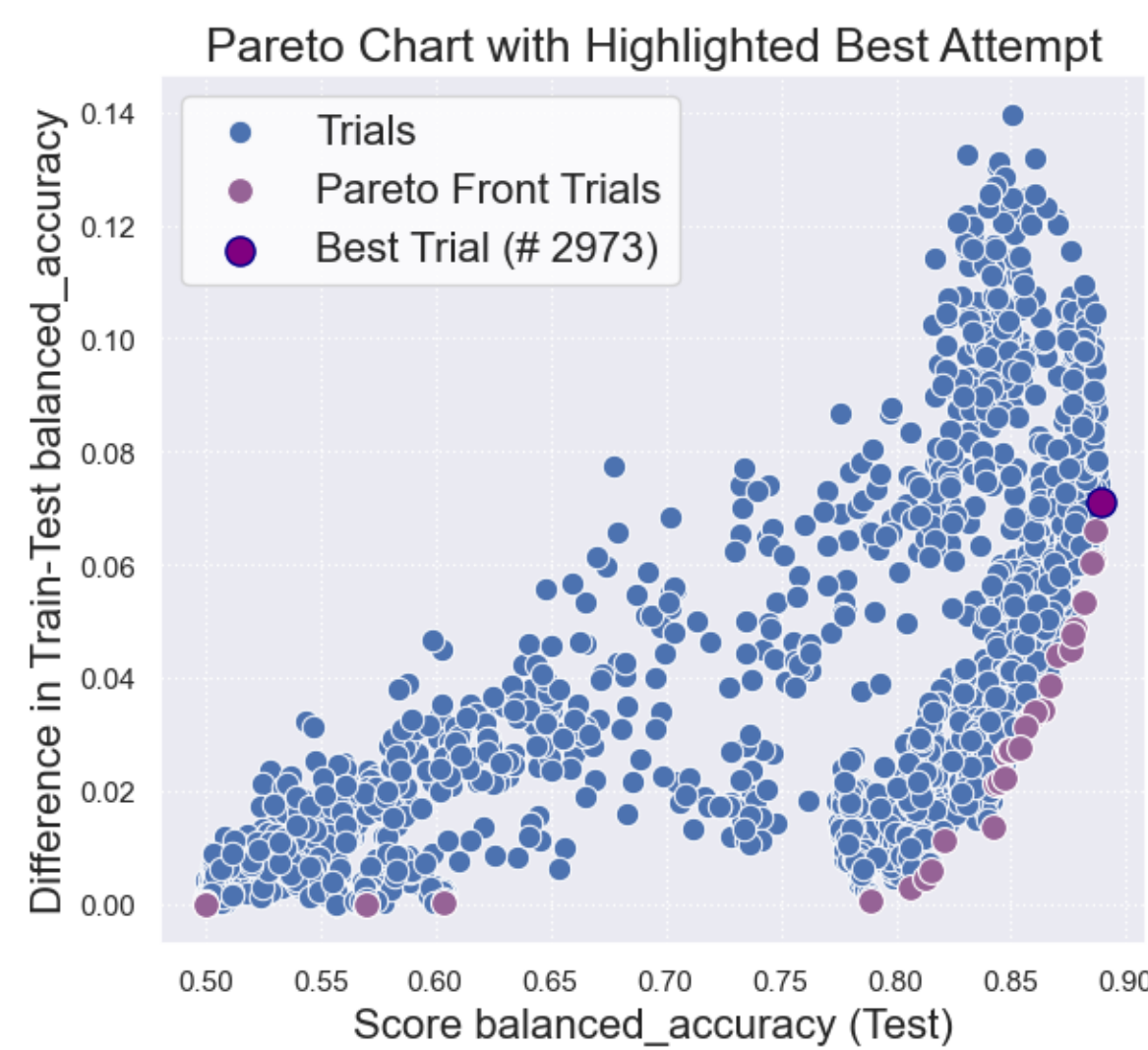
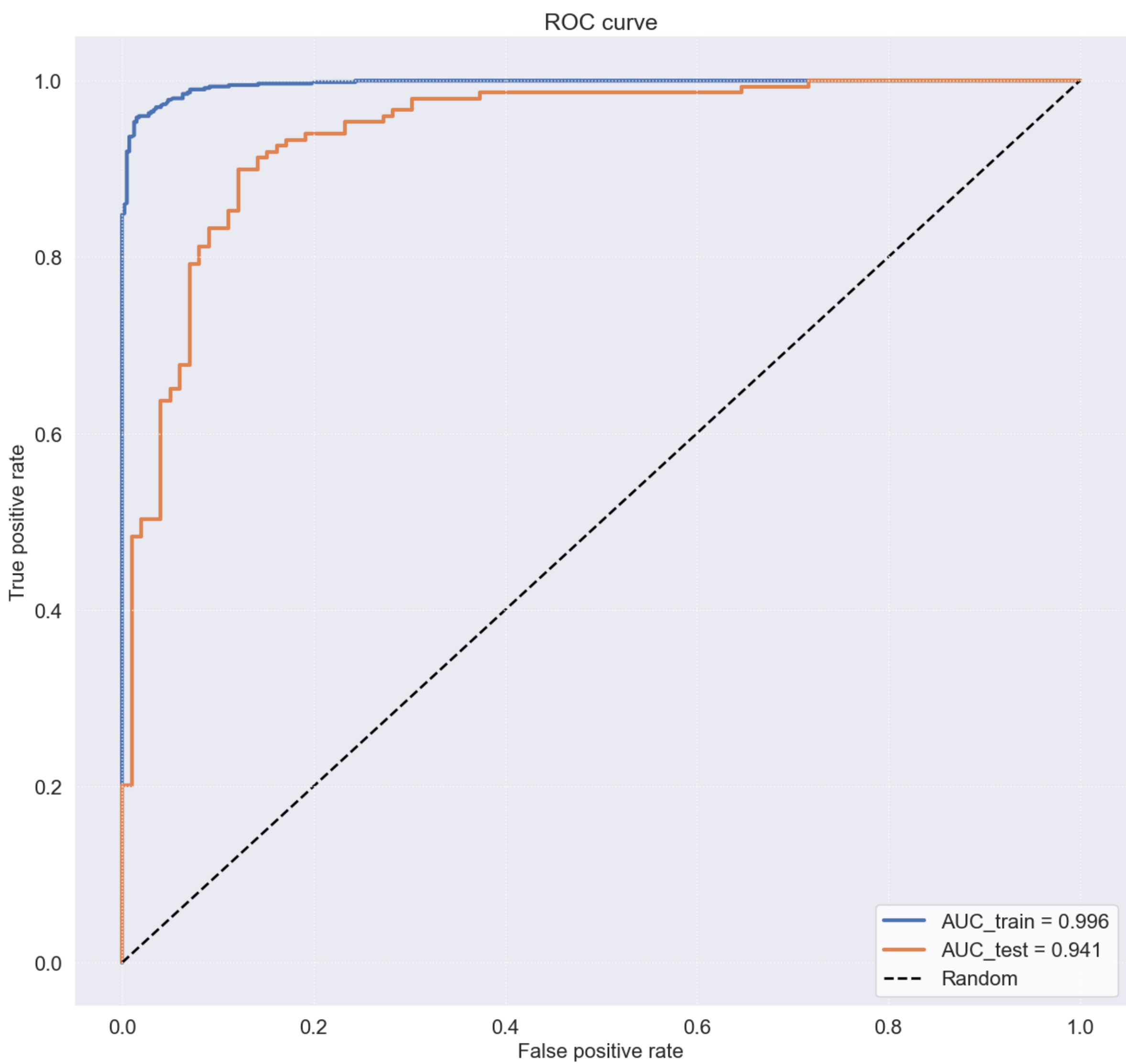
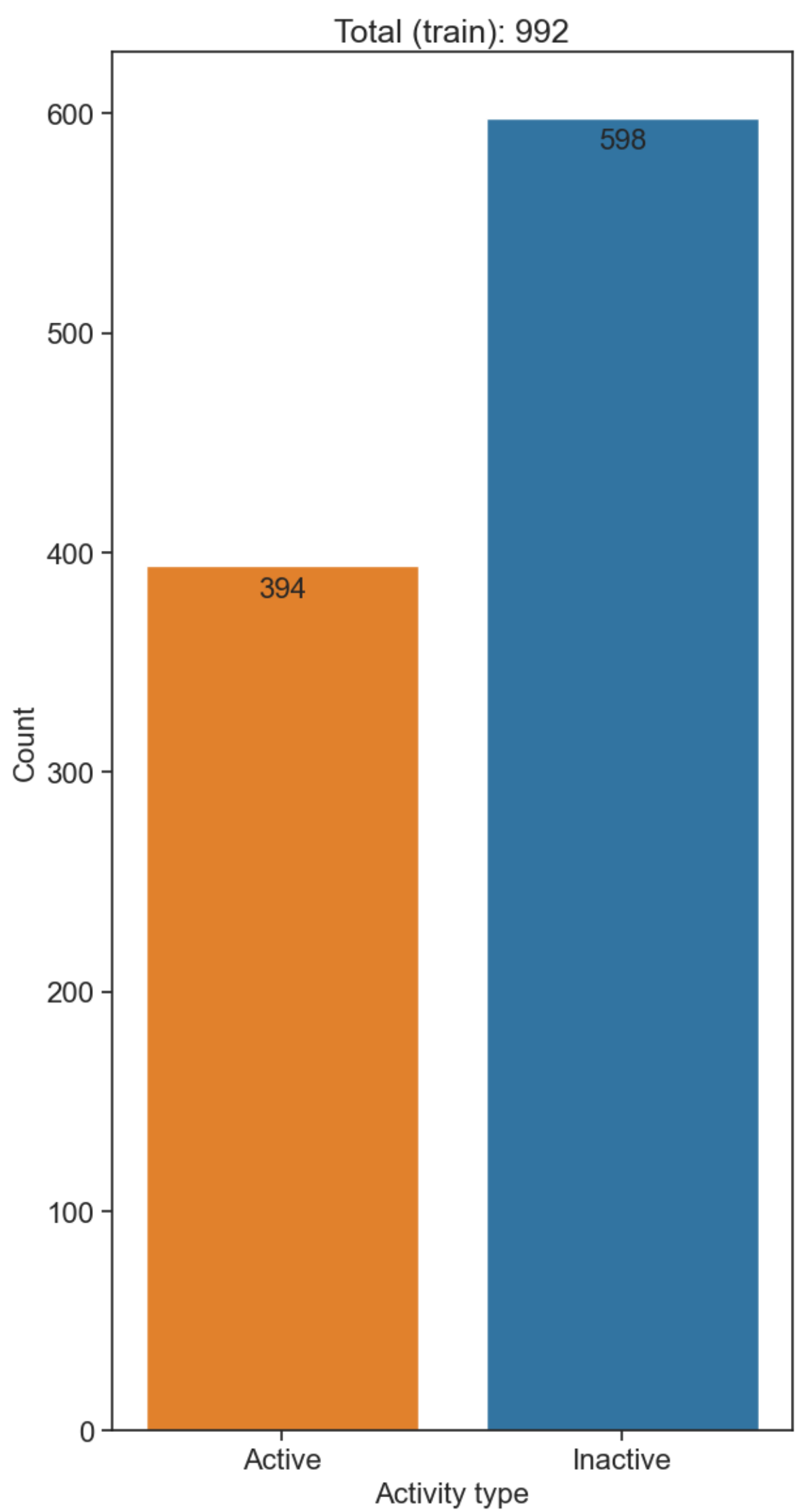
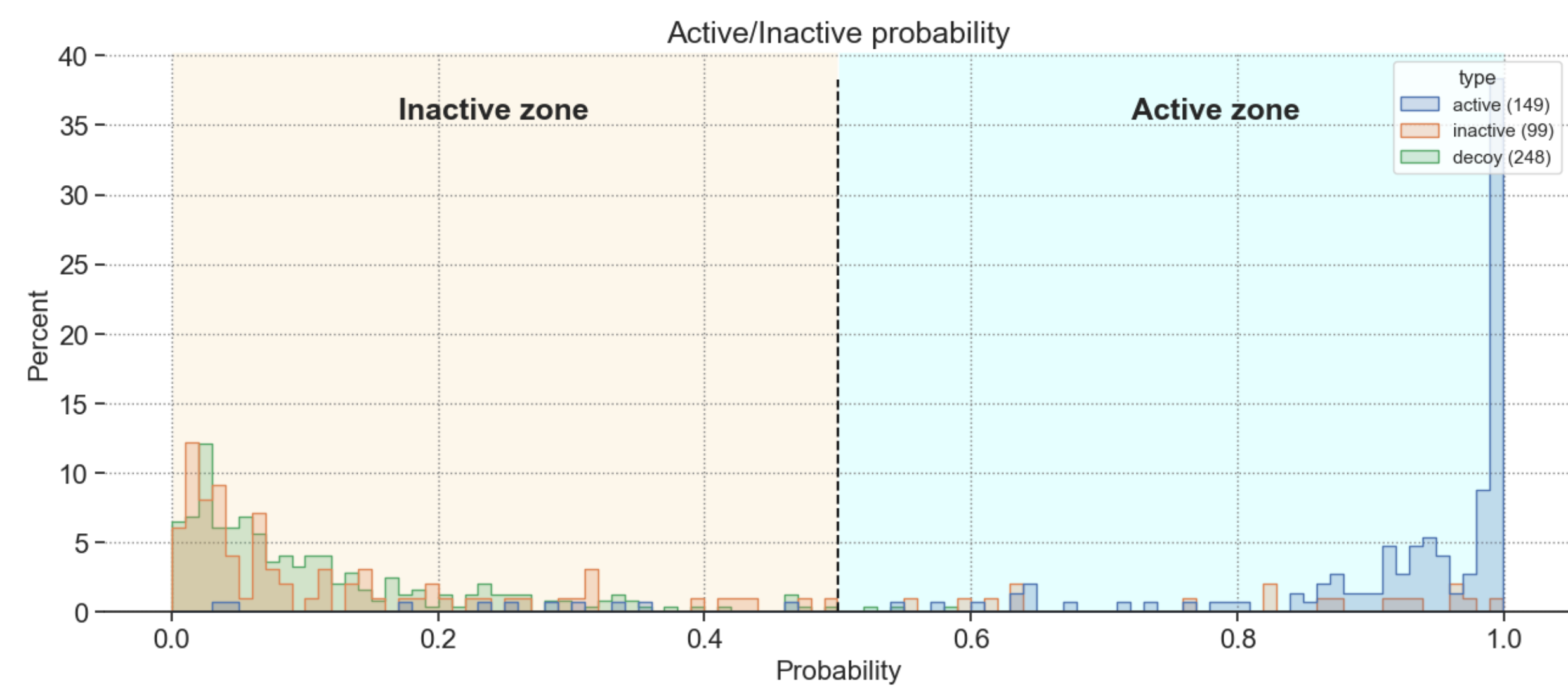
