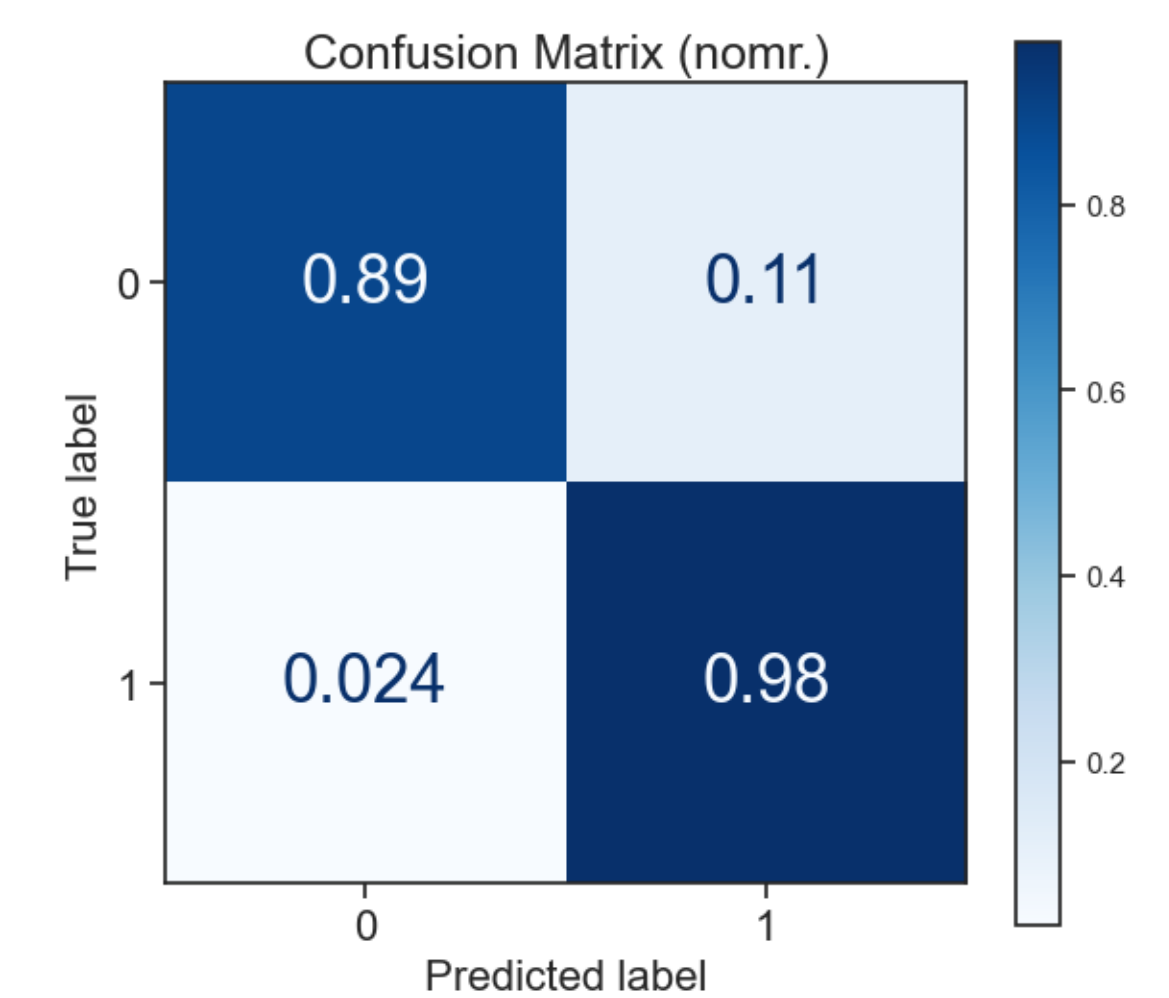
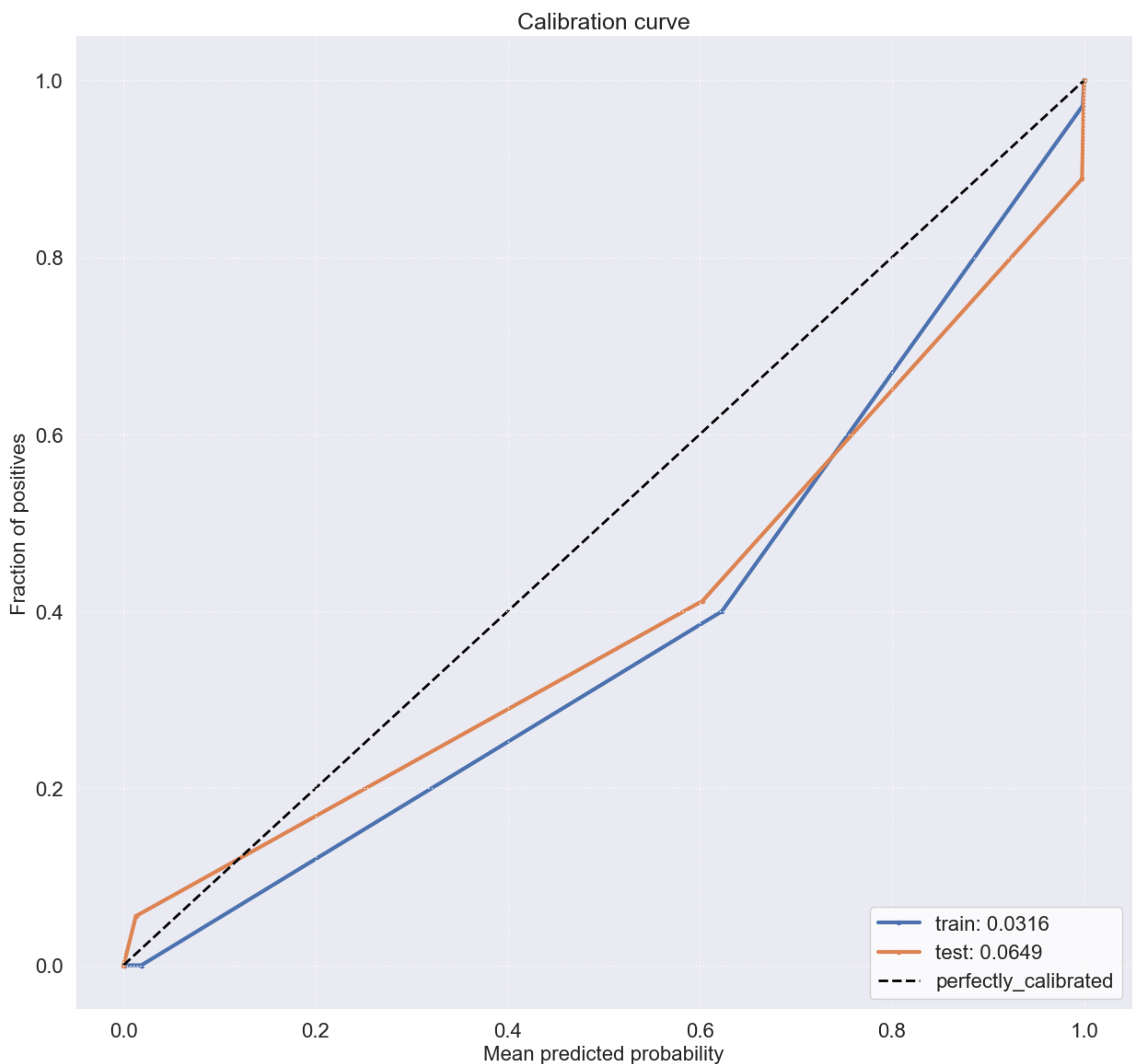
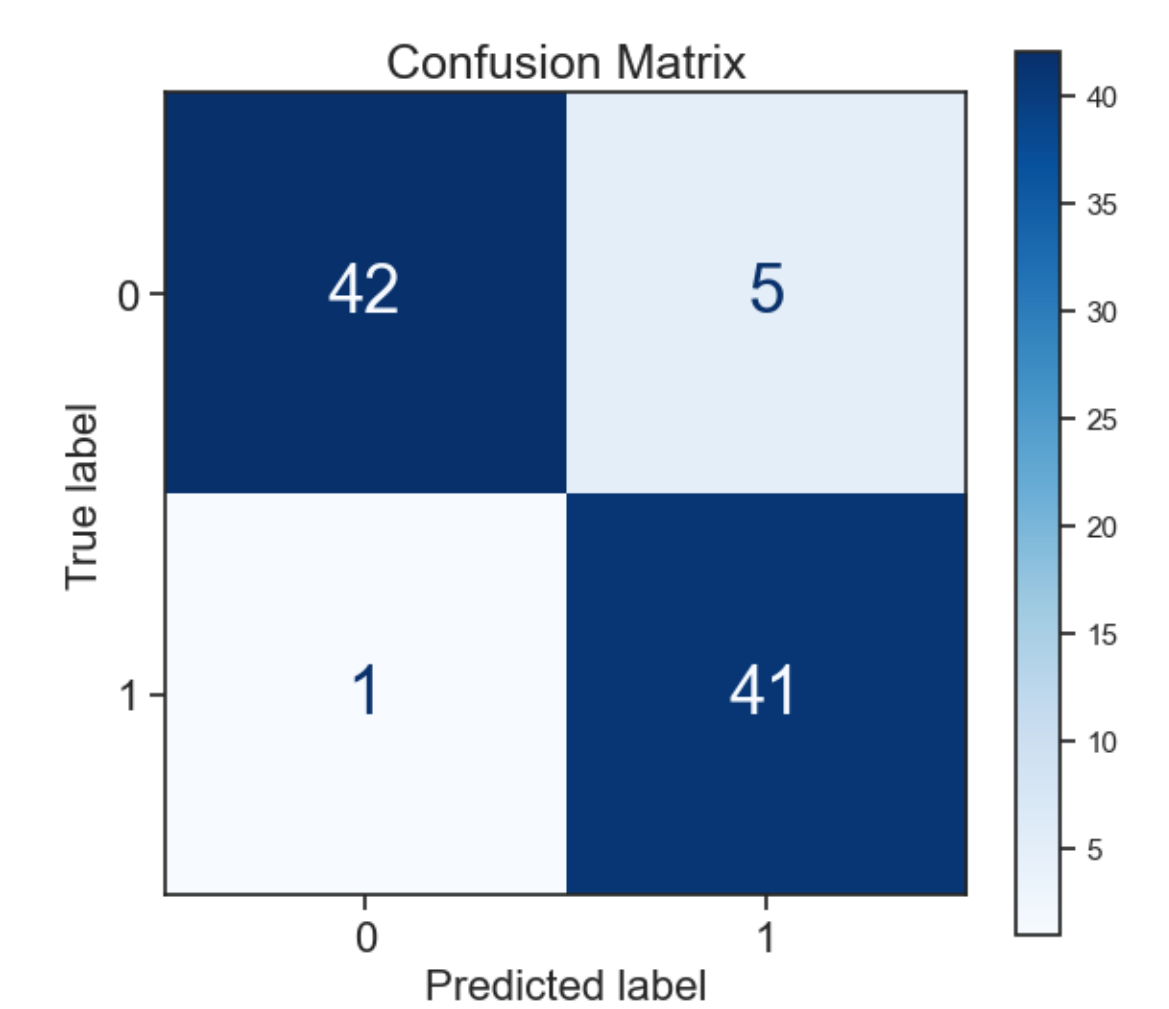


