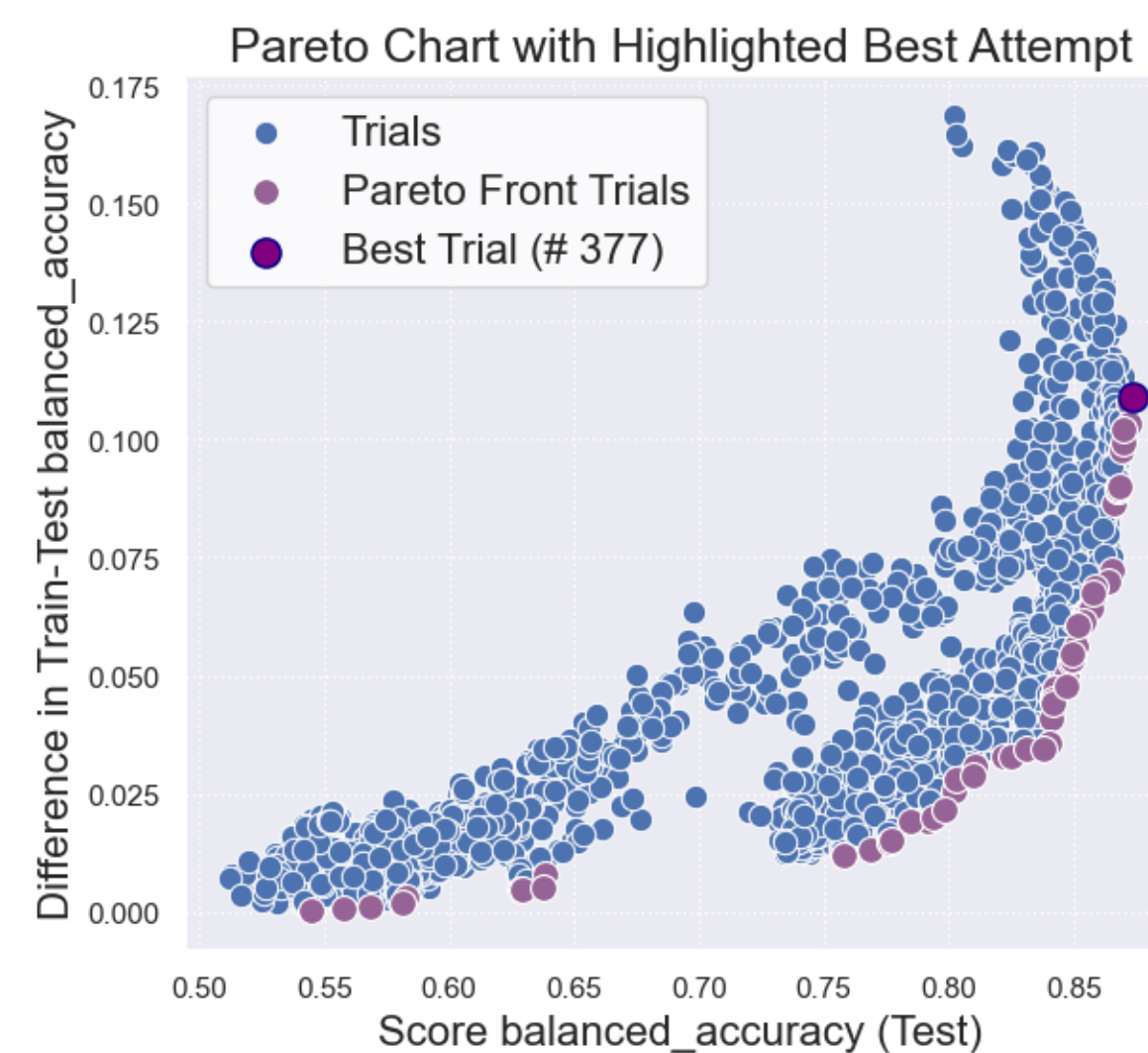
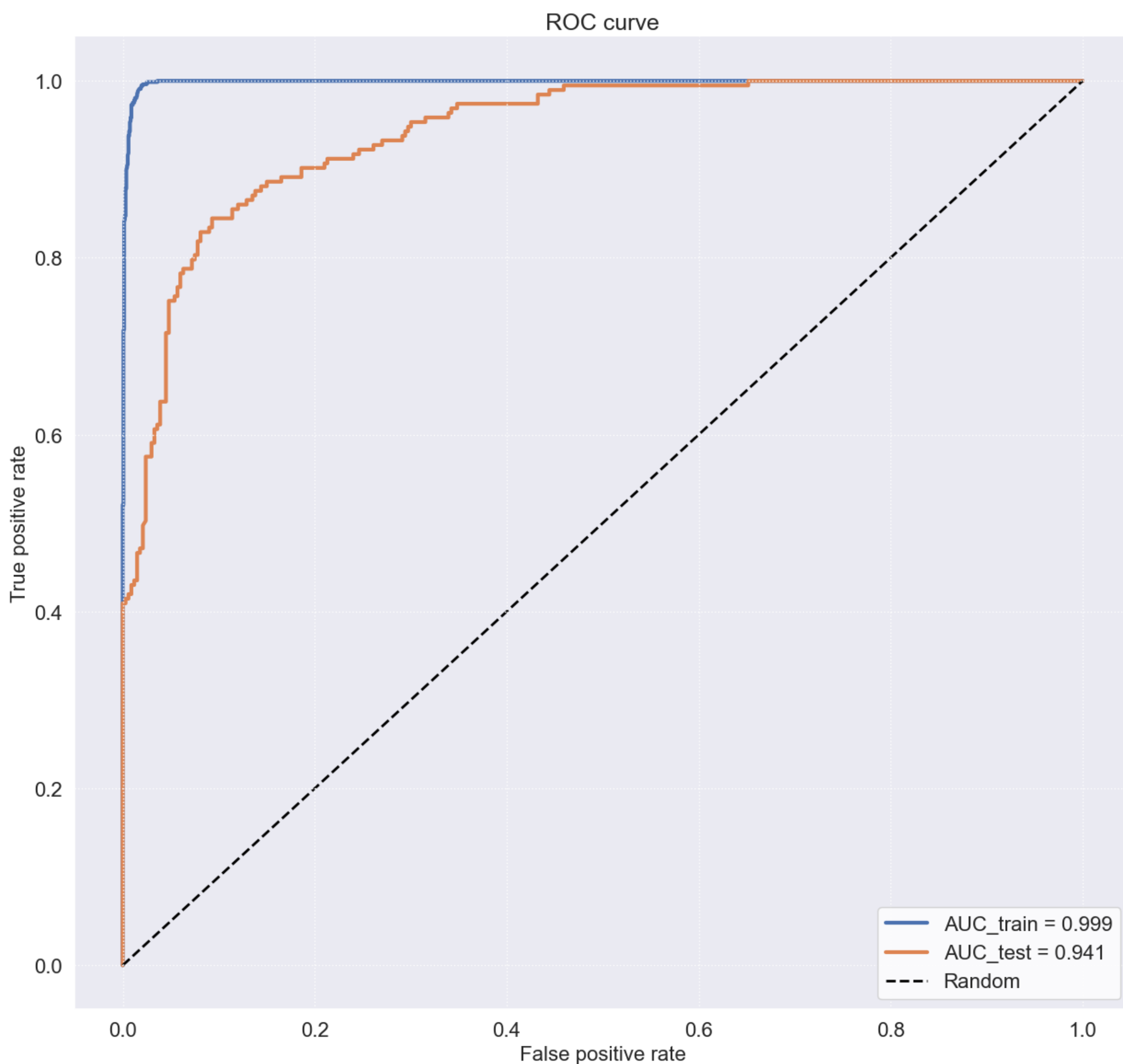