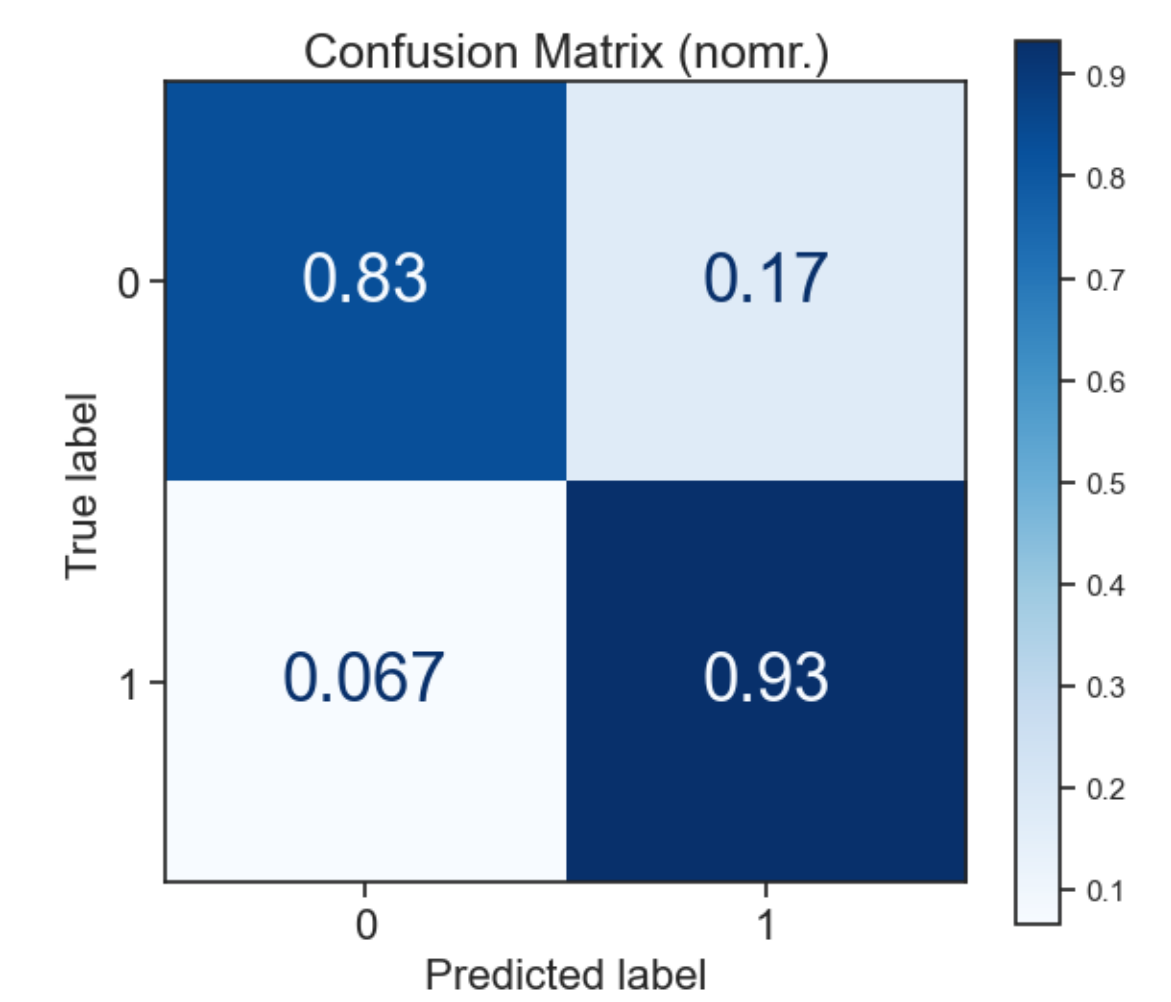
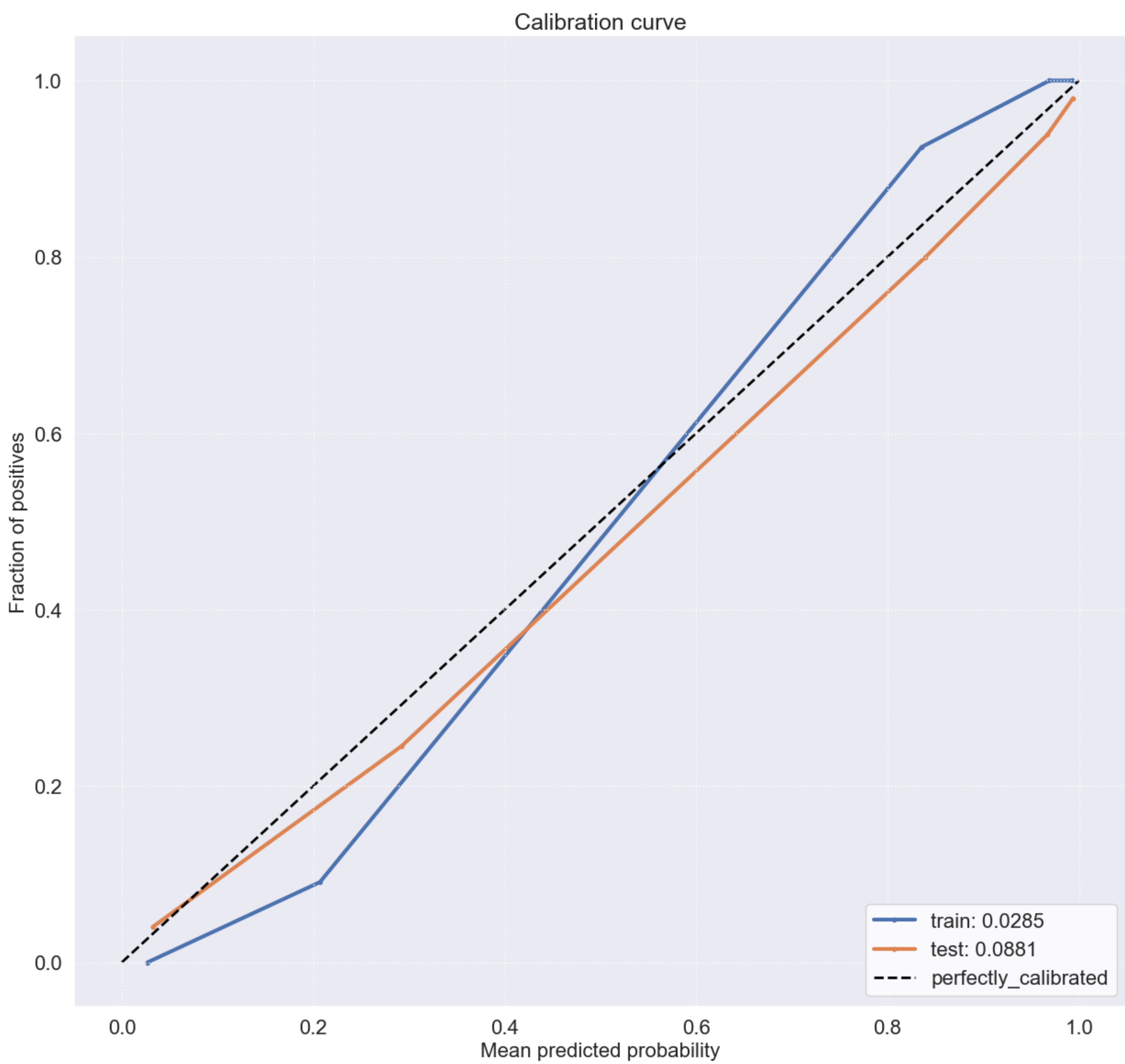
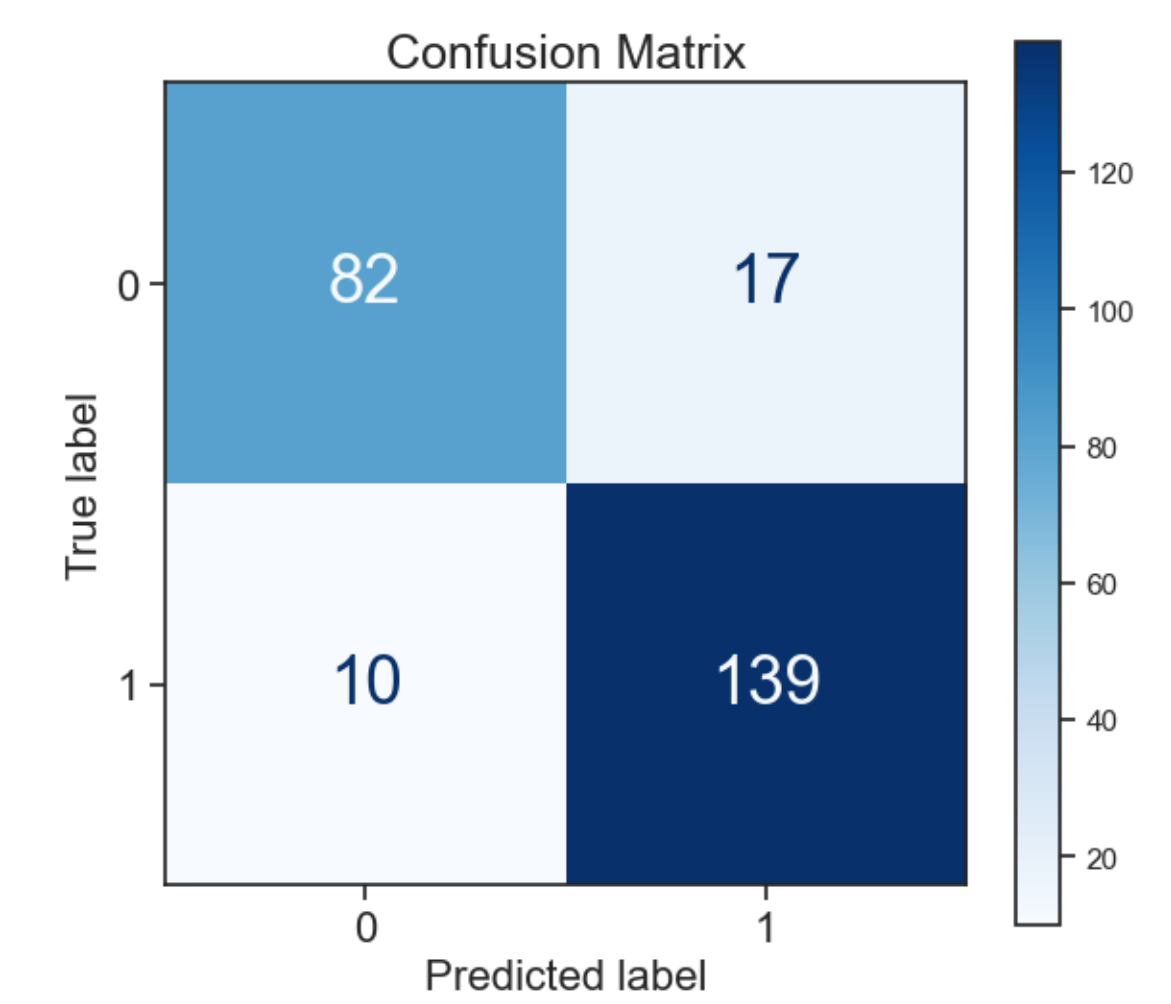