Protein: P19793 - metric: balanced_accuracy

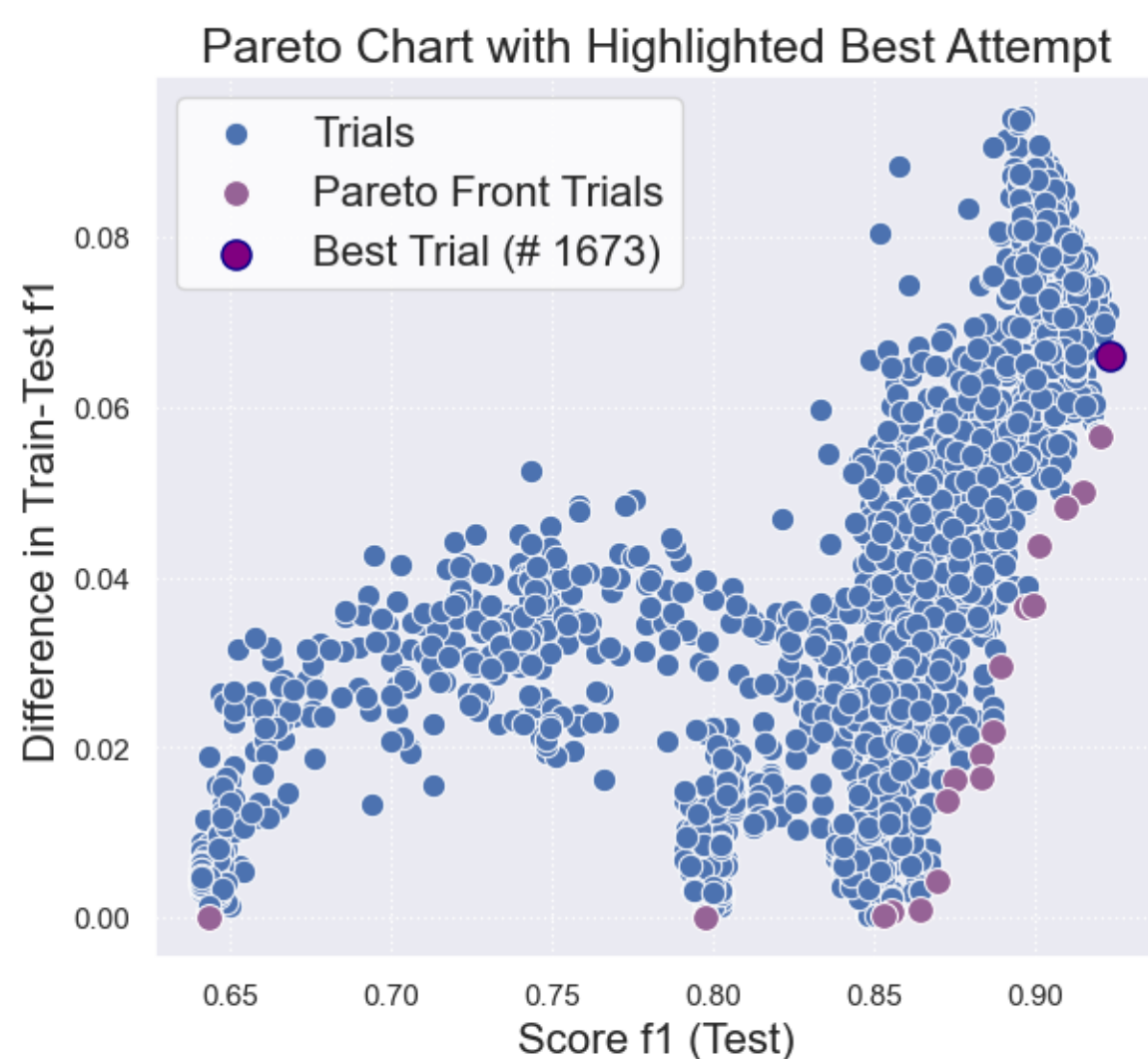
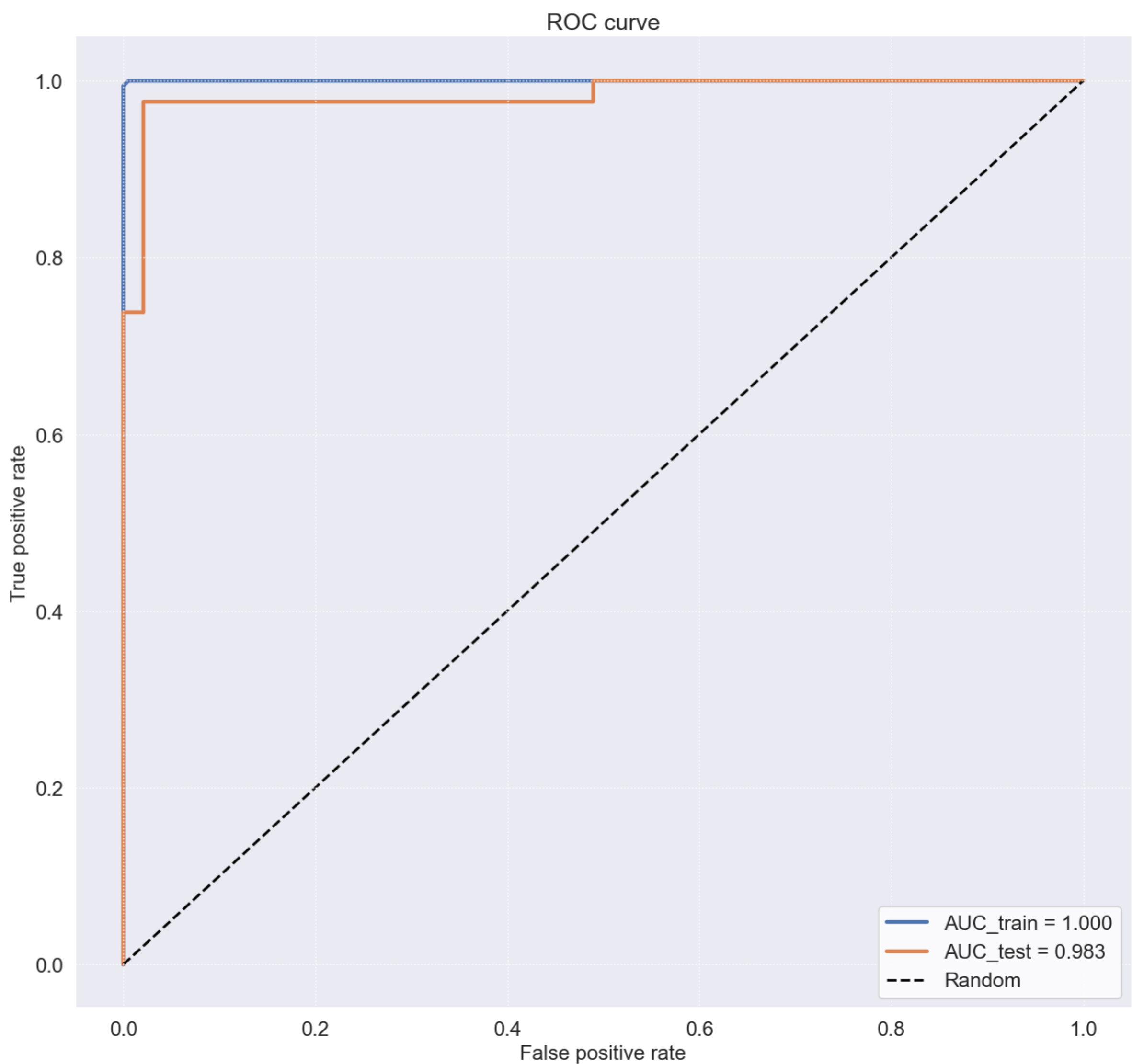
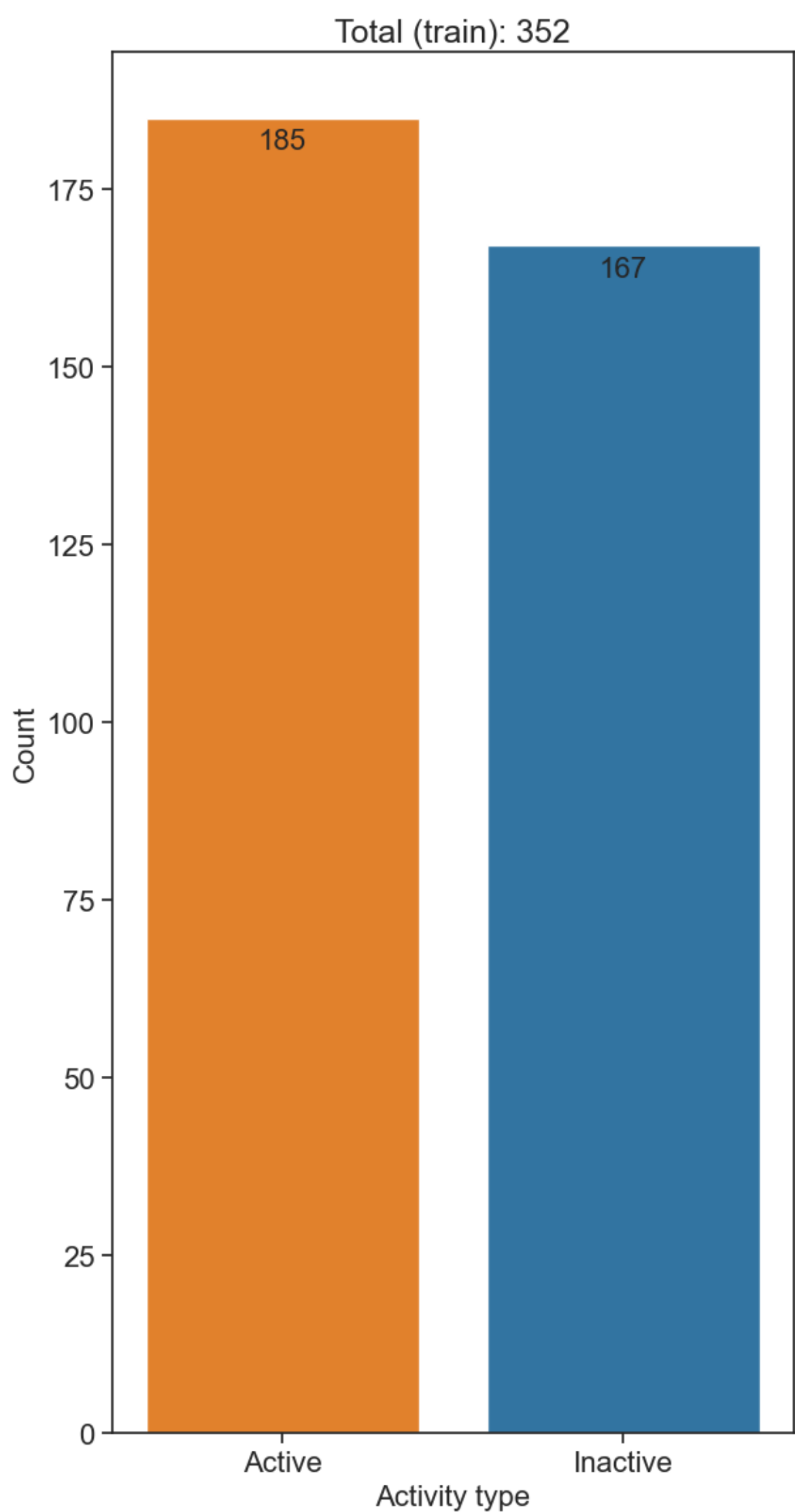