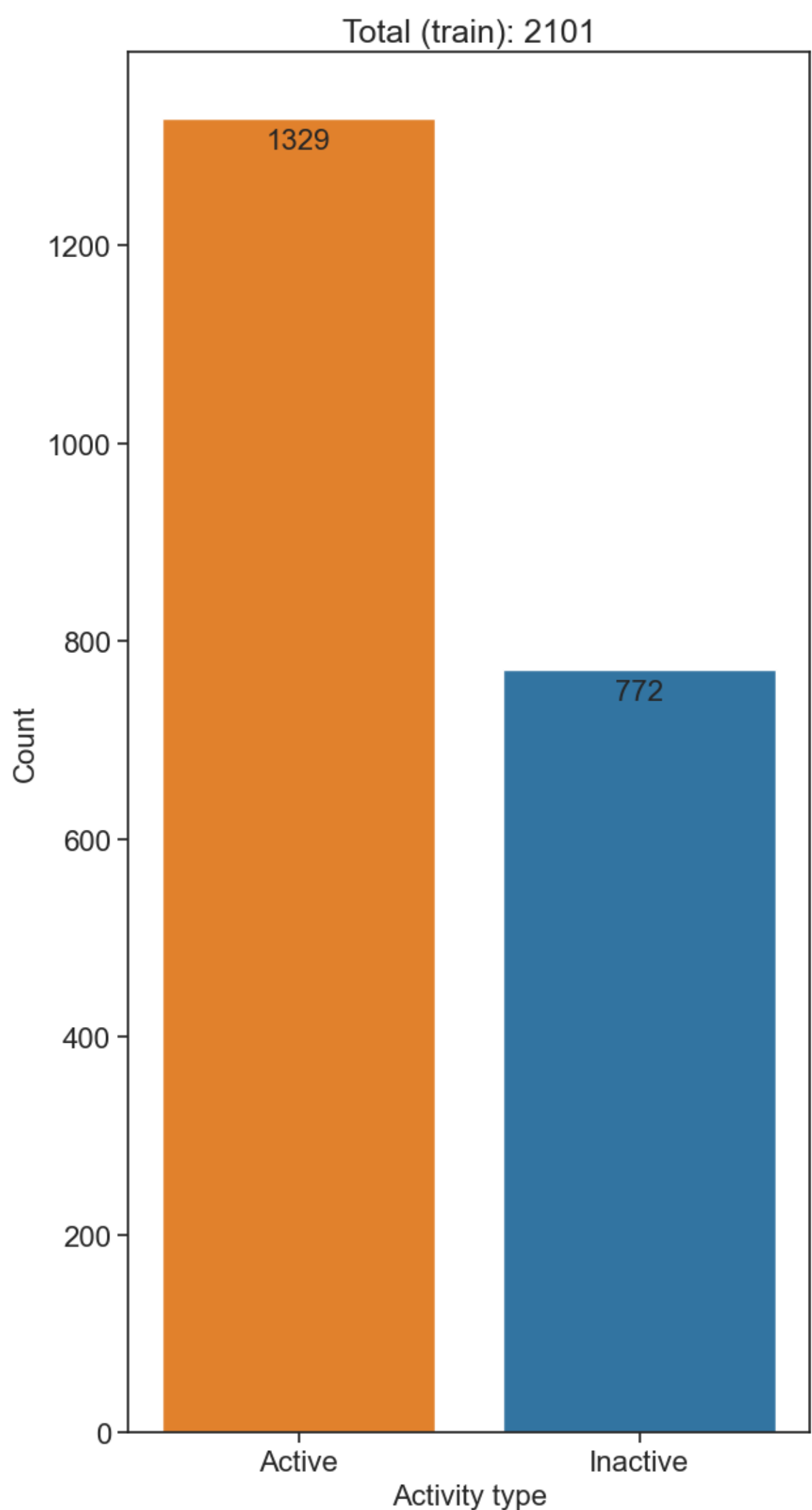
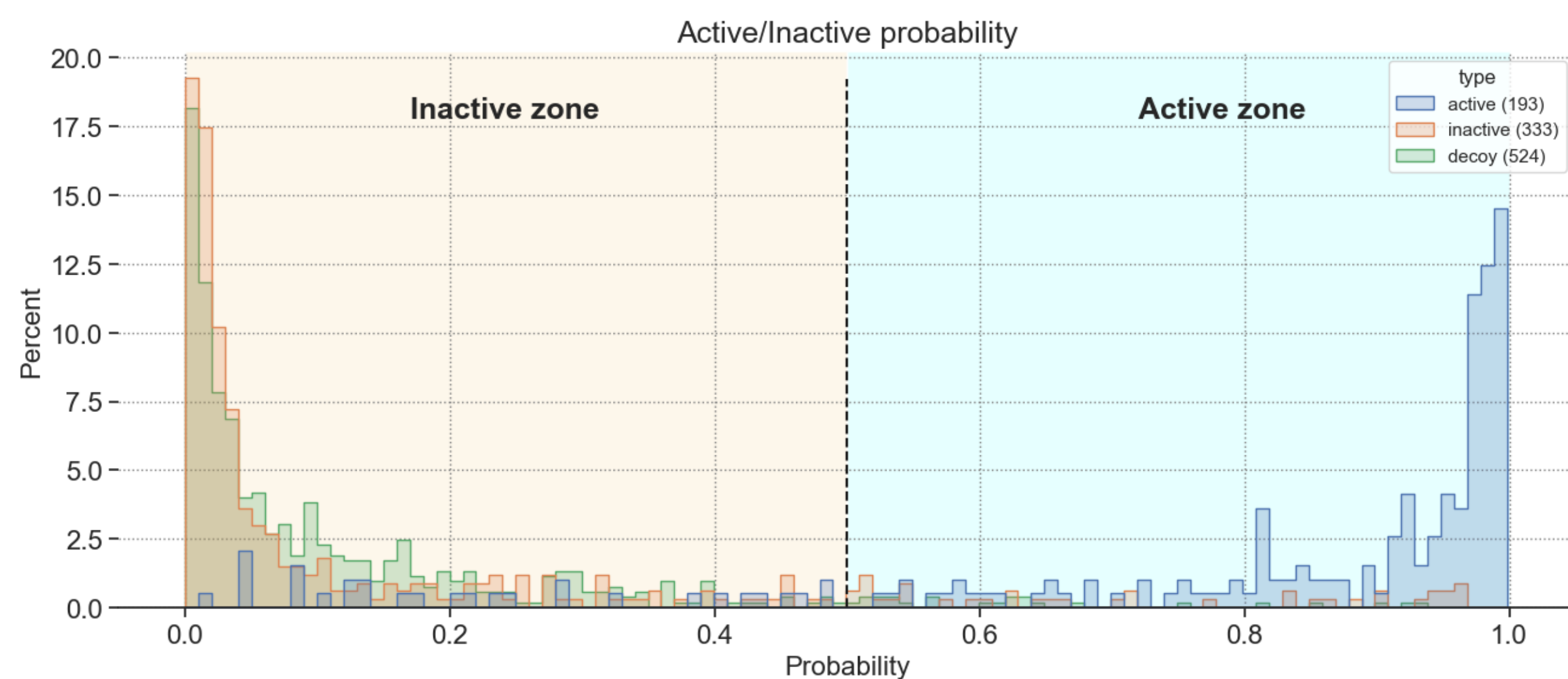