Protein: P35348 - metric: balanced_accuracy

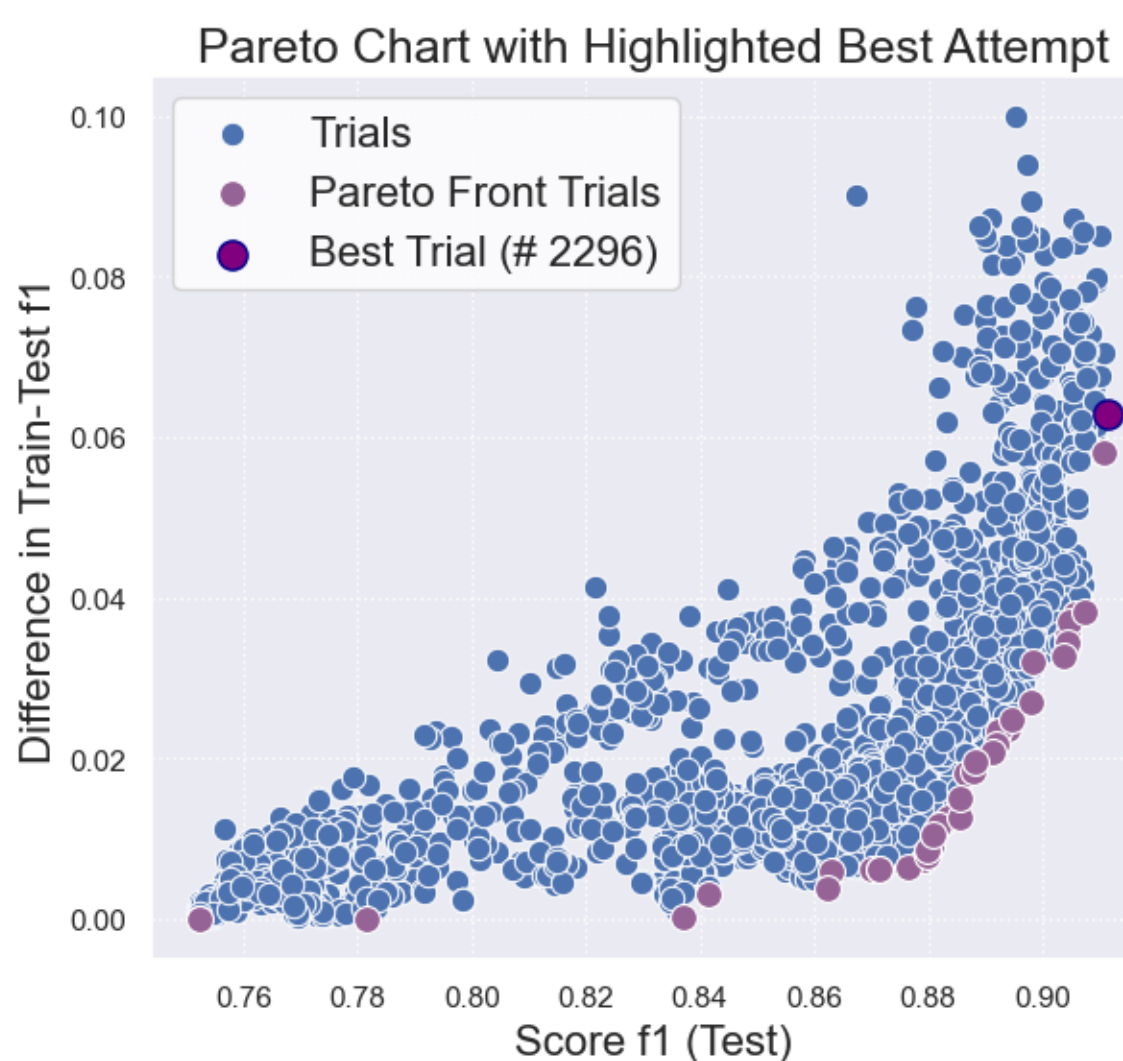
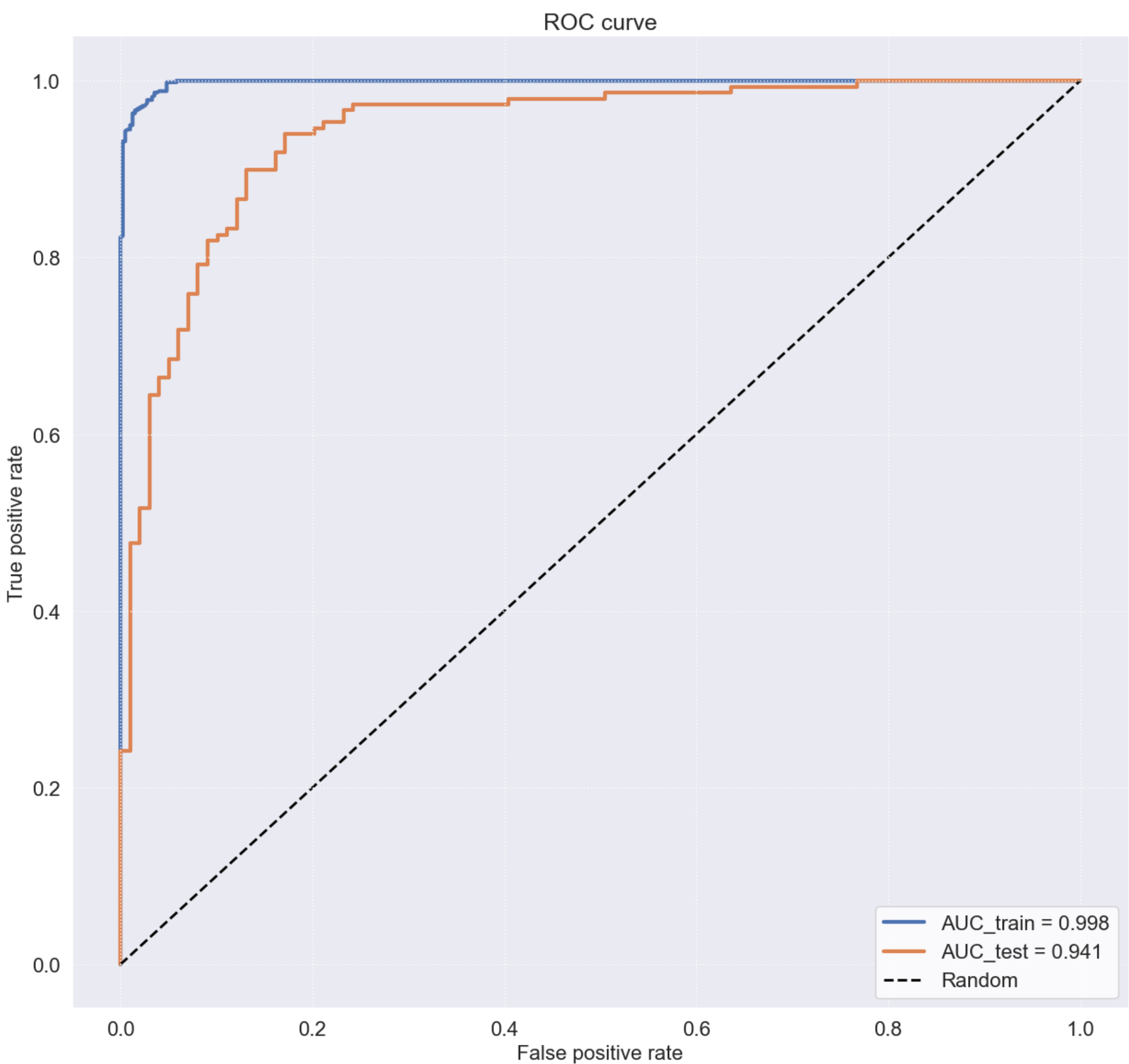
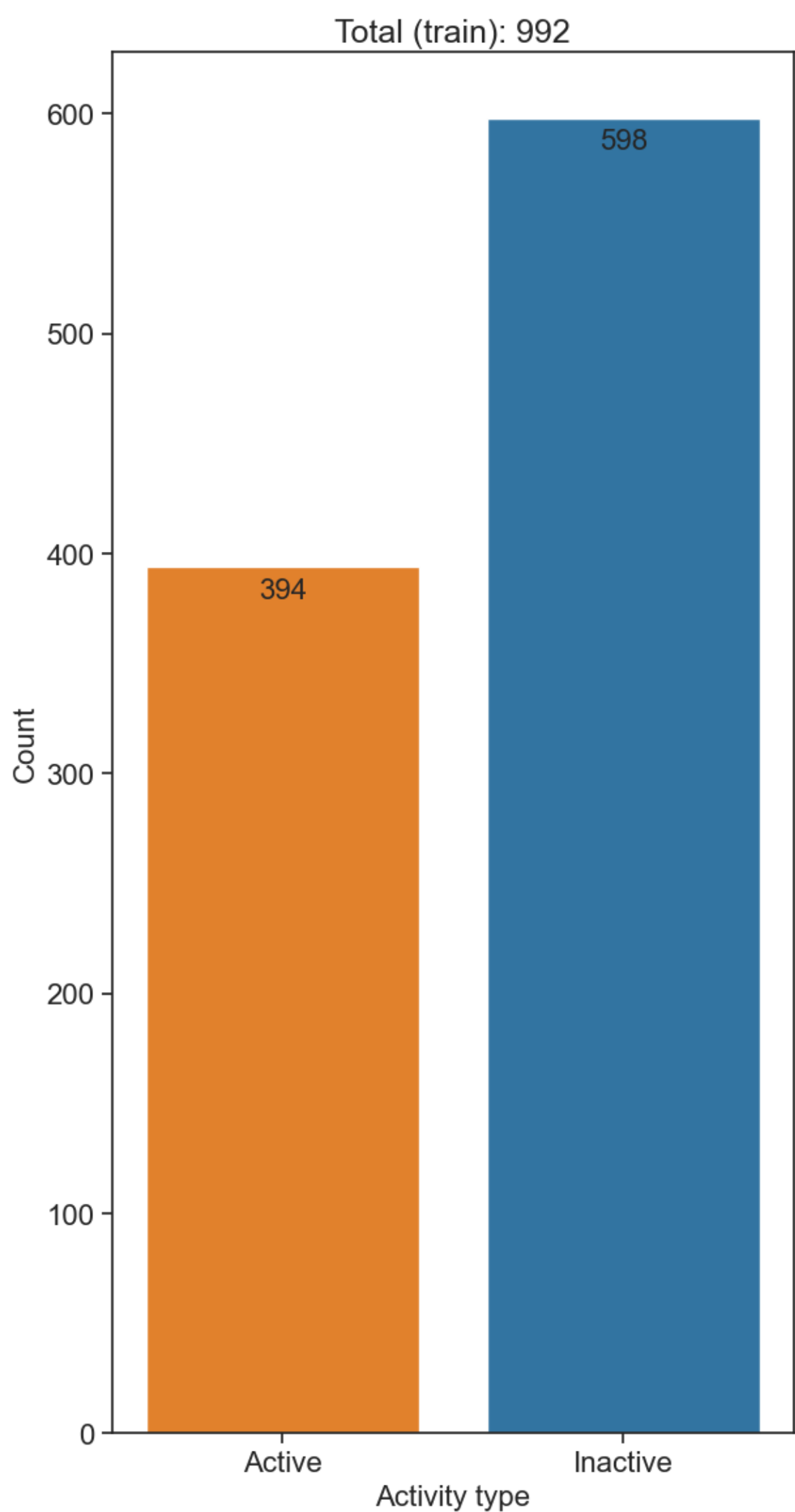


XGBoost Parameters		Value
alpha		4.6648
colsample_bytree		0.8727
gamma		0.5344
lambda		0.6546
learning_rate		0.0553
max_depth		9.0
min_child_weight		2.0
n_estimators		643.0
reg_alpha		0.9244
reg_lambda		0.2911
scale_pos_weight		1.0705
subsample		0.72