XGBoost Parameters	Value
alpha	4.2429
colsample_bytree	0.963
gamma	0.5315
lambda	2.9912
learning_rate	0.1242
max_depth	3.0
min_child_weight	3.0
n_estimators	692.0
reg_alpha	0.1892
reg_lambda	0.0183
scale_pos_weight	50.1312
subsample	0.5217

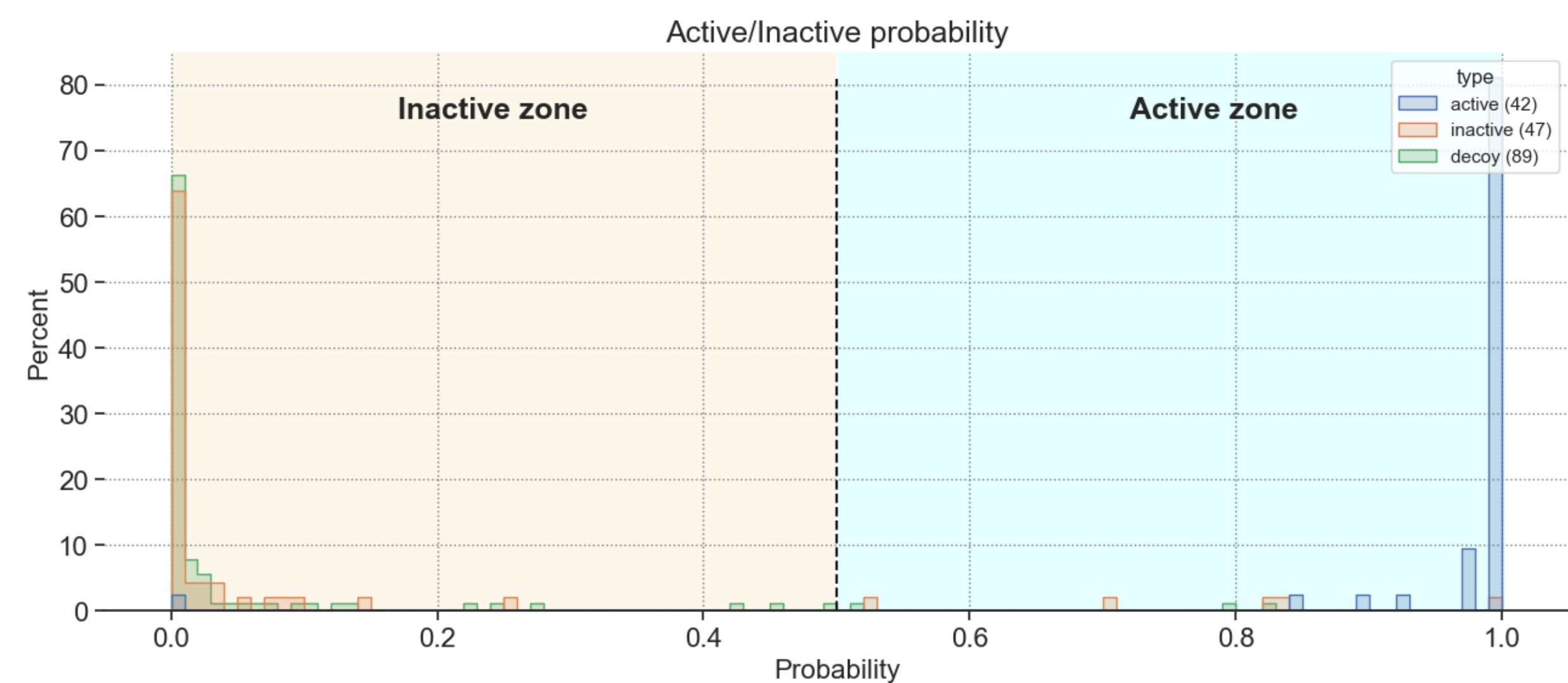
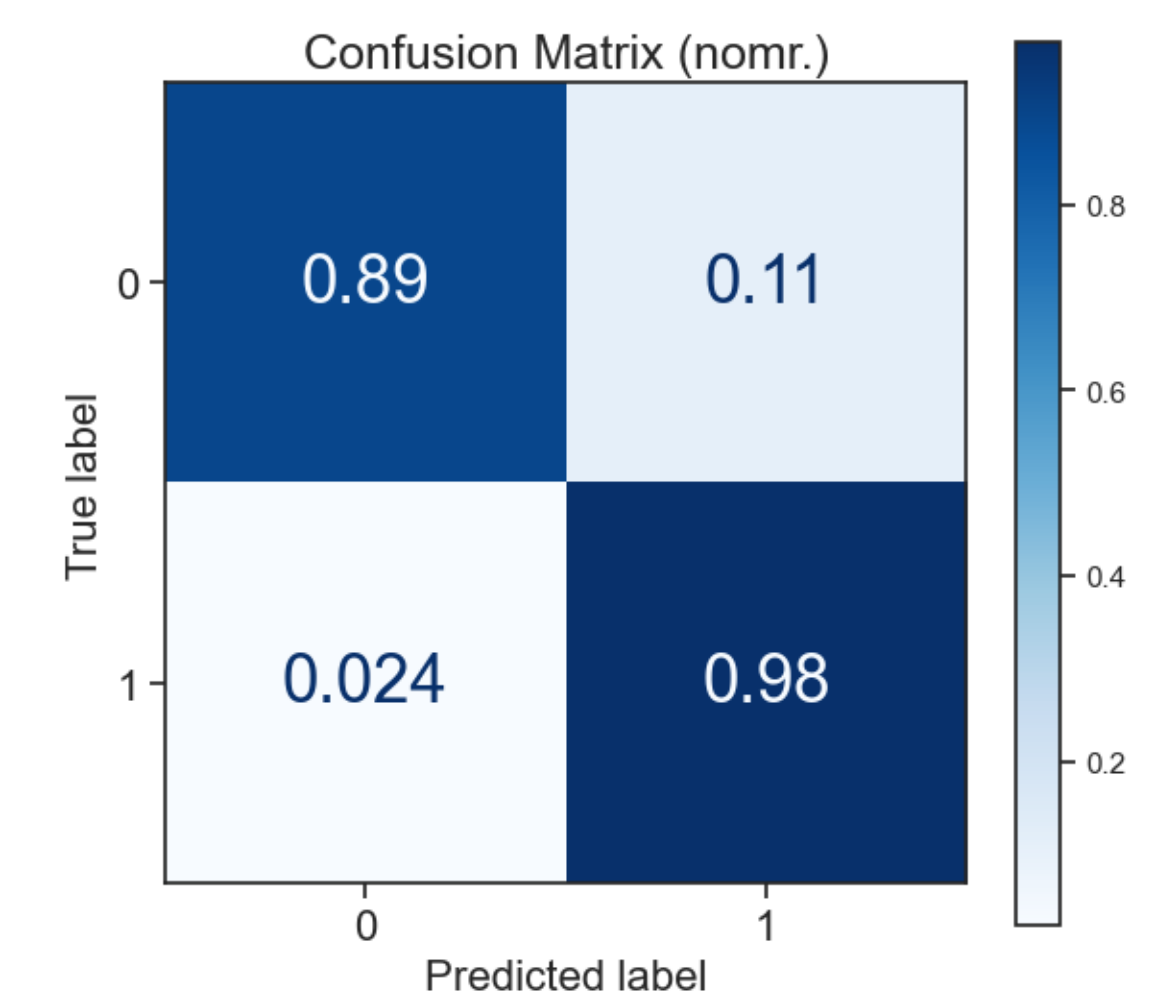
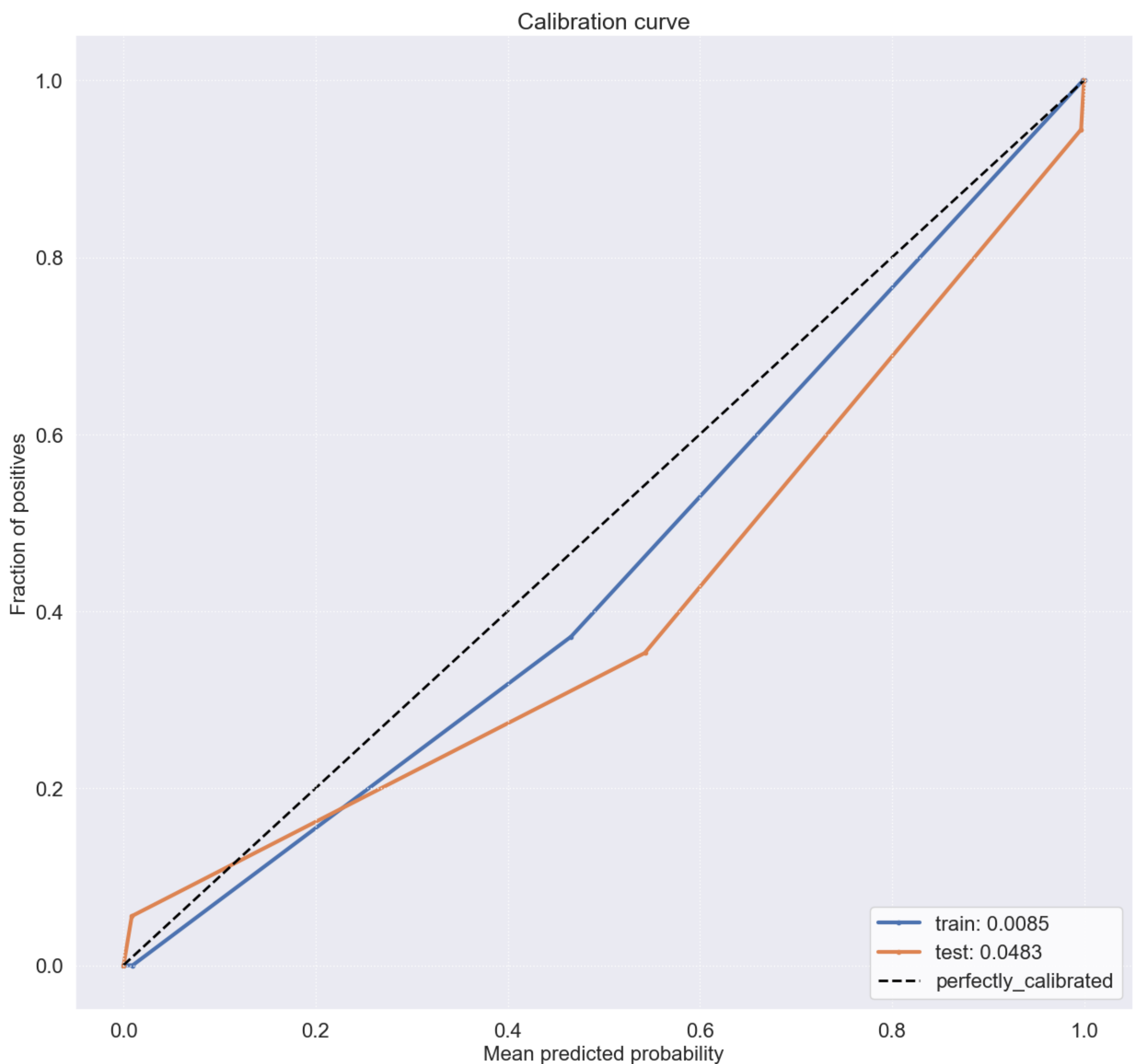
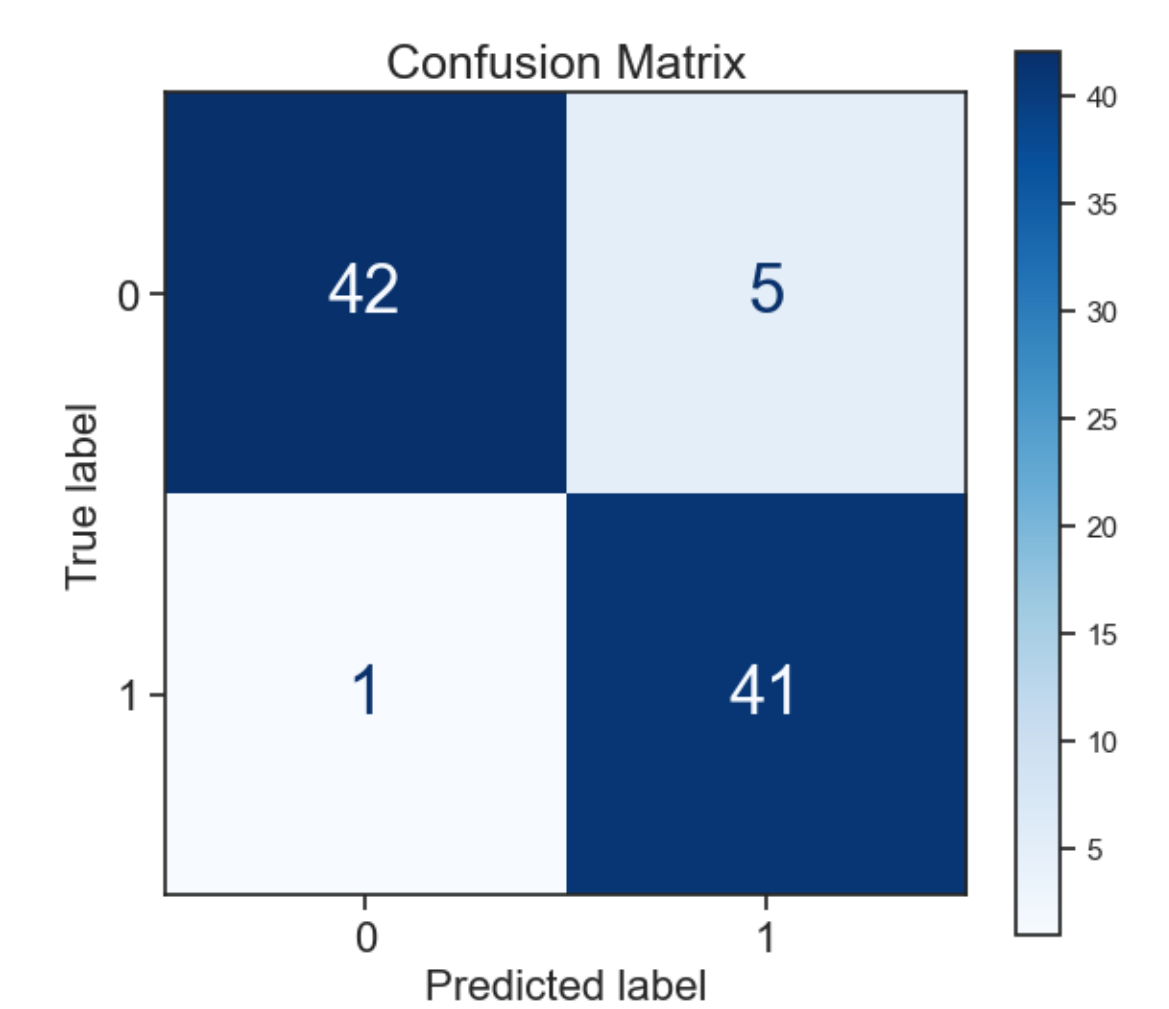