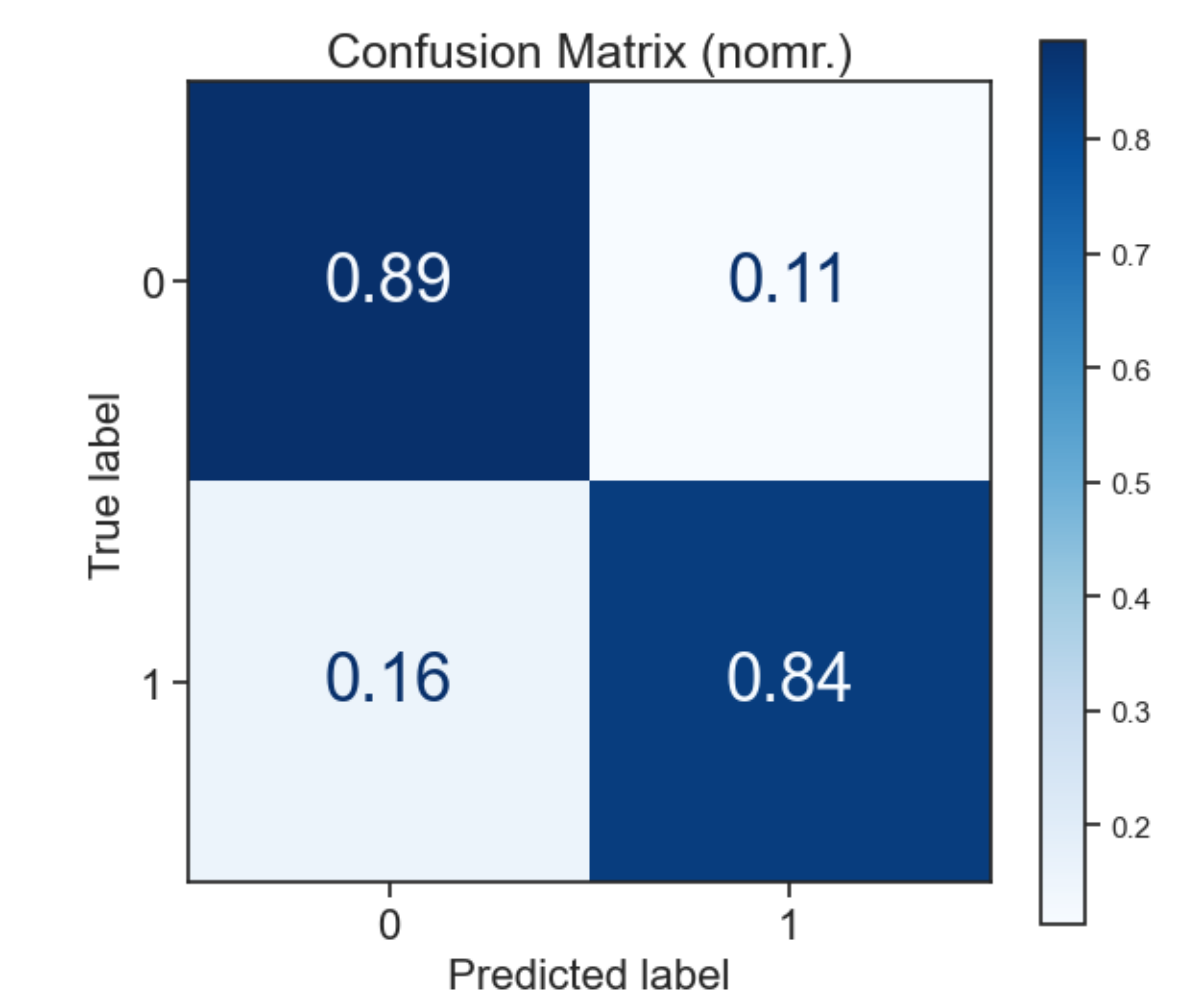
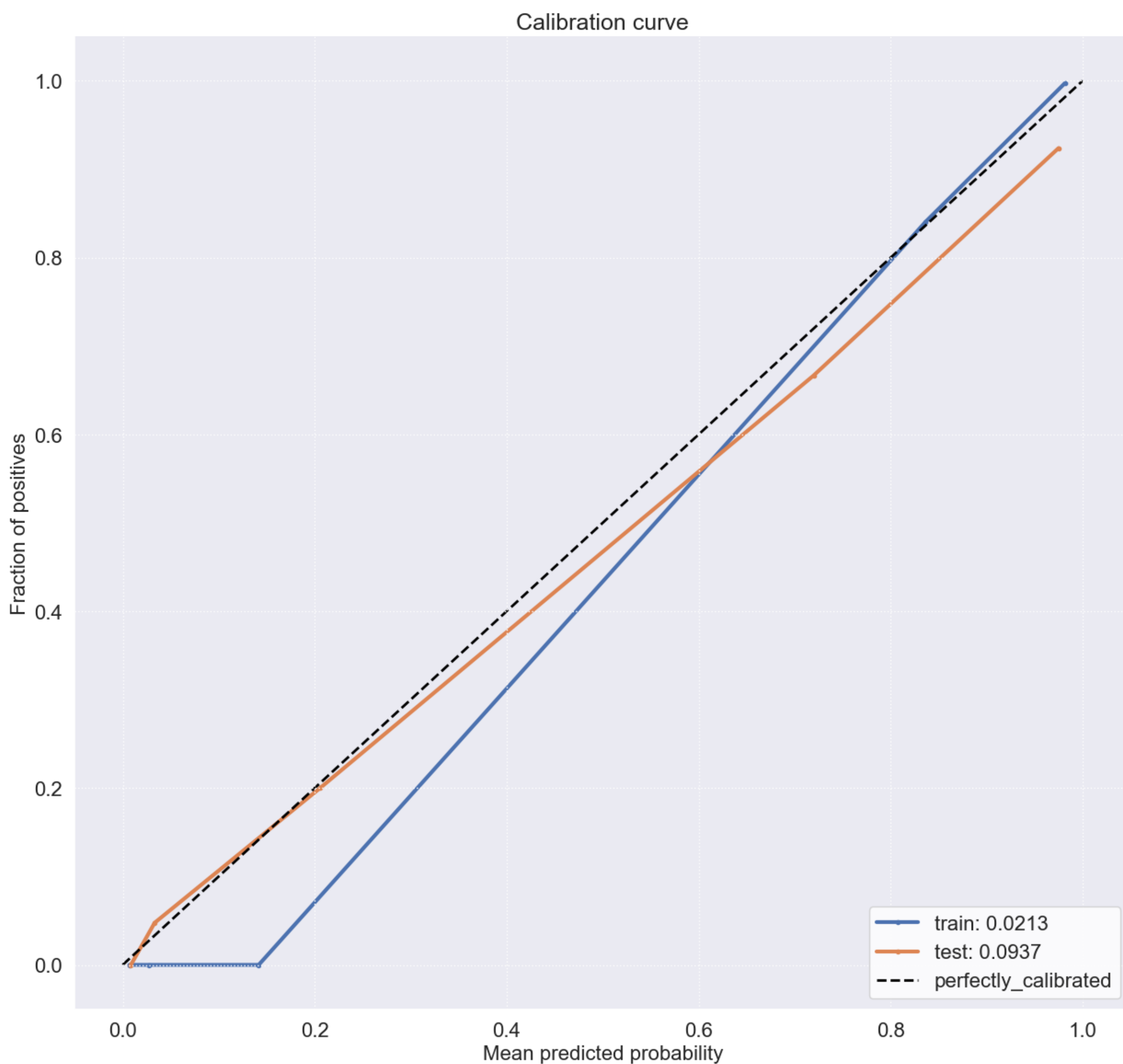