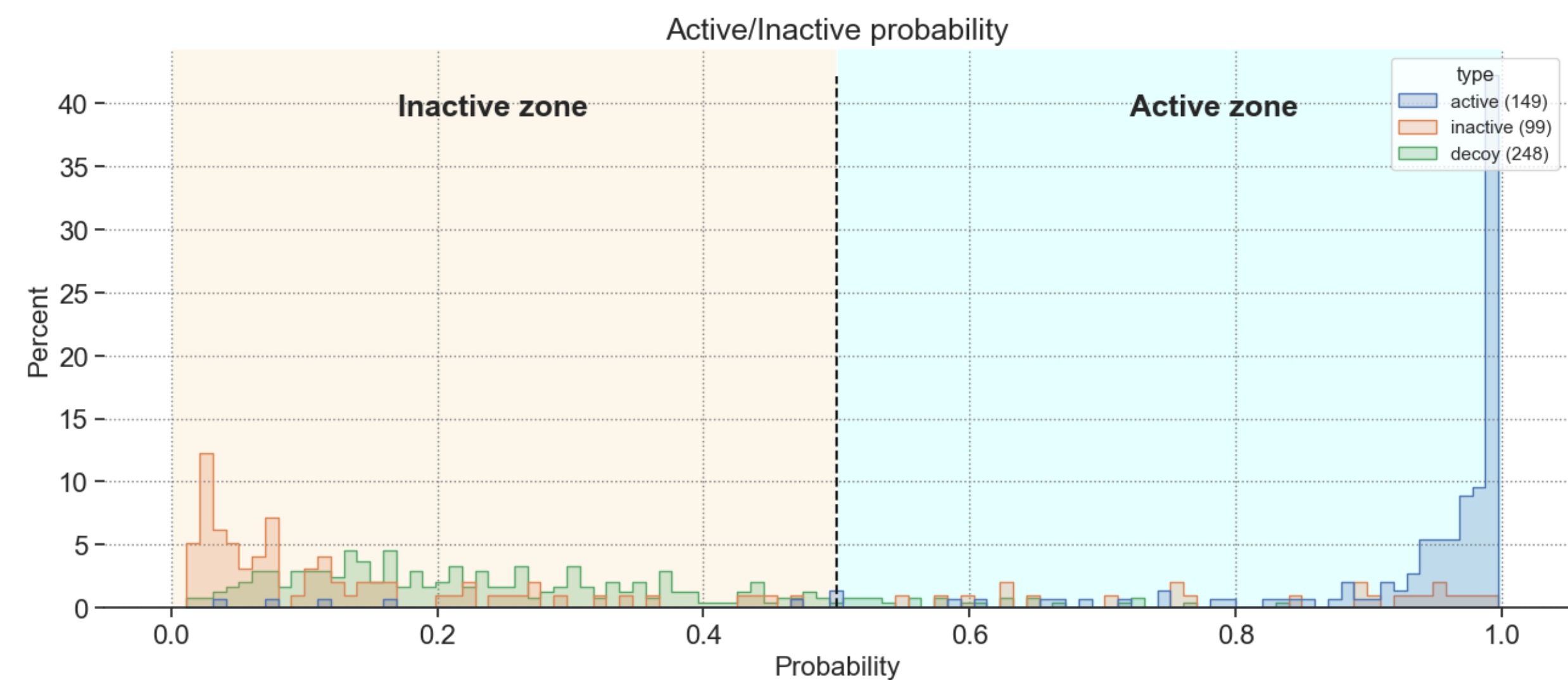
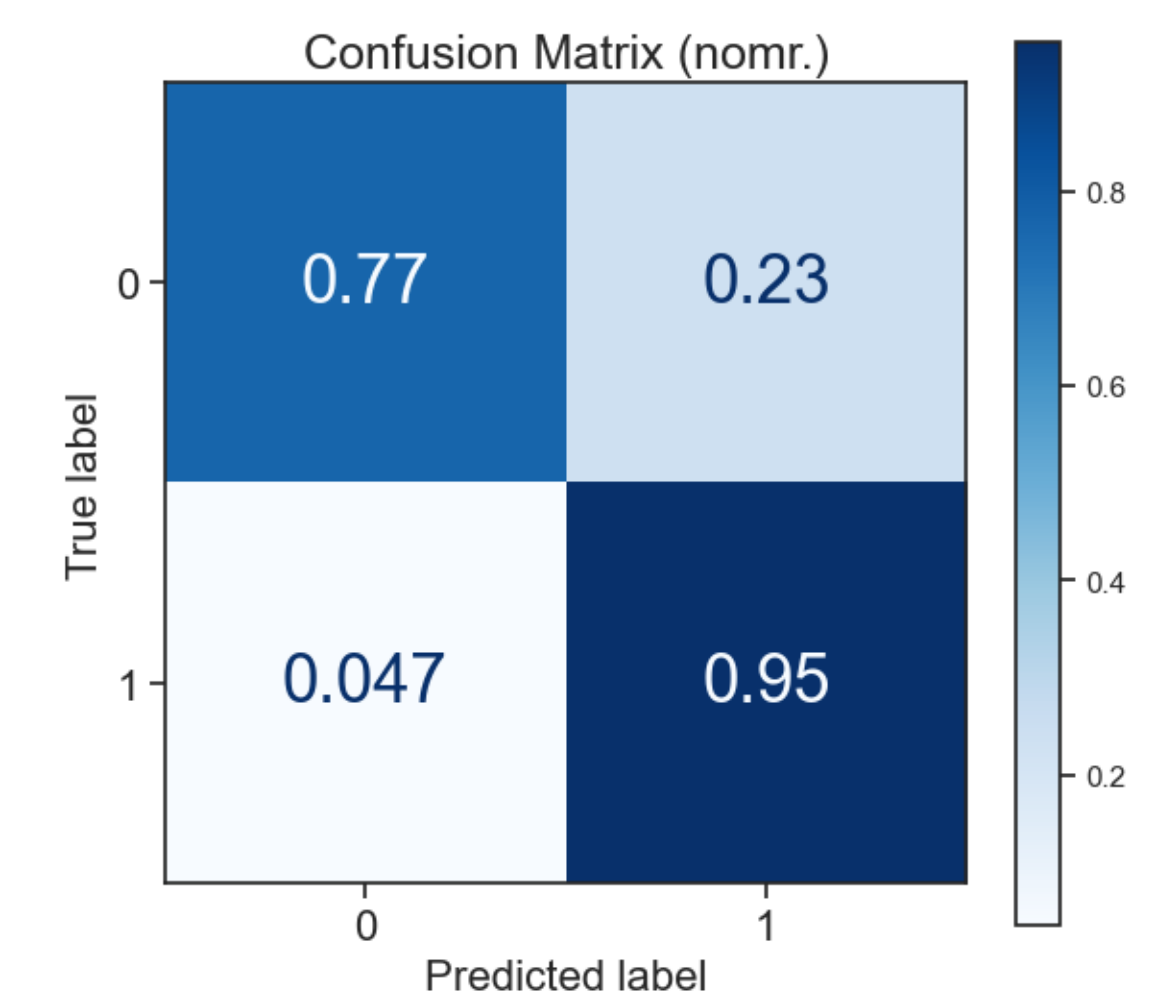
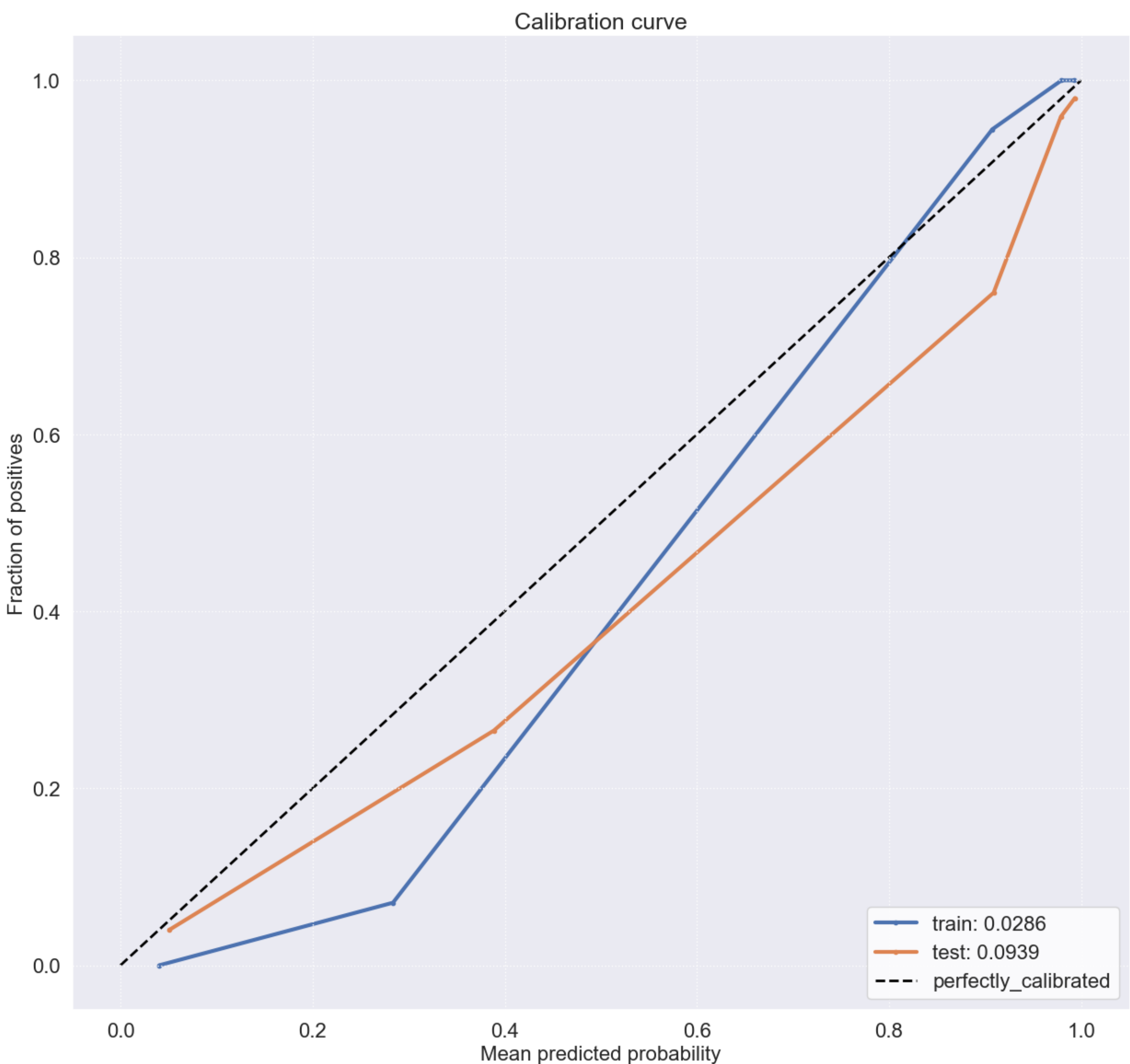
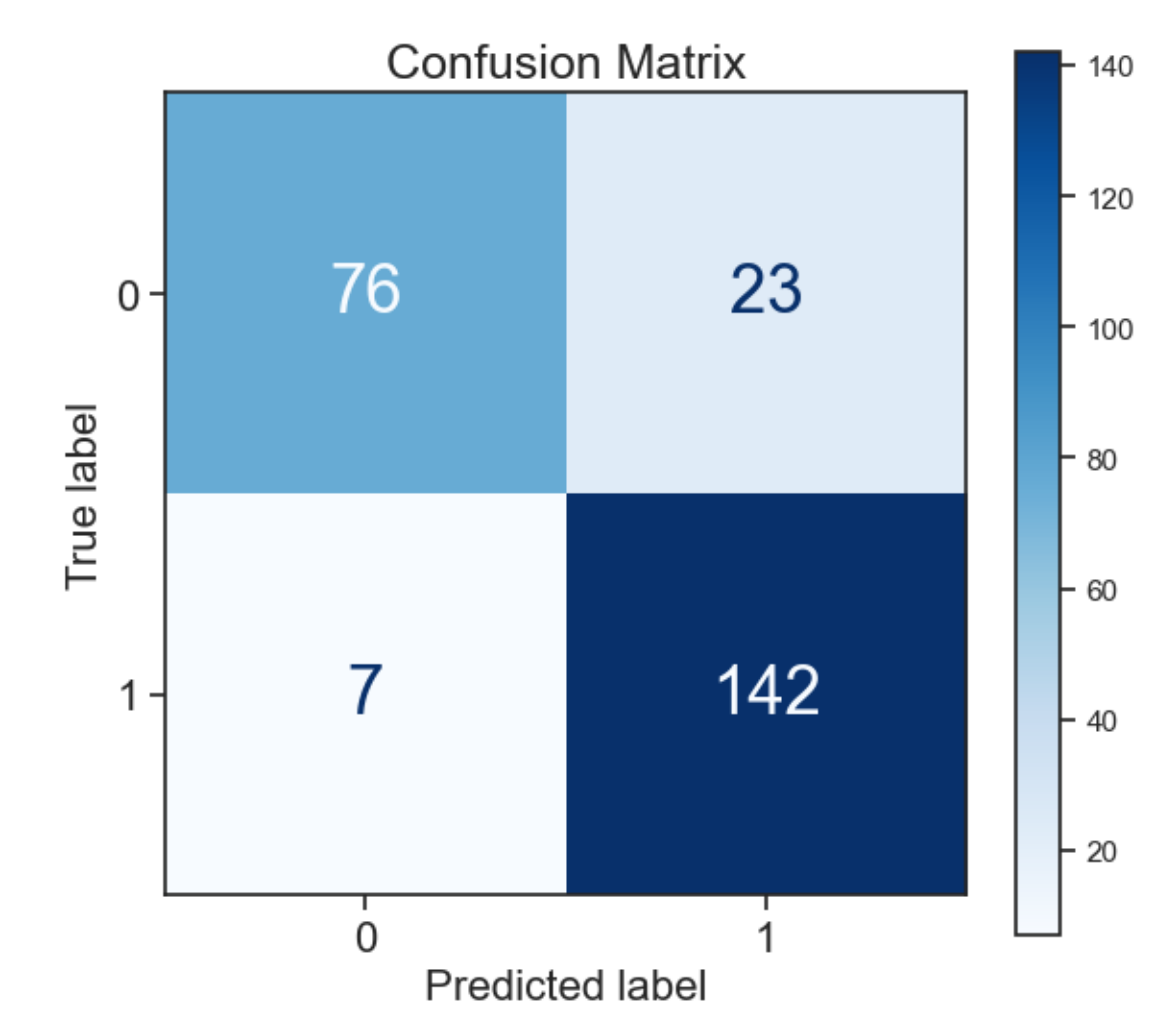


Metric	Train	Test
AUC	0.9963	0.9405
accuracy	0.9647	0.8911
balanced accuracy	0.9608	0.8806
recall_(sens)	0.9799	0.9329
specificity	0.9416	0.8283
precision	0.9622	0.891
f1_score	0.9646	0.8904