Metric	Train	Test
AUC	0.995	0.9686
accuracy	0.9659	0.9326
balanced accuracy	0.9676	0.9349
recall_(sens)	1.0	0.9762
specificity	0.9351	0.8936
precision	0.933	0.8913
f1_score	0.9659	0.9326

Protein: P19793 - metric: f1

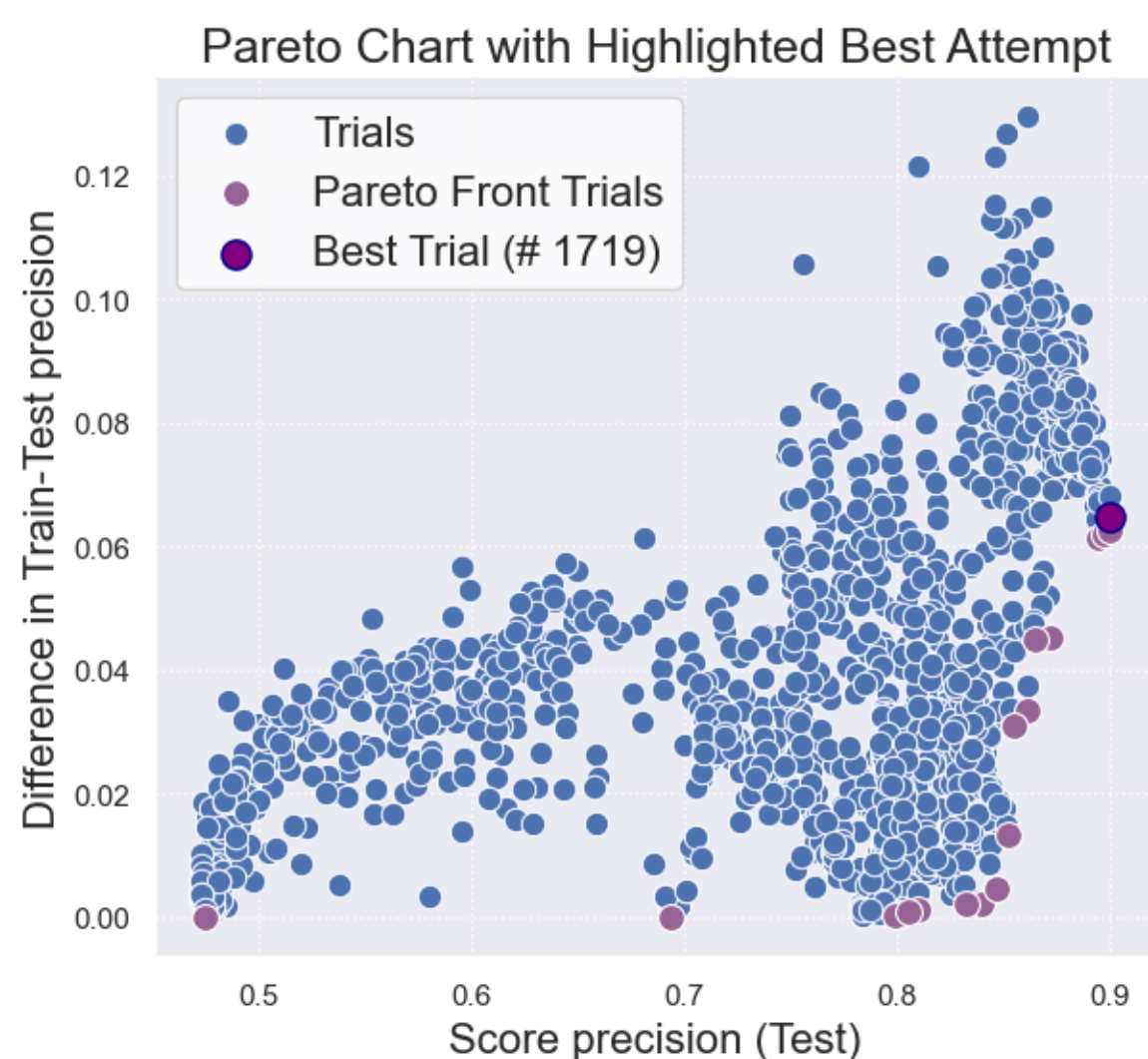
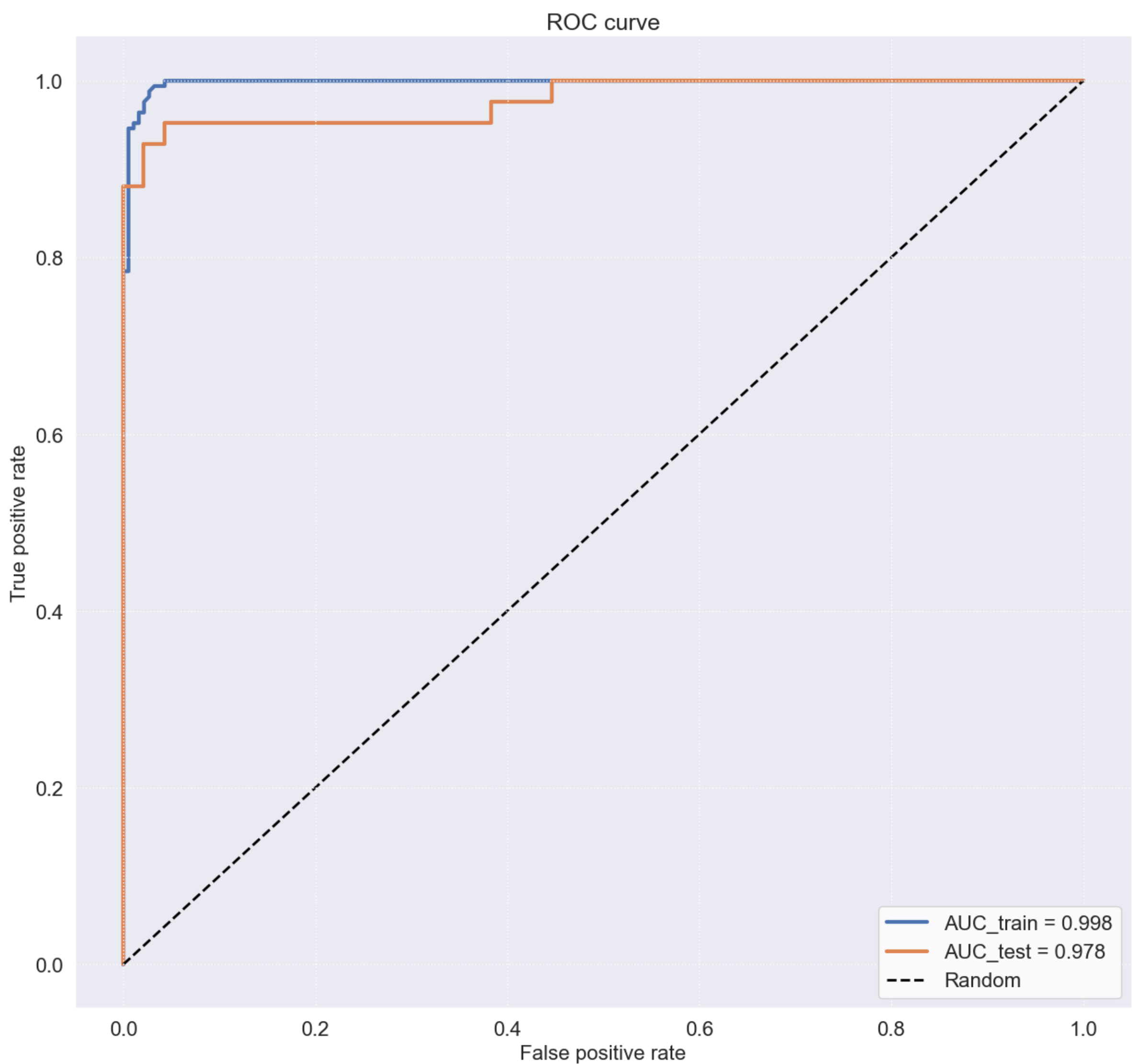
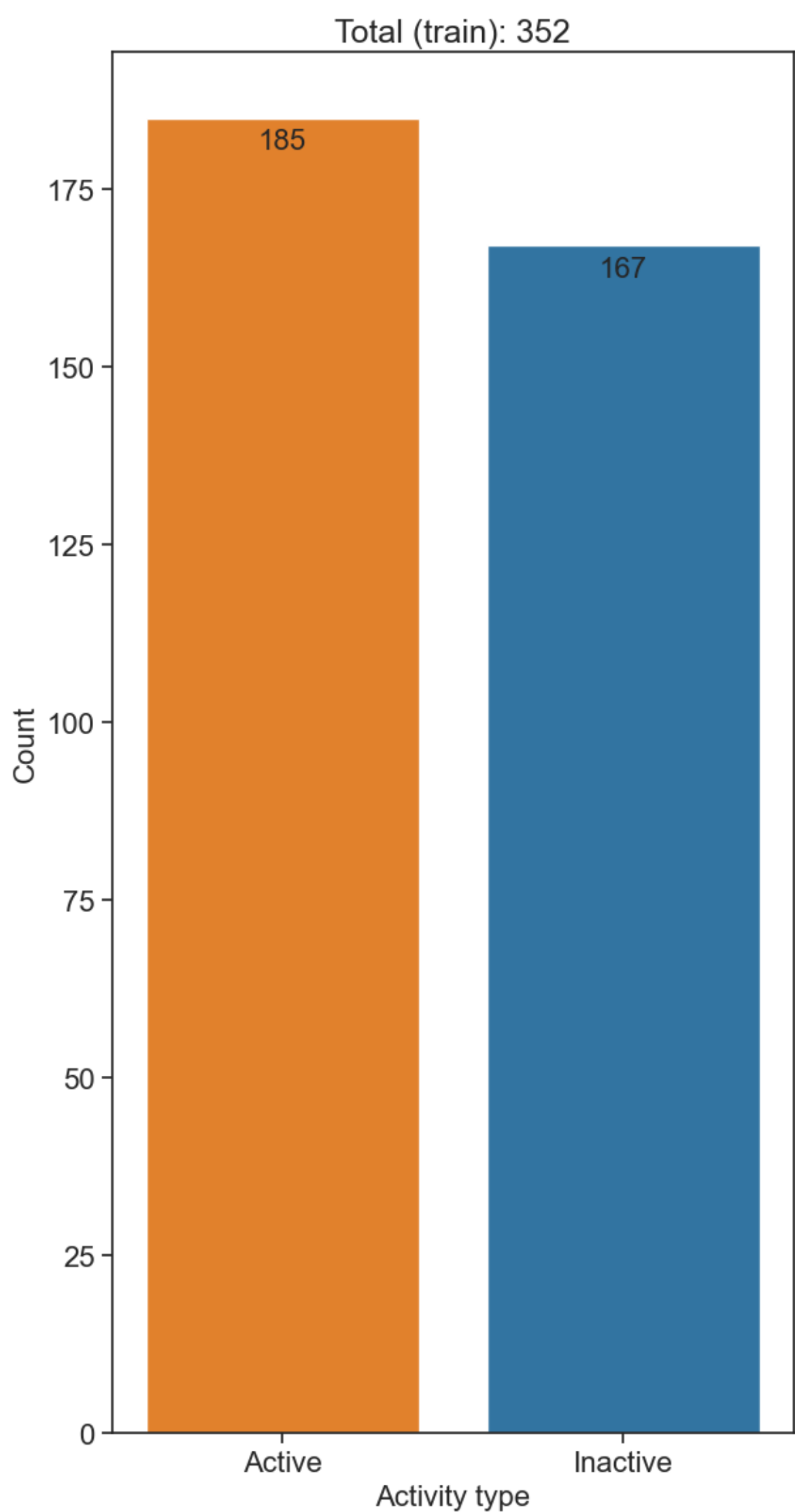