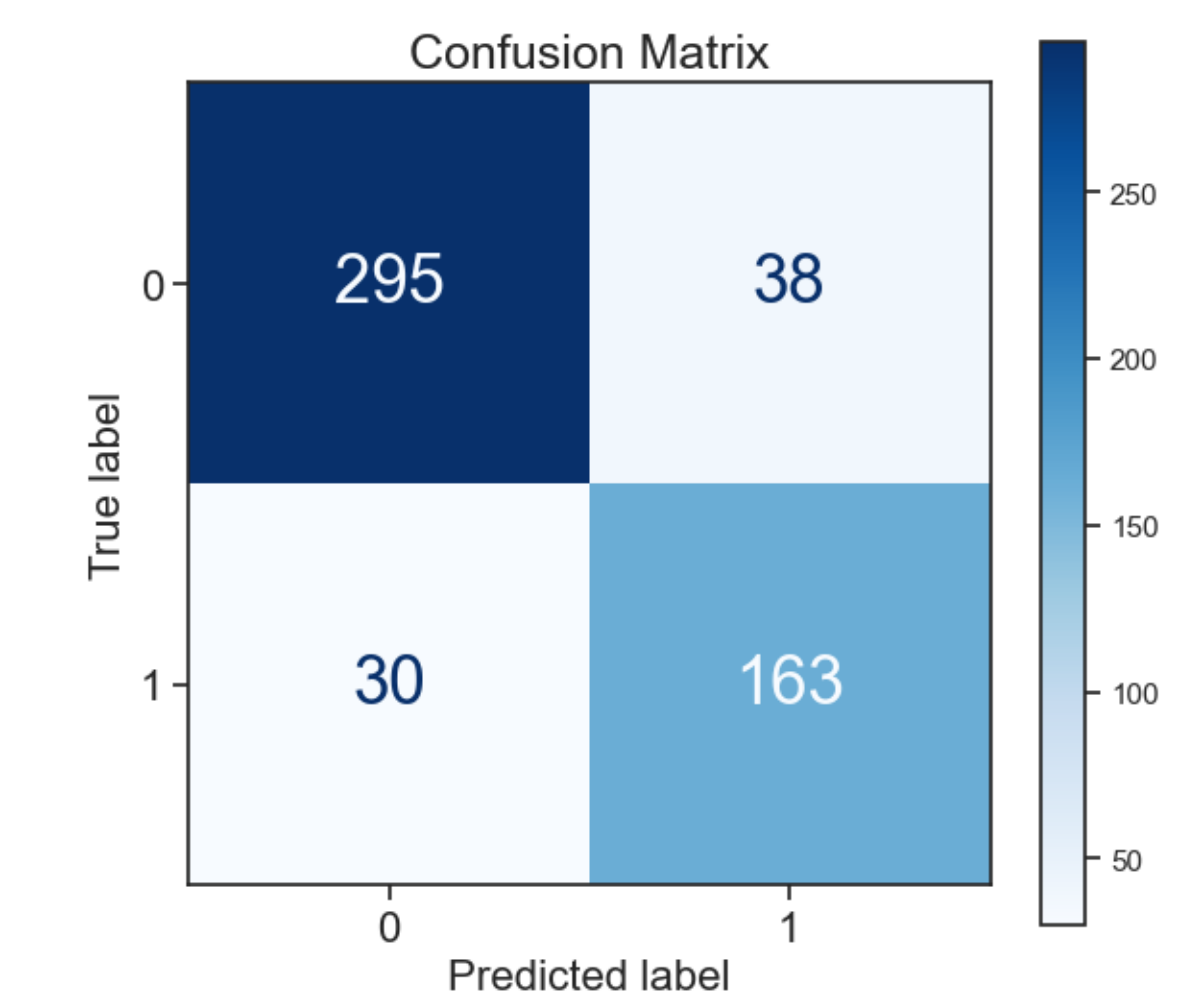


Protein: P35354 - metric: balanced\_accuracy