Protein: P35348 - metric: f1

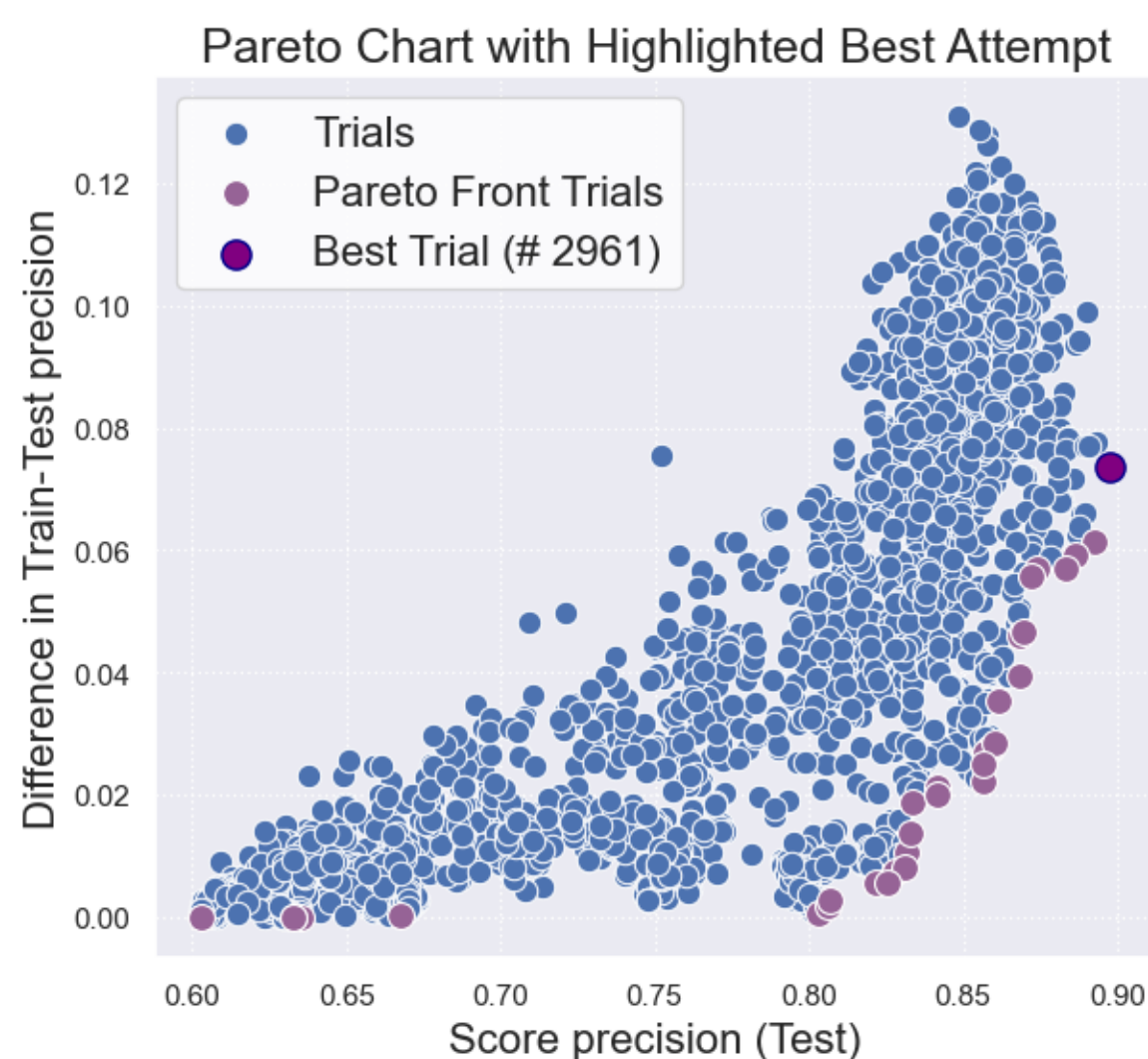
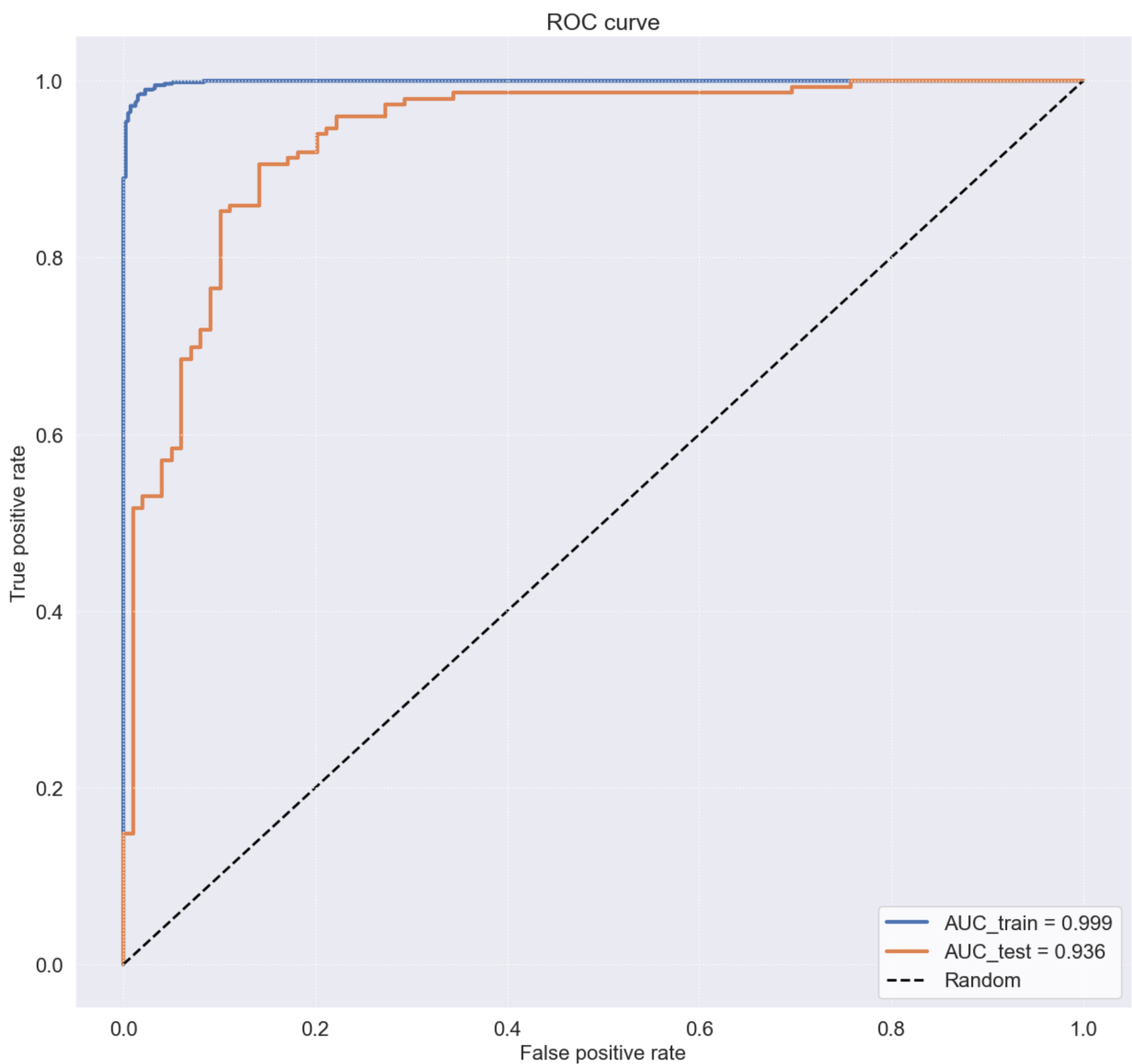
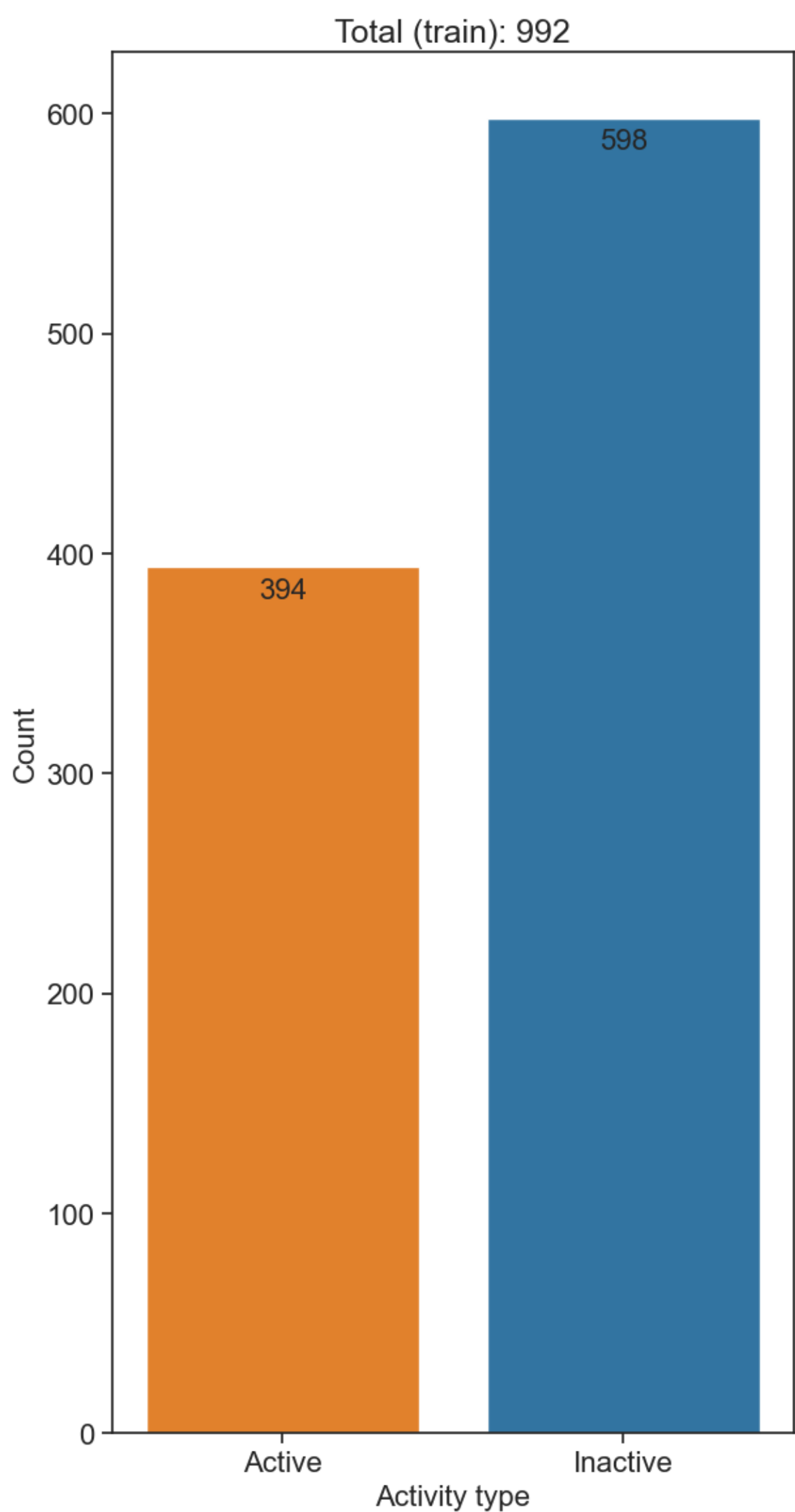


XGBoost Parameters	Value
alpha	4.367
colsample_bytree	0.5469
gamma	0.9849
lambda	3.2189
learning_rate	0.0137
max_depth	10.0
min_child_weight	1.0
n_estimators	505.0
reg_alpha	0.049
reg_lambda	0.3468
scale_pos_weight	2.5066
subsample	0.6759