XGBoost Parameters	Value
alpha	4.4634
colsample_bytree	0.6164
gamma	0.086
lambda	1.8294
learning_rate	0.3562
max_depth	5.0
min_child_weight	1.0
n_estimators	313.0
reg_alpha	0.5757
reg_lambda	0.4371
scale_pos_weight	25.2867
subsample	0.6867

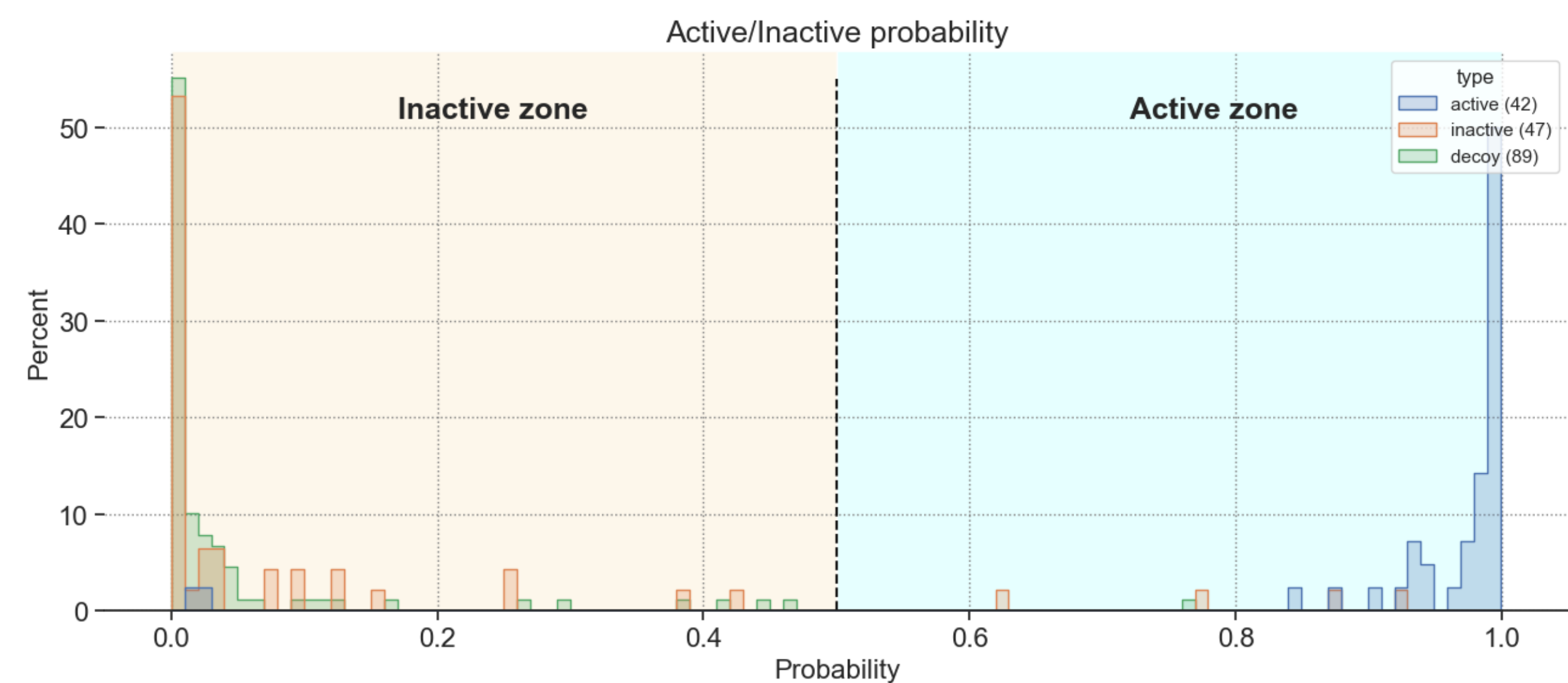
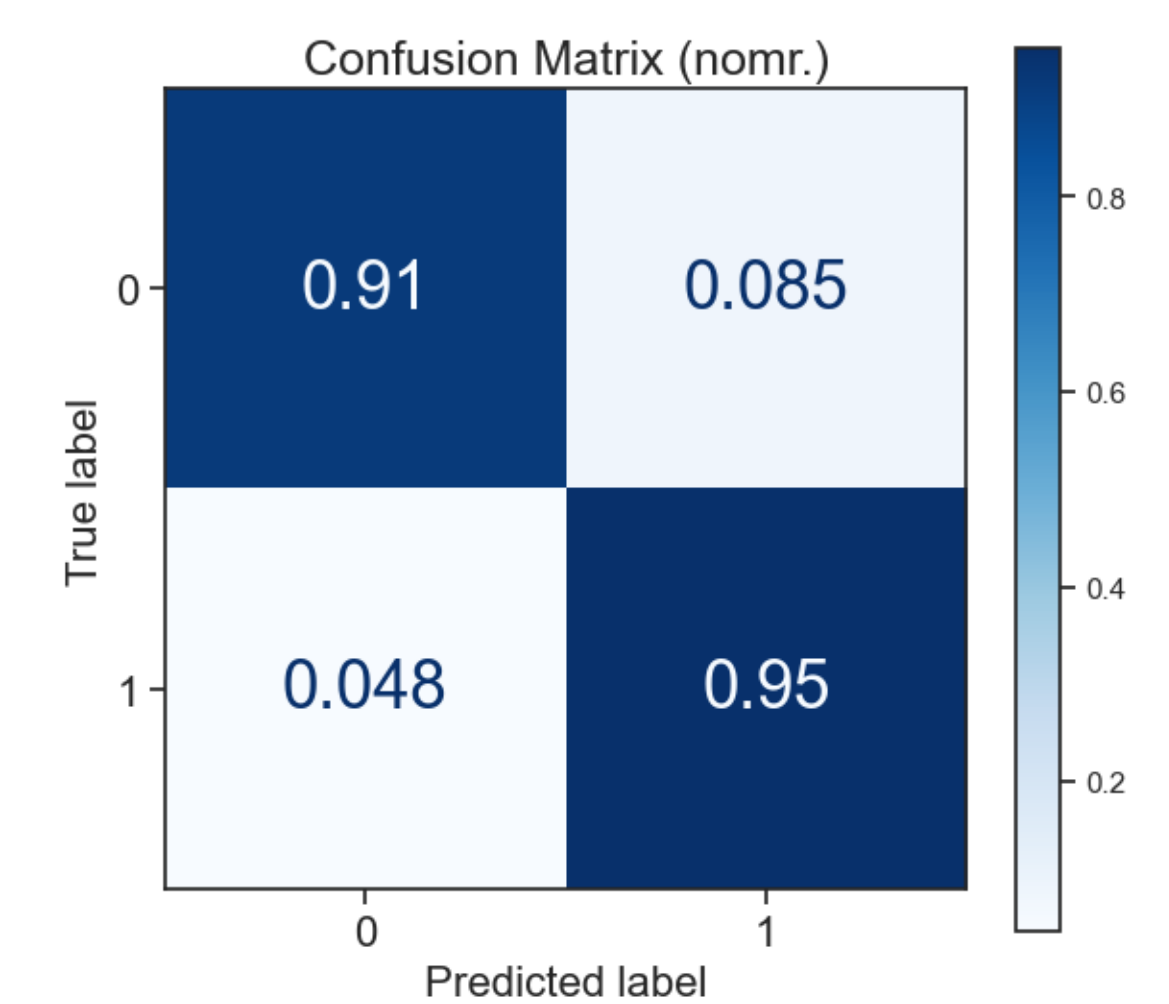
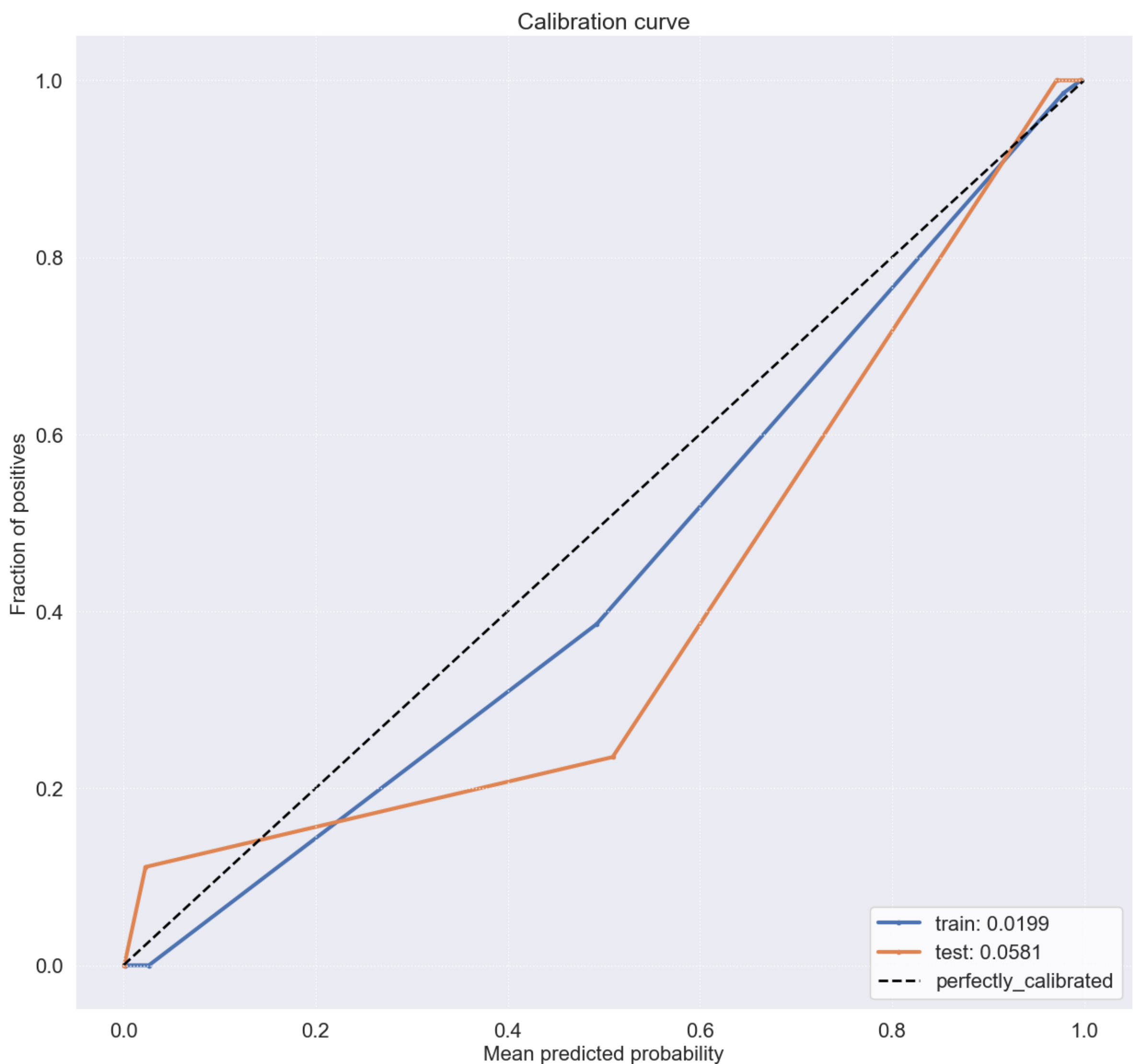
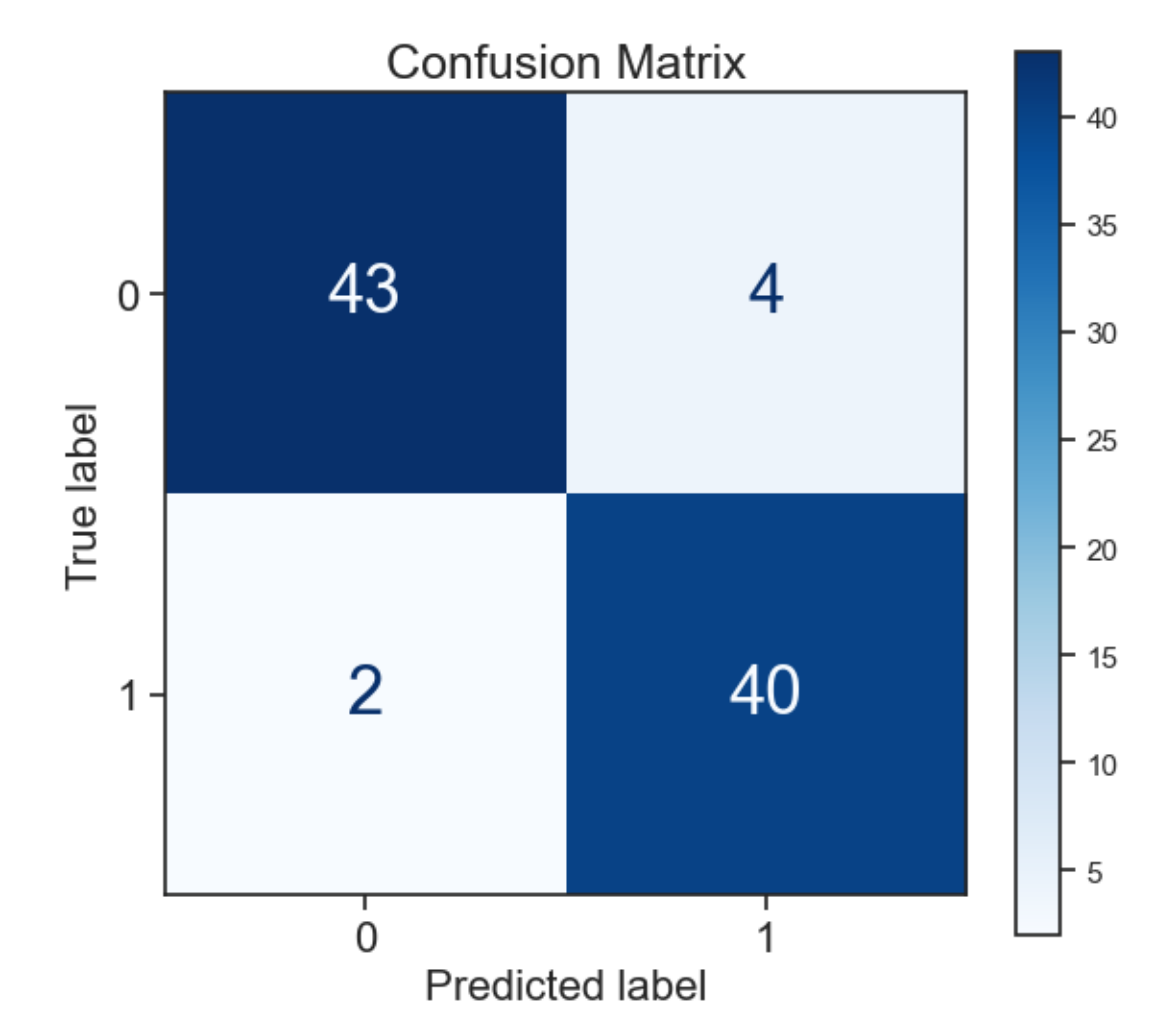