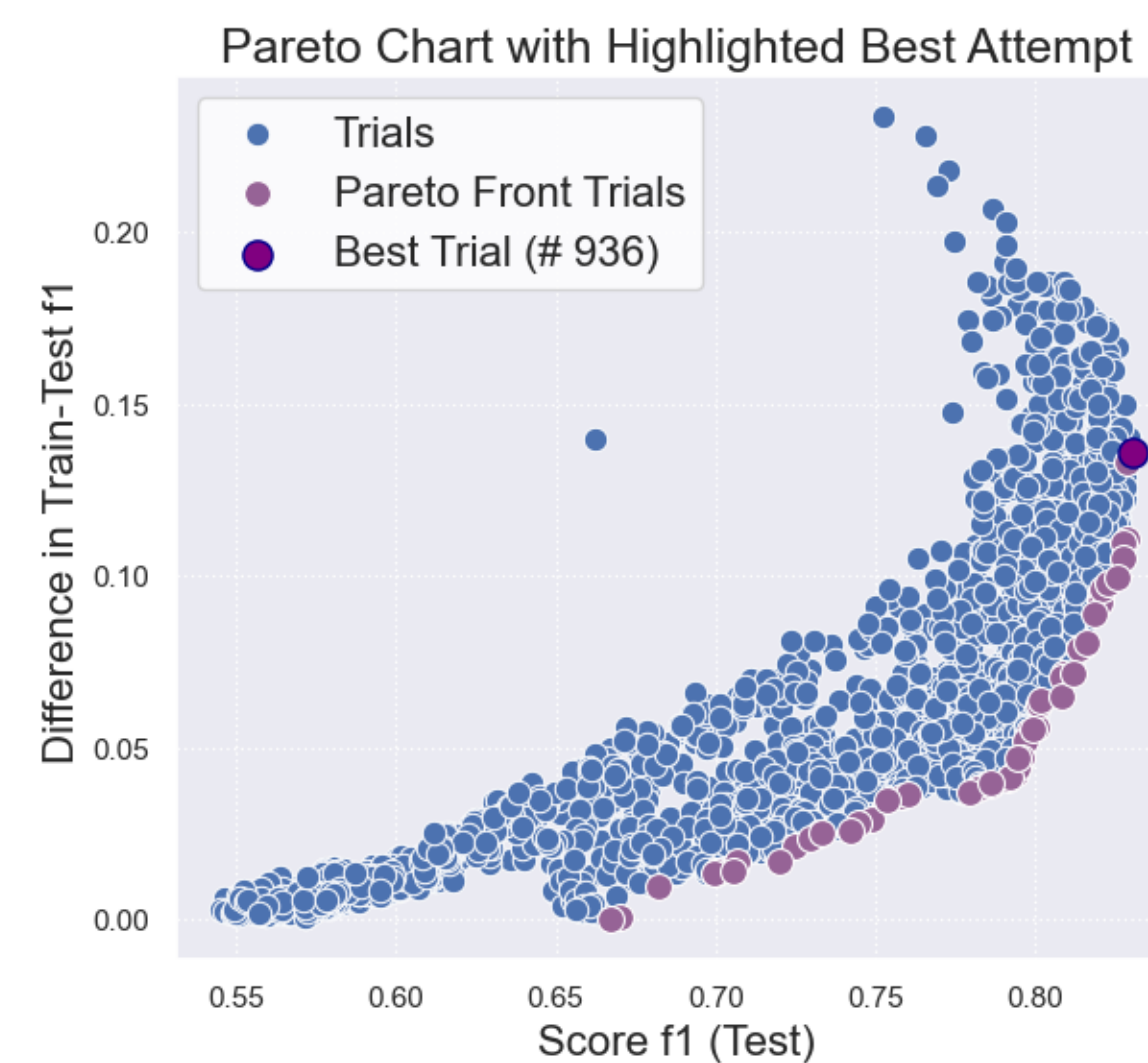
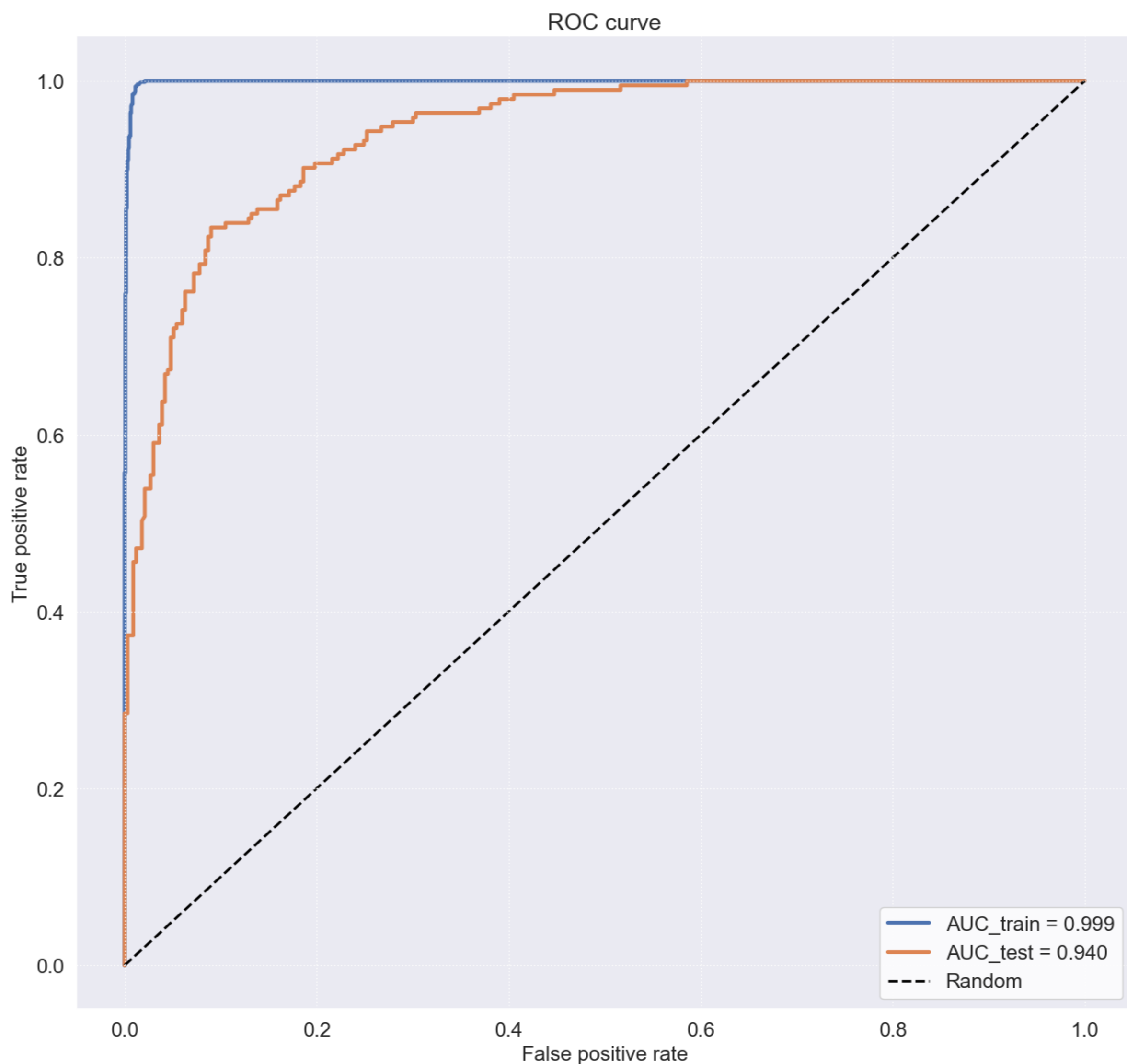