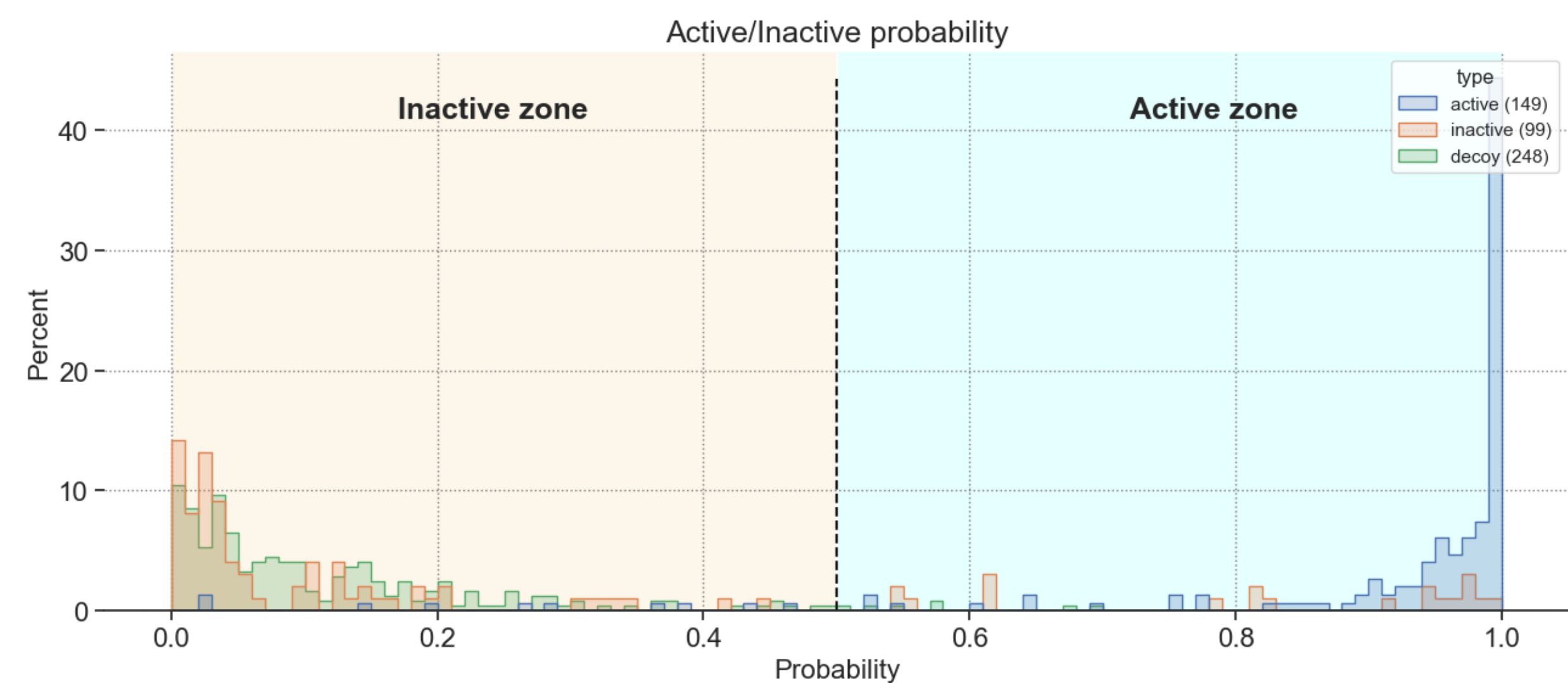
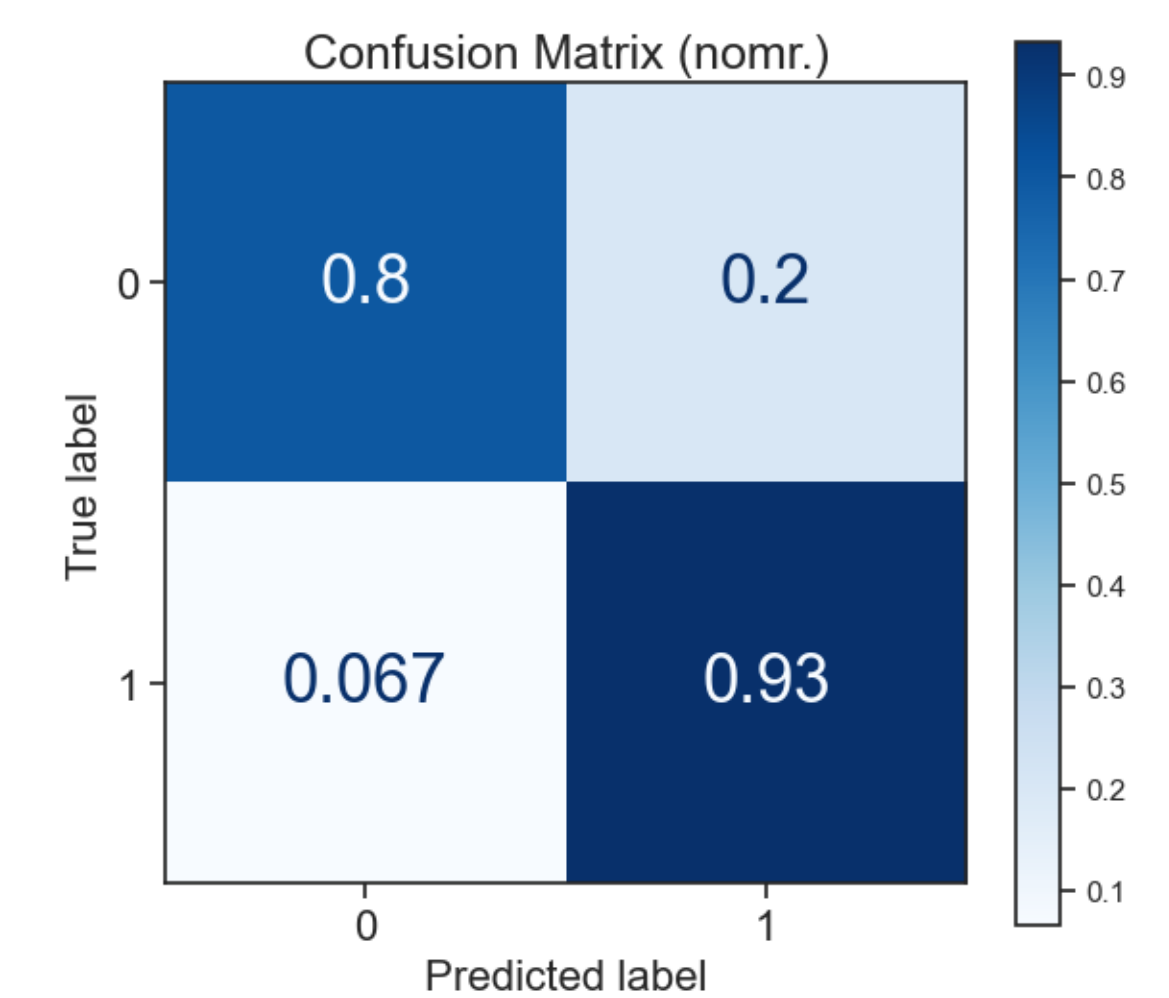
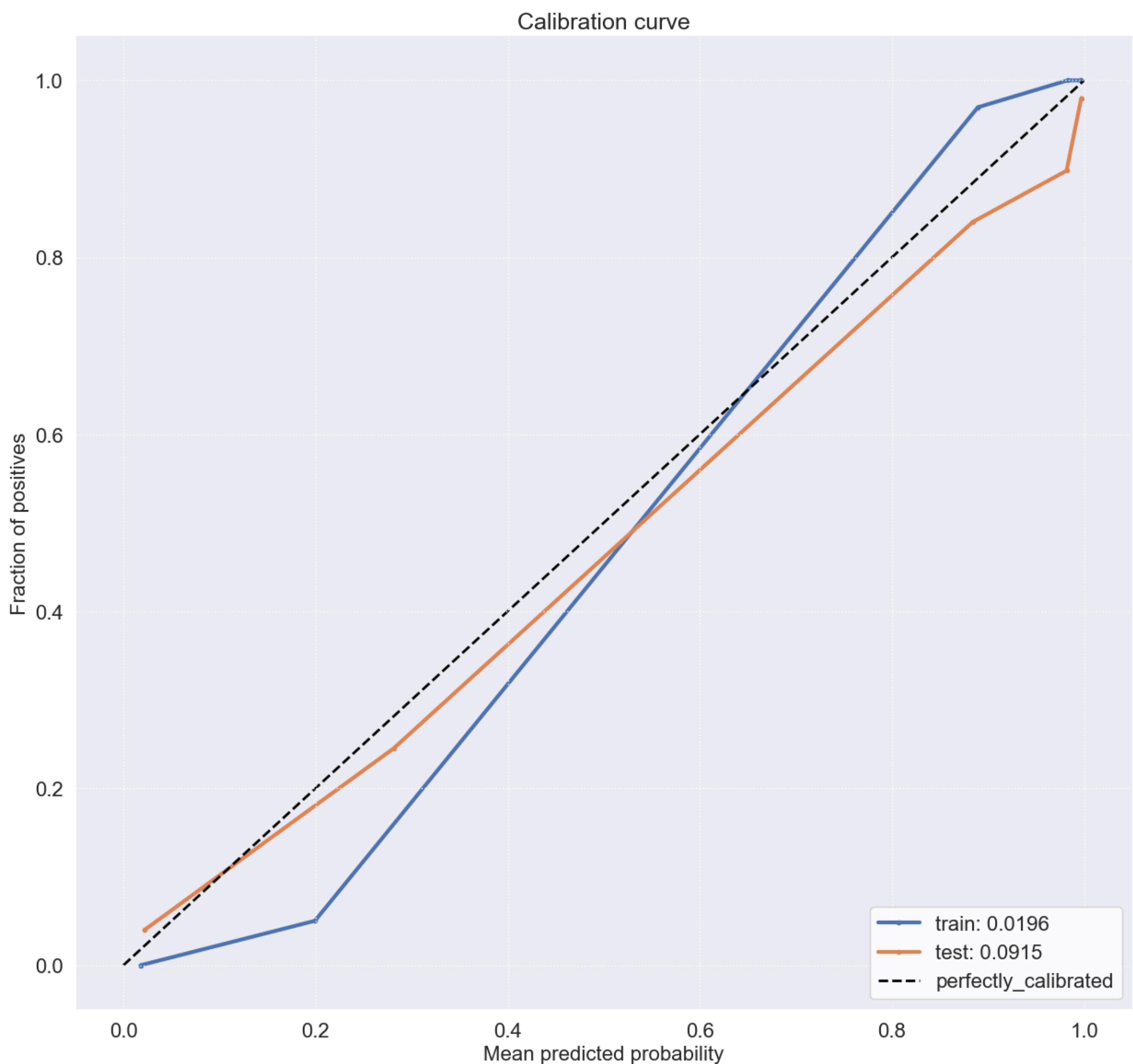
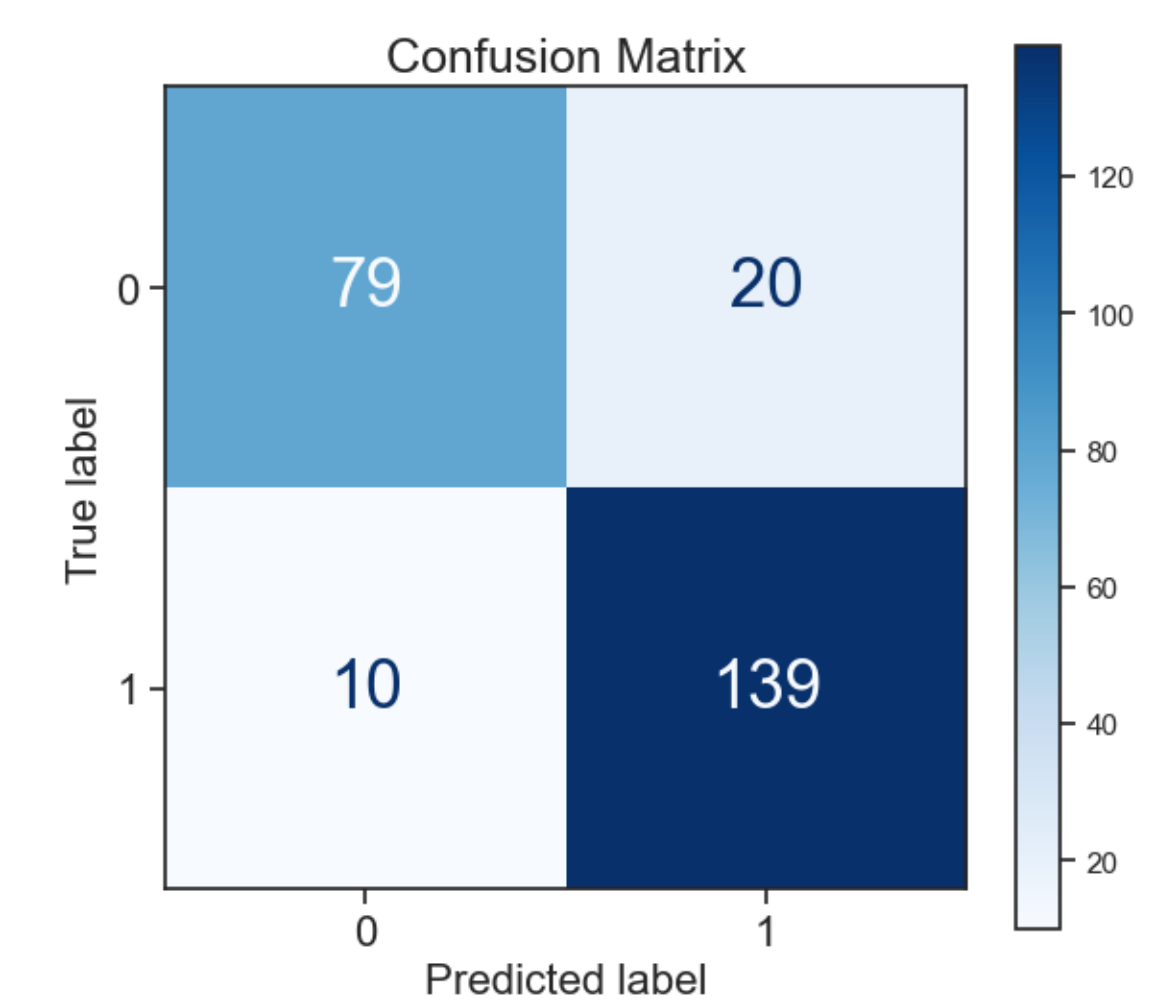


Metric	Train	Test
AUC	0.9982	0.9414
accuracy	0.9667	0.879
balanced accuracy	0.9581	0.8603
recall_(sens)	1.0	0.953
specificity	0.9162	0.7677
precision	0.9477	0.8606
f1_score	0.9665	0.8768