Metric	Train	Test
AUC	1.0	0.9833
accuracy	0.9886	0.9326
balanced accuracy	0.9892	0.9349
recall_(sens)	1.0	0.9762
specificity	0.9784	0.8936
precision	0.9766	0.8913
f1_score	0.9886	0.9326

Protein: P19793 - metric: precision

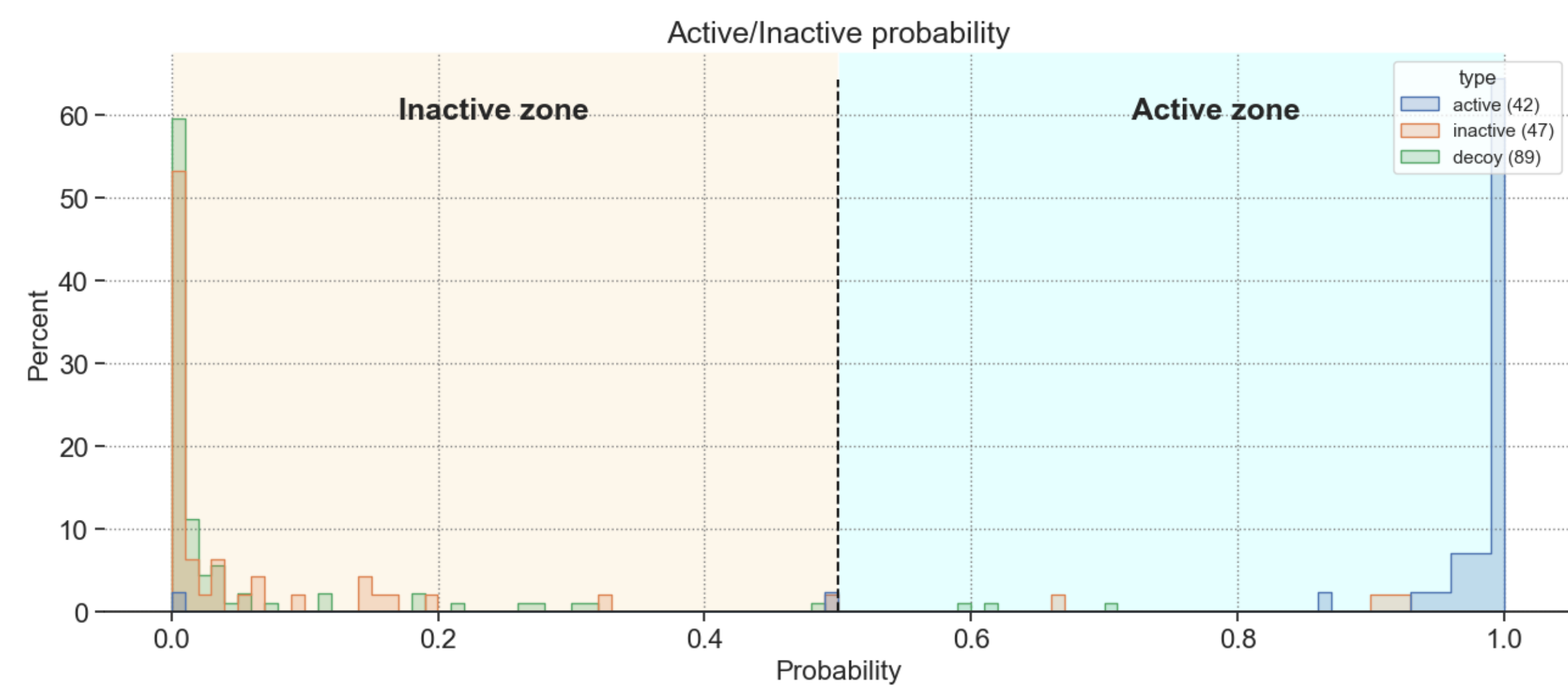
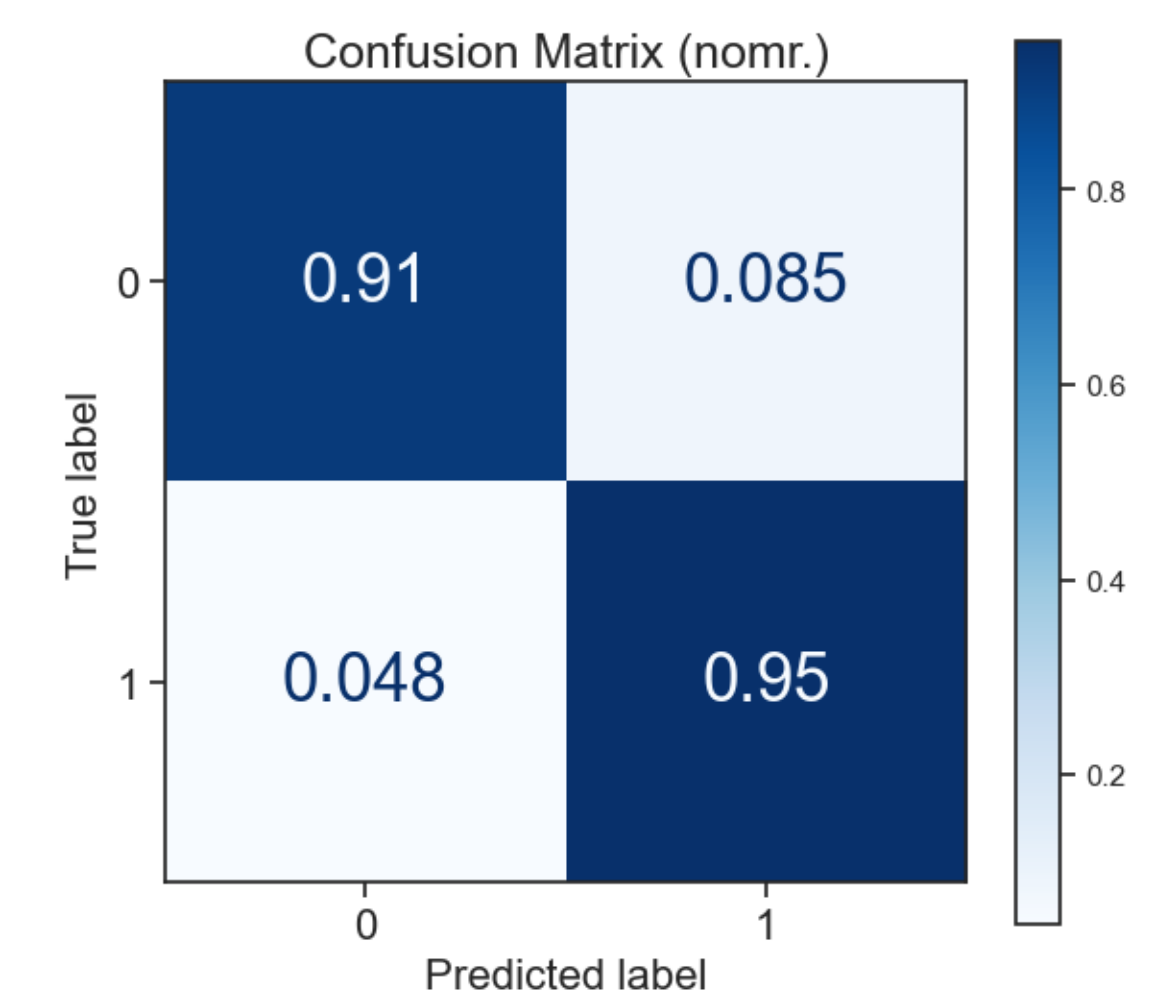
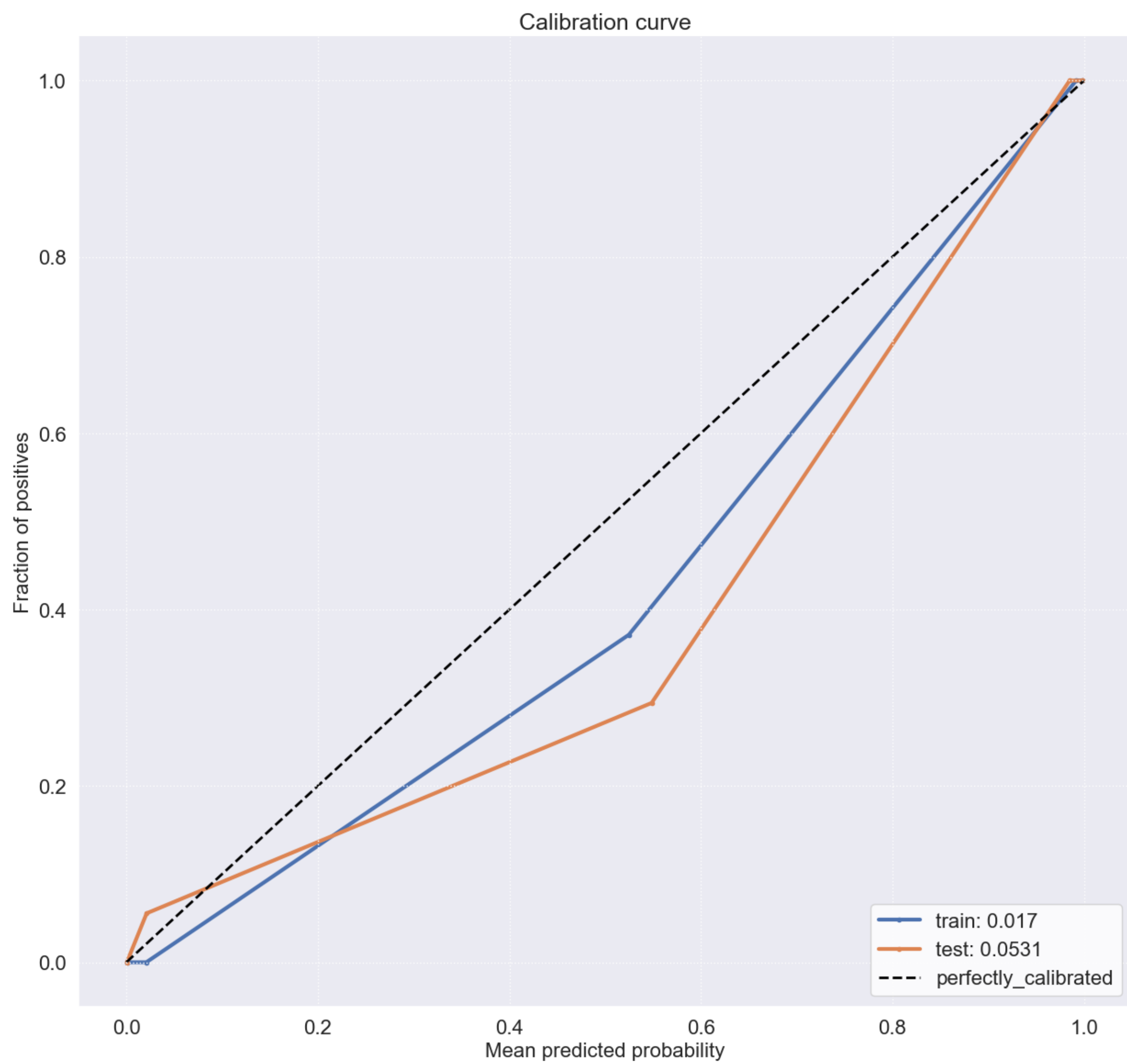
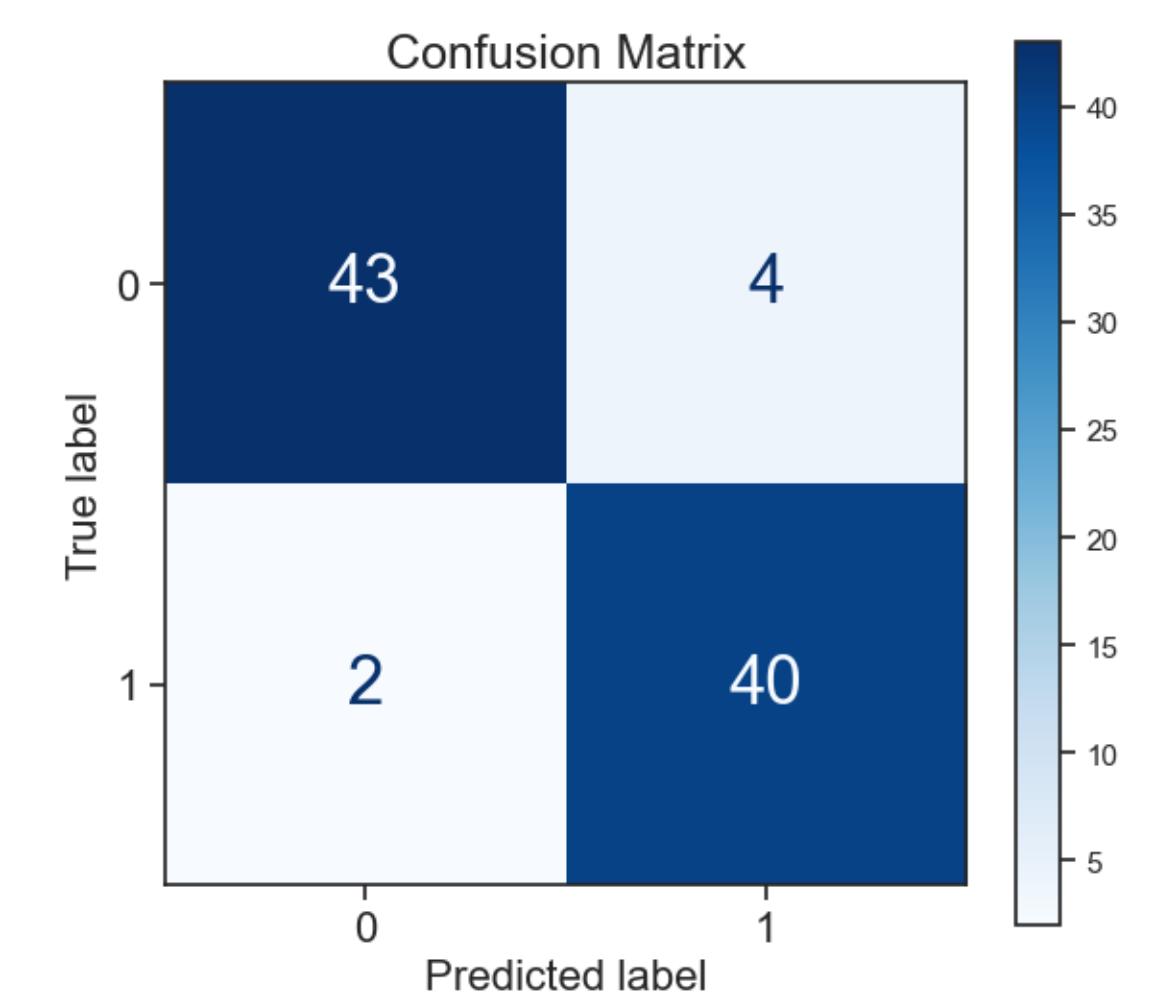