Protein: P35348 - metric: precision

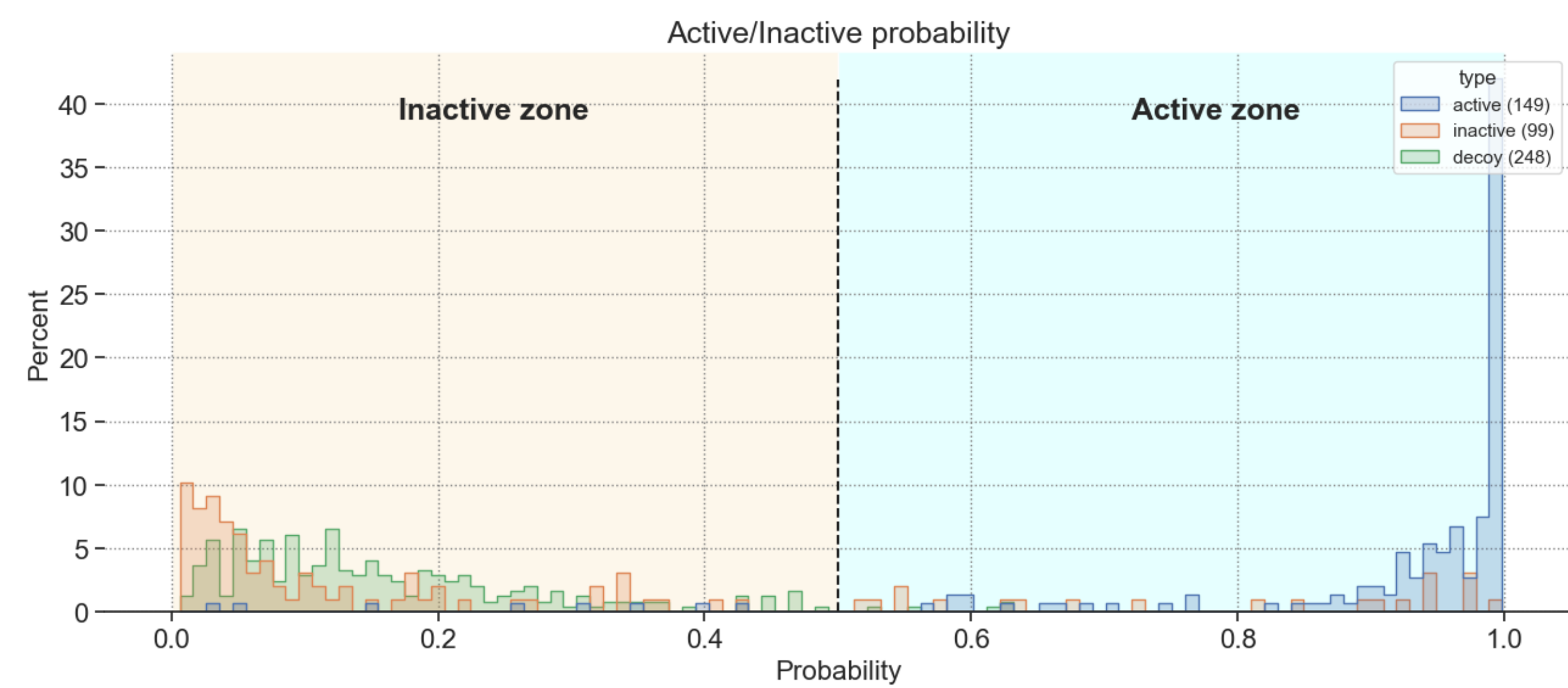
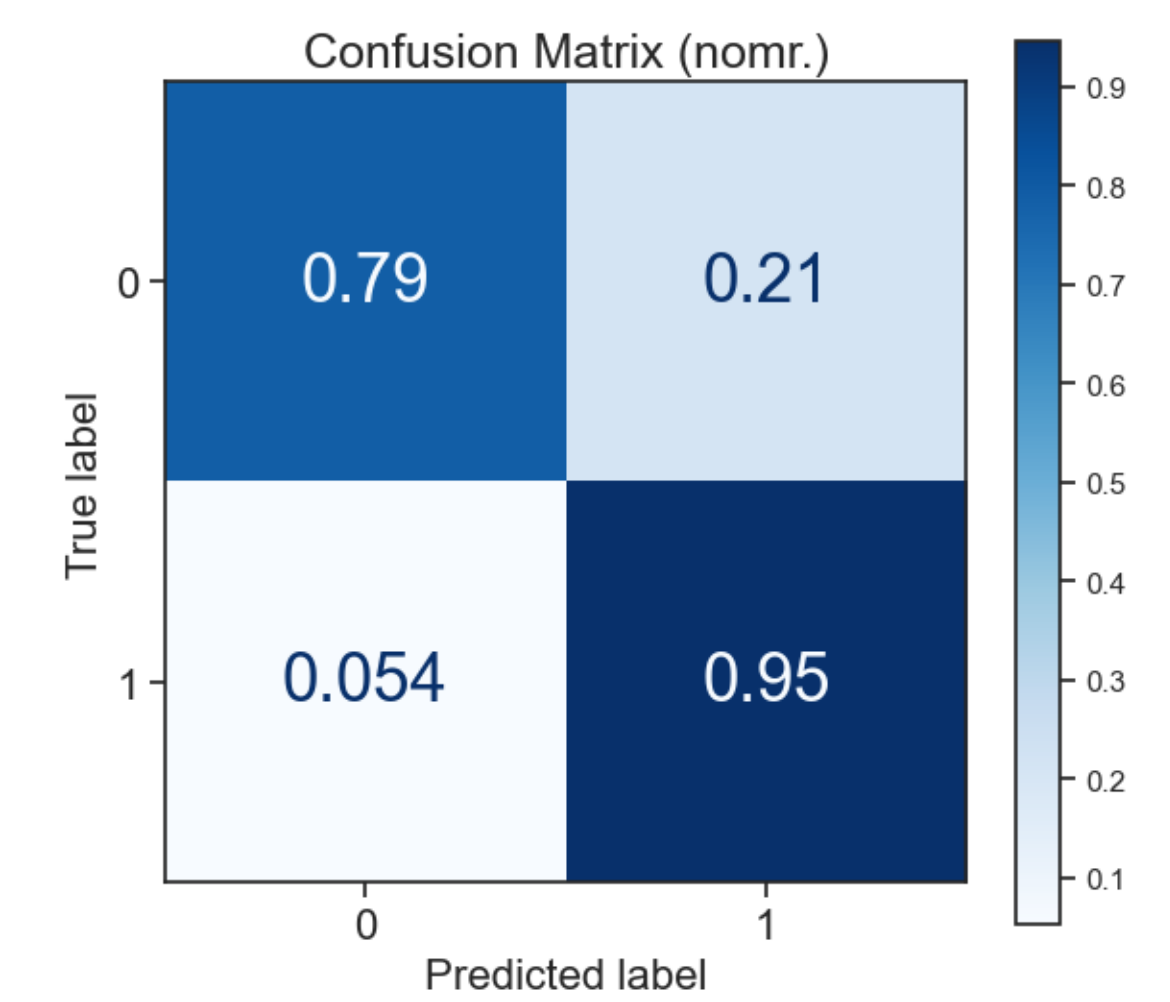
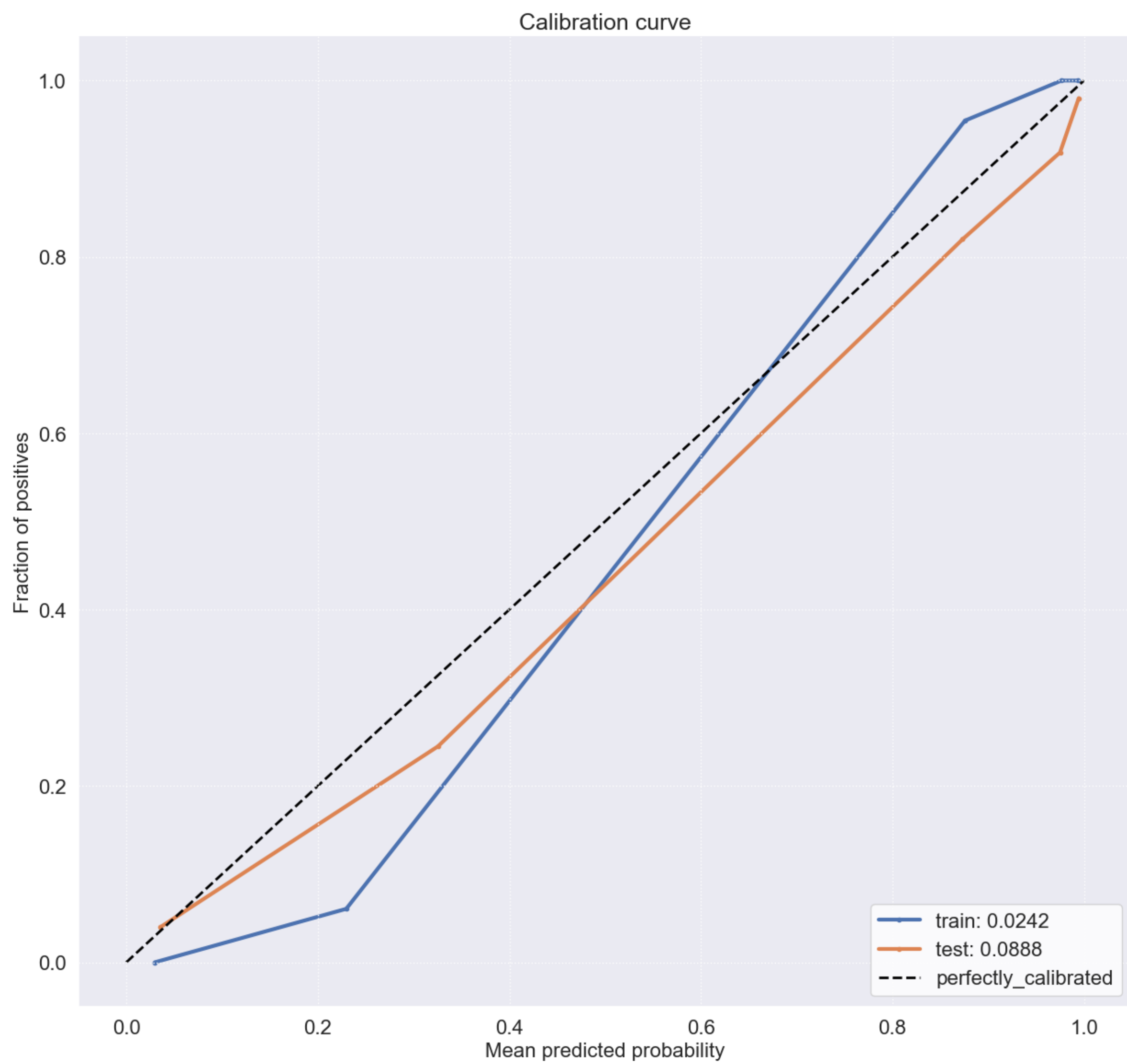
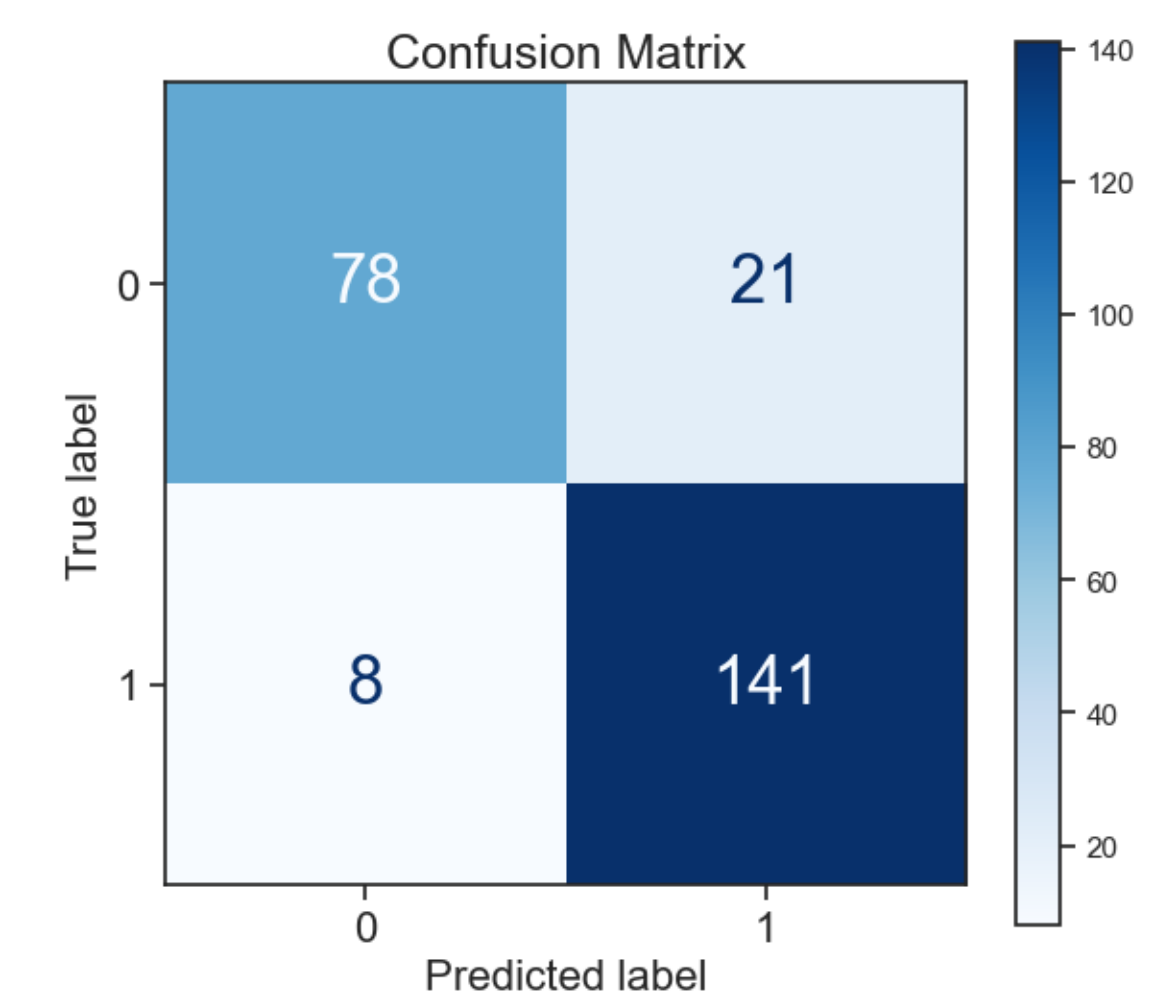
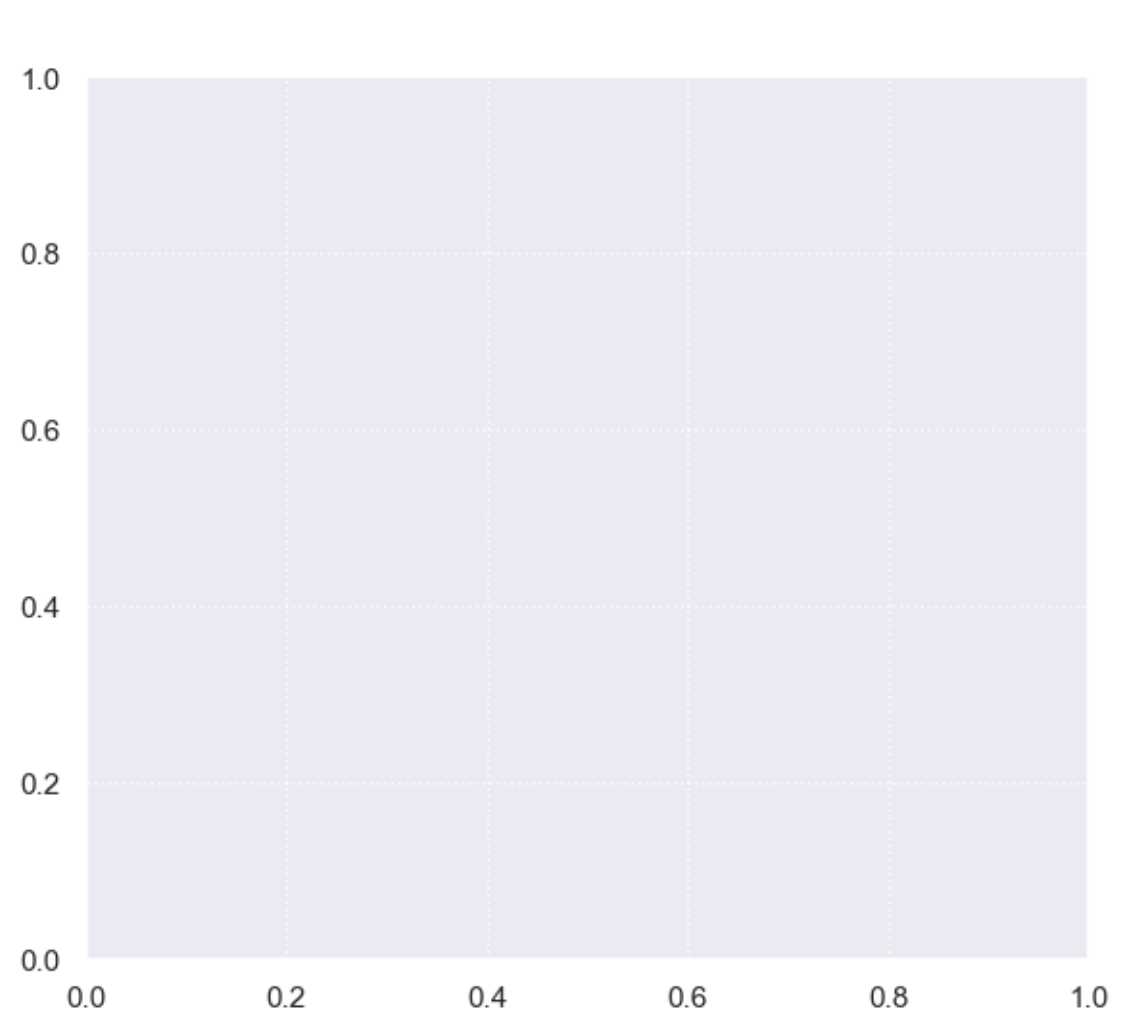
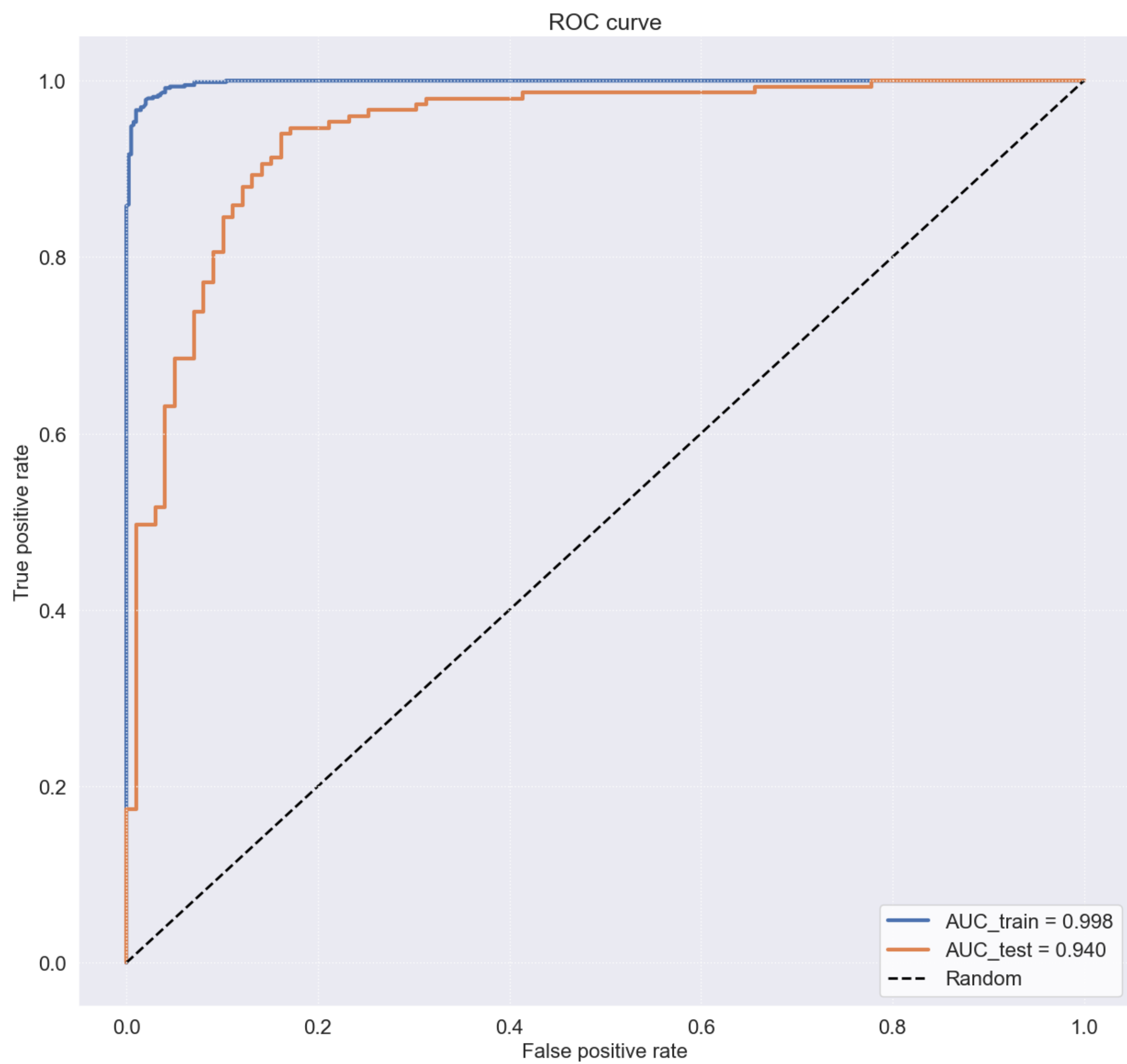
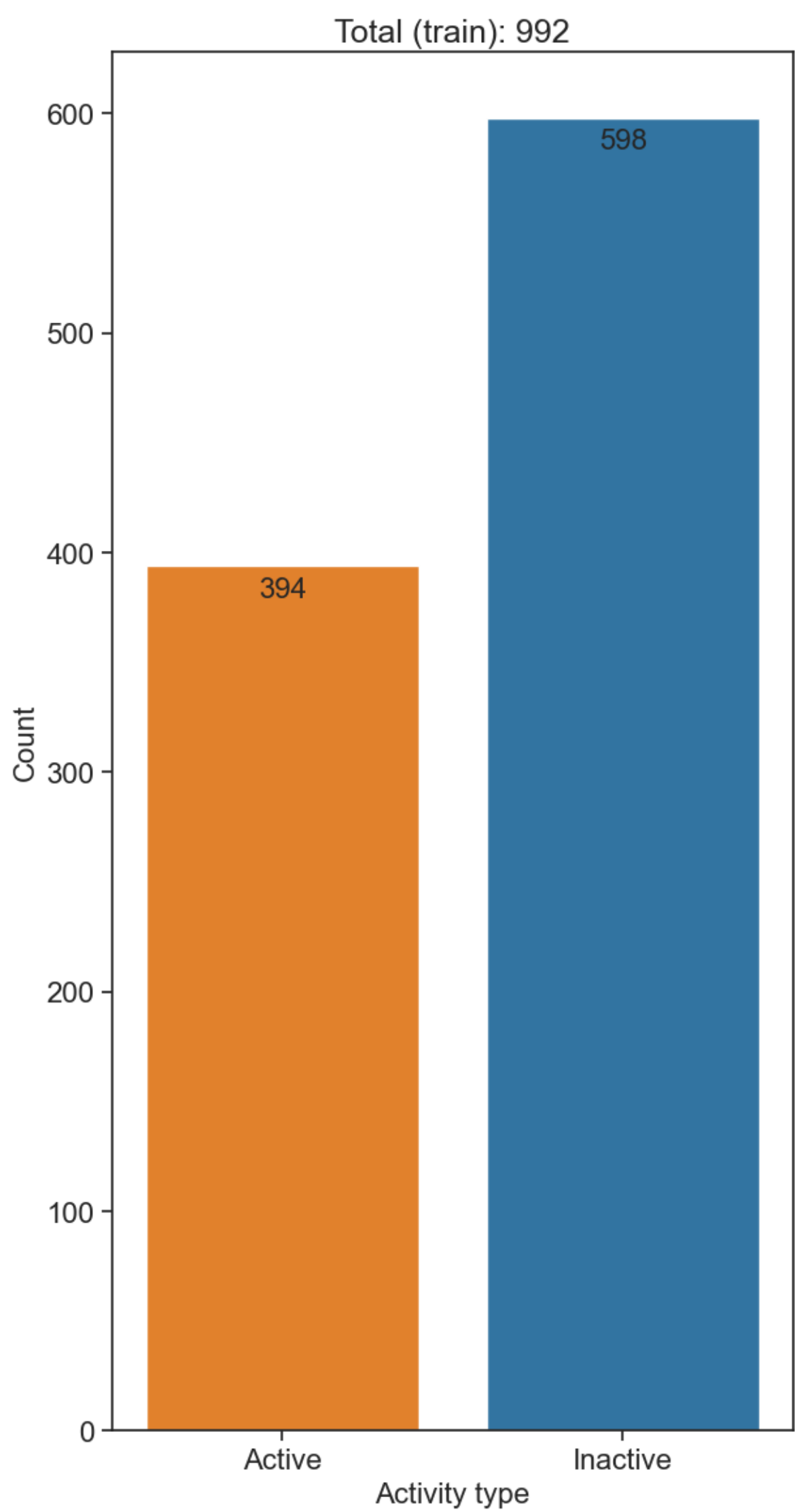


XGBoost Parameters	Value
alpha	2.304
colsample_bytree	0.7191
gamma	0.1072
lambda	0.9881
learning_rate	0.0477
max_depth	8.0
min_child_weight	2.0
n_estimators	410.0
reg_alpha	0.4066
reg_lambda	0.5145
scale_pos_weight	1.4876
subsample	0.6372



Metric	Train	Test
AUC	0.999	0.936
accuracy	0.9788	0.879
balanced accuracy	0.9738	0.8654
recall_(sens)	0.9983	0.9329
specificity	0.9492	0.798
precision	0.9676	0.8742
f1_score	0.9787	0.8778

Protein: P35348 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9983	0.9399
accuracy	0.9718	0.8831
balanced accuracy	0.9658	0.8671
recall_(sens)	0.995	0.9463
specificity	0.9365	0.7879
precision	0.9597	0.8704
f1_score	0.9716	0.8814