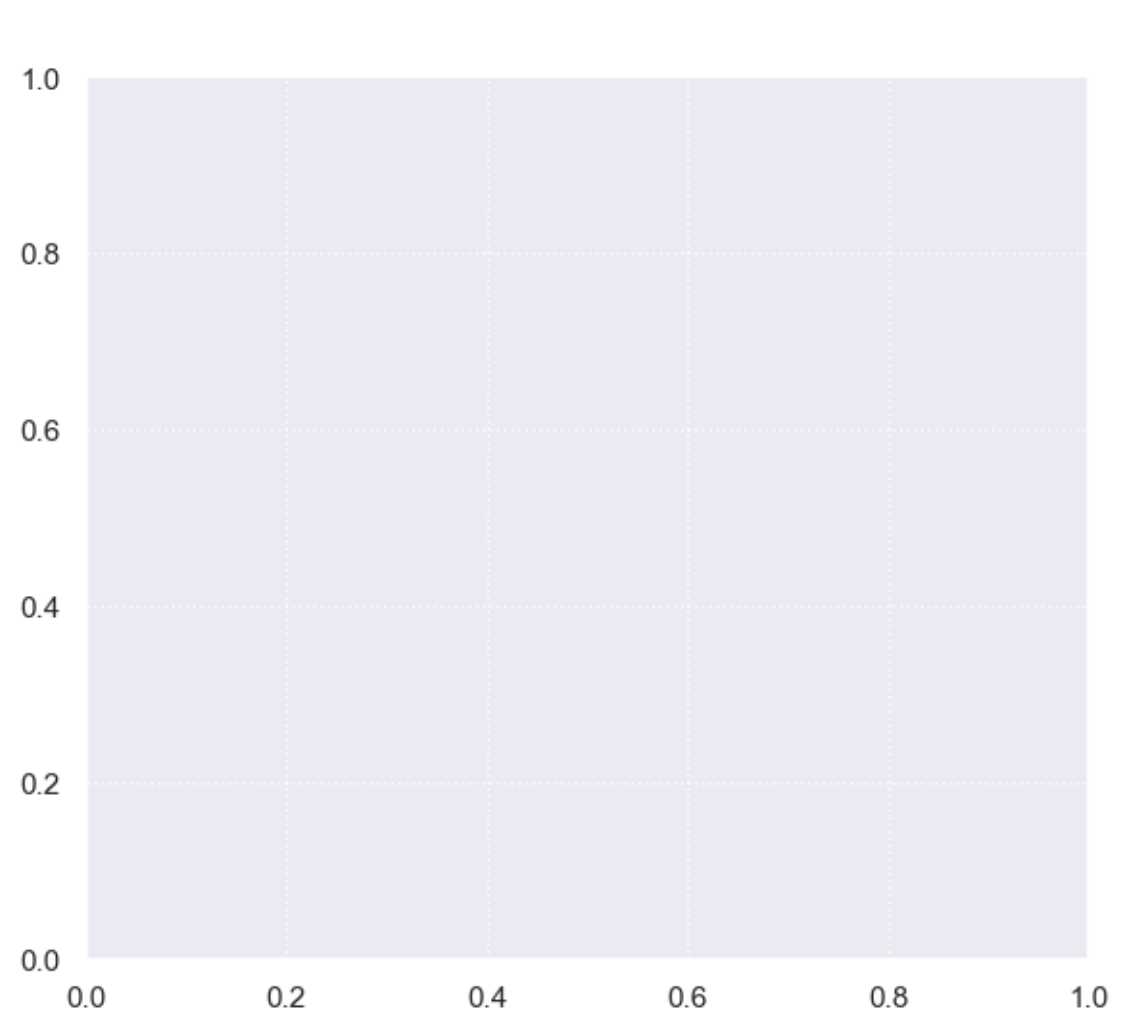
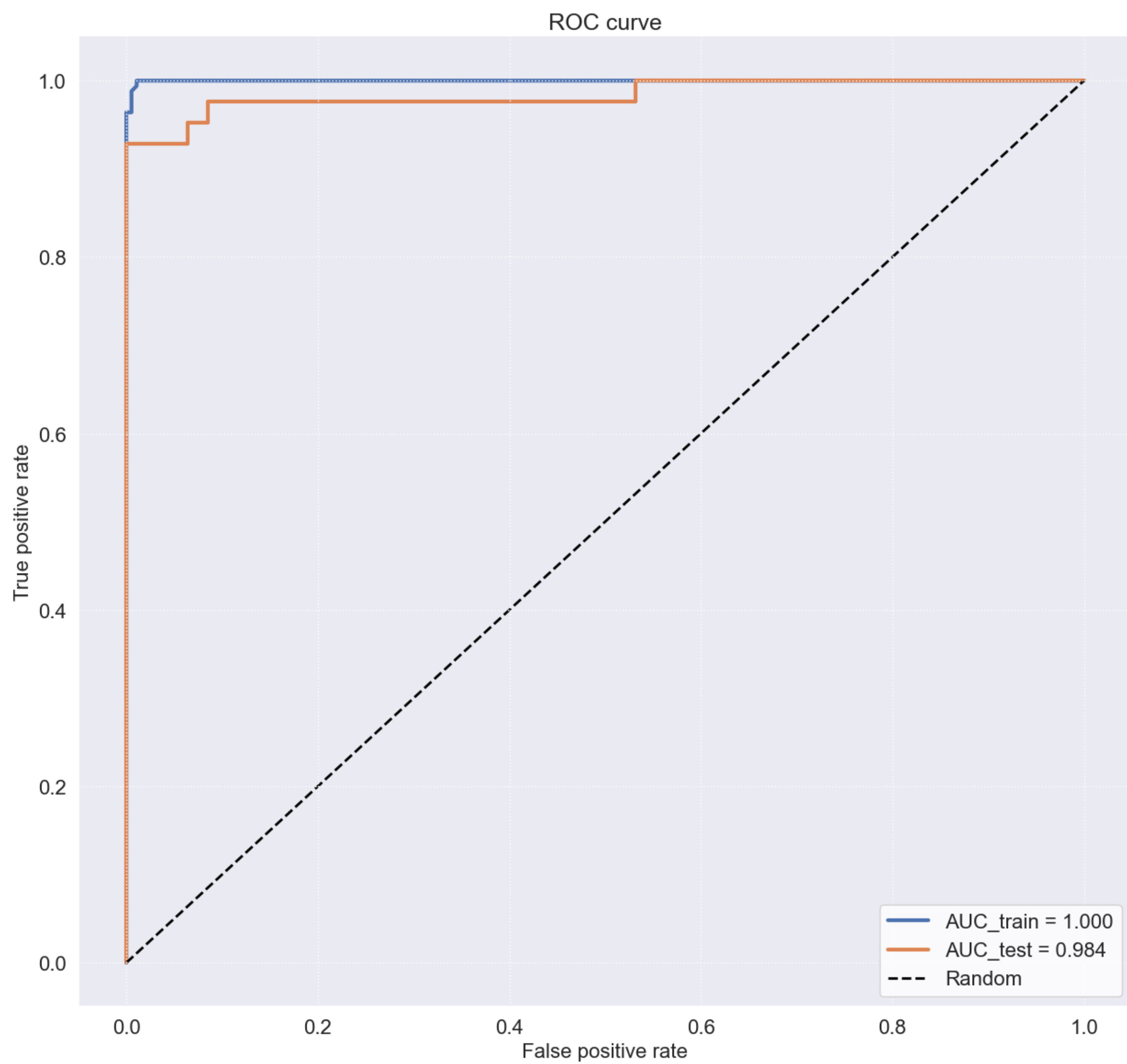
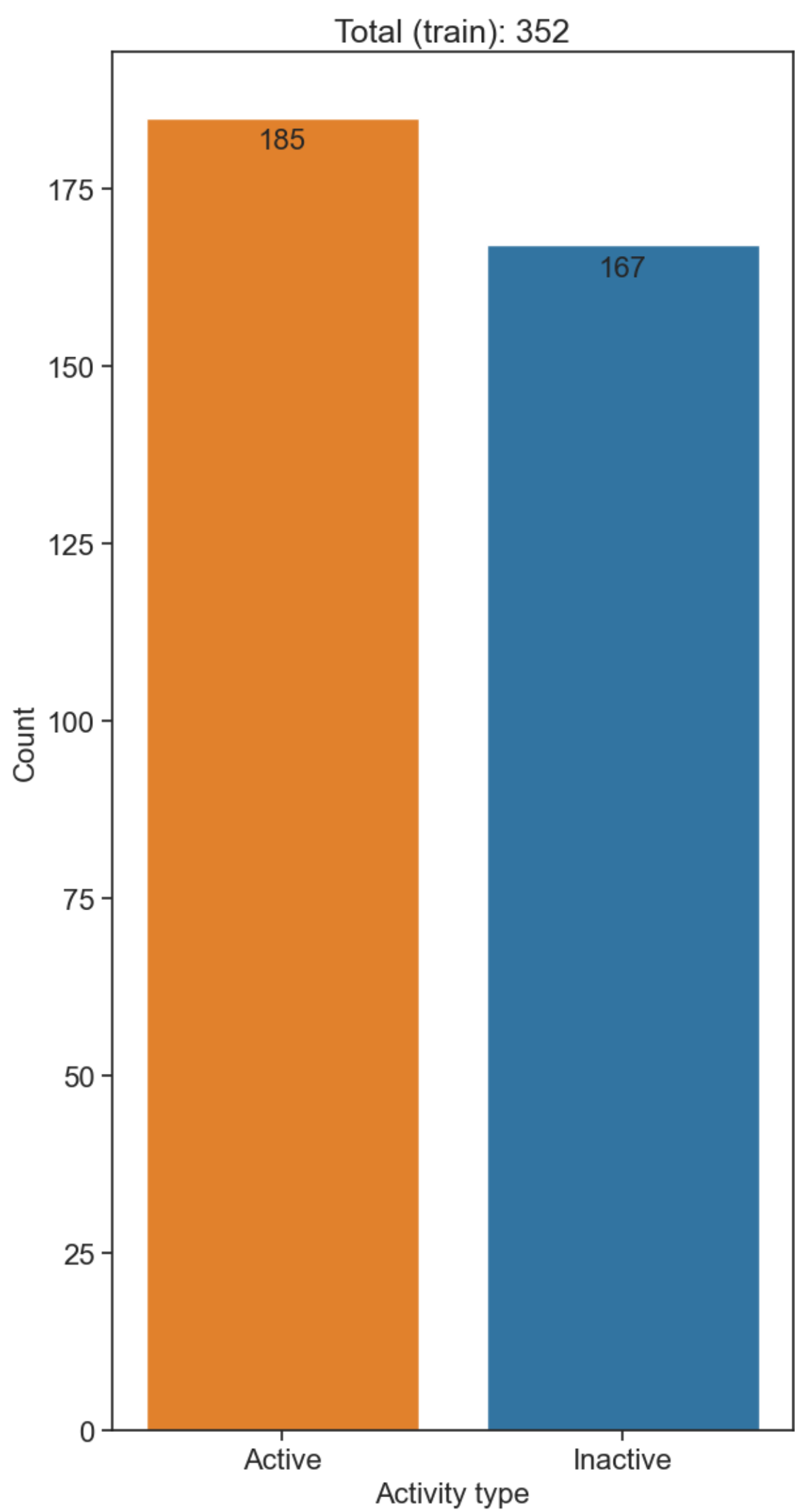


XGBoost Parameters	Value
alpha	1.7722
colsample_bytree	0.7288
gamma	0.119
lambda	4.6043
learning_rate	0.1714
max_depth	9.0
min_child_weight	2.0
n_estimators	335.0
reg_alpha	0.2269
reg_lambda	0.8956
scale_pos_weight	2.4632
subsample	0.5541



Metric	Train	Test
AUC	0.9979	0.9782
accuracy	0.9801	0.9326
balanced accuracy	0.9808	0.9336
recall_(sens)	0.994	0.9524
specificity	0.9676	0.9149
precision	0.9651	0.9091
f1_score	0.9801	0.9326

Protein: P19793 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9998	0.9838
accuracy	0.9801	0.9326
balanced accuracy	0.9811	0.9336
recall_(sens)	1.0	0.9524
specificity	0.9622	0.9149
precision	0.9598	0.9091
f1_score	0.9801	0.9326