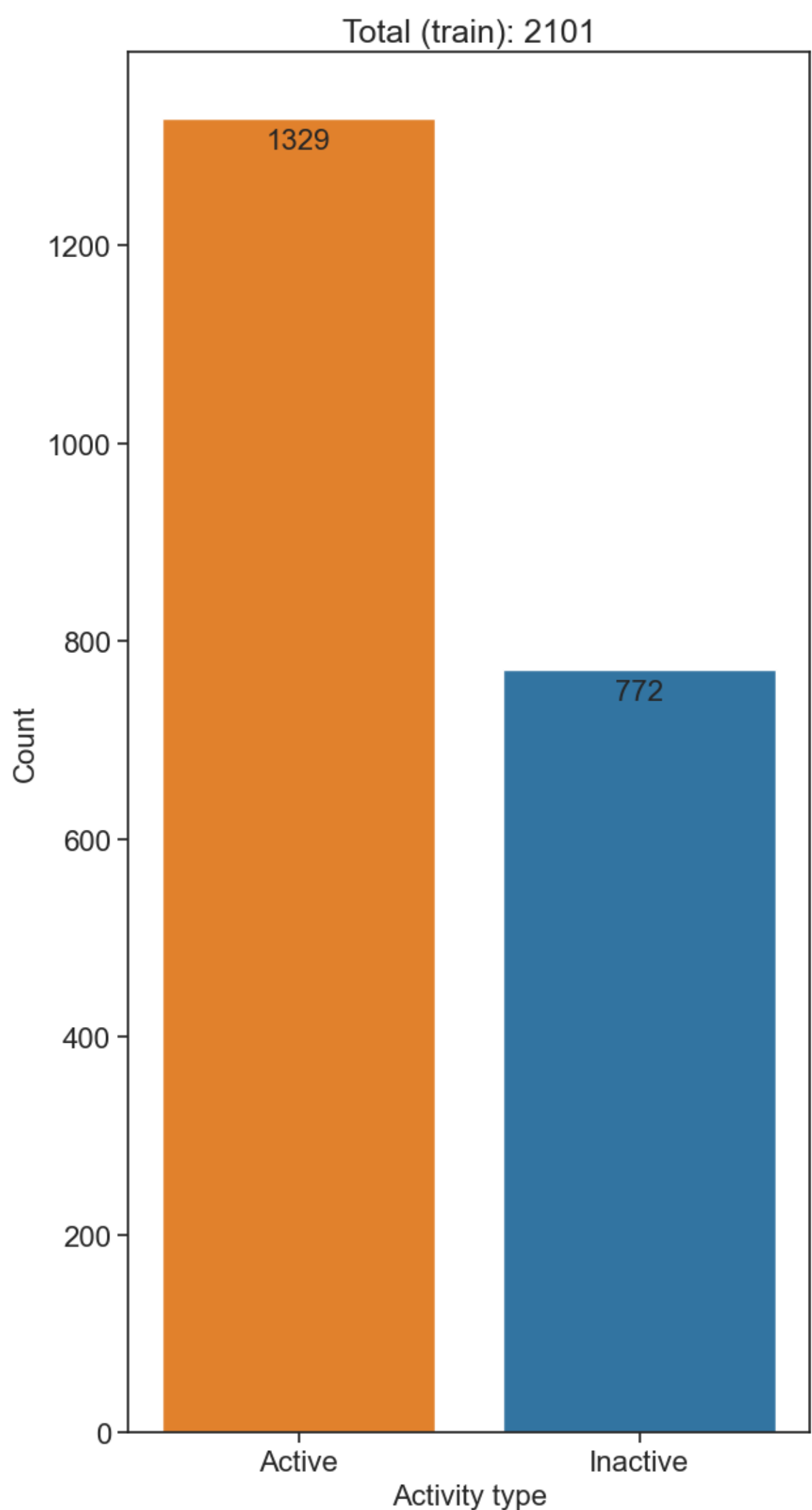
XGBoost Parameters	Value
alpha	1.5315
colsample_bytree	0.5726
gamma	0.6383
lambda	3.3615
learning_rate	0.1886
max_depth	9.0
min_child_weight	1.0
n_estimators	961.0
reg_alpha	0.6279
reg_lambda	0.4368
scale_pos_weight	2.3431
subsample	0.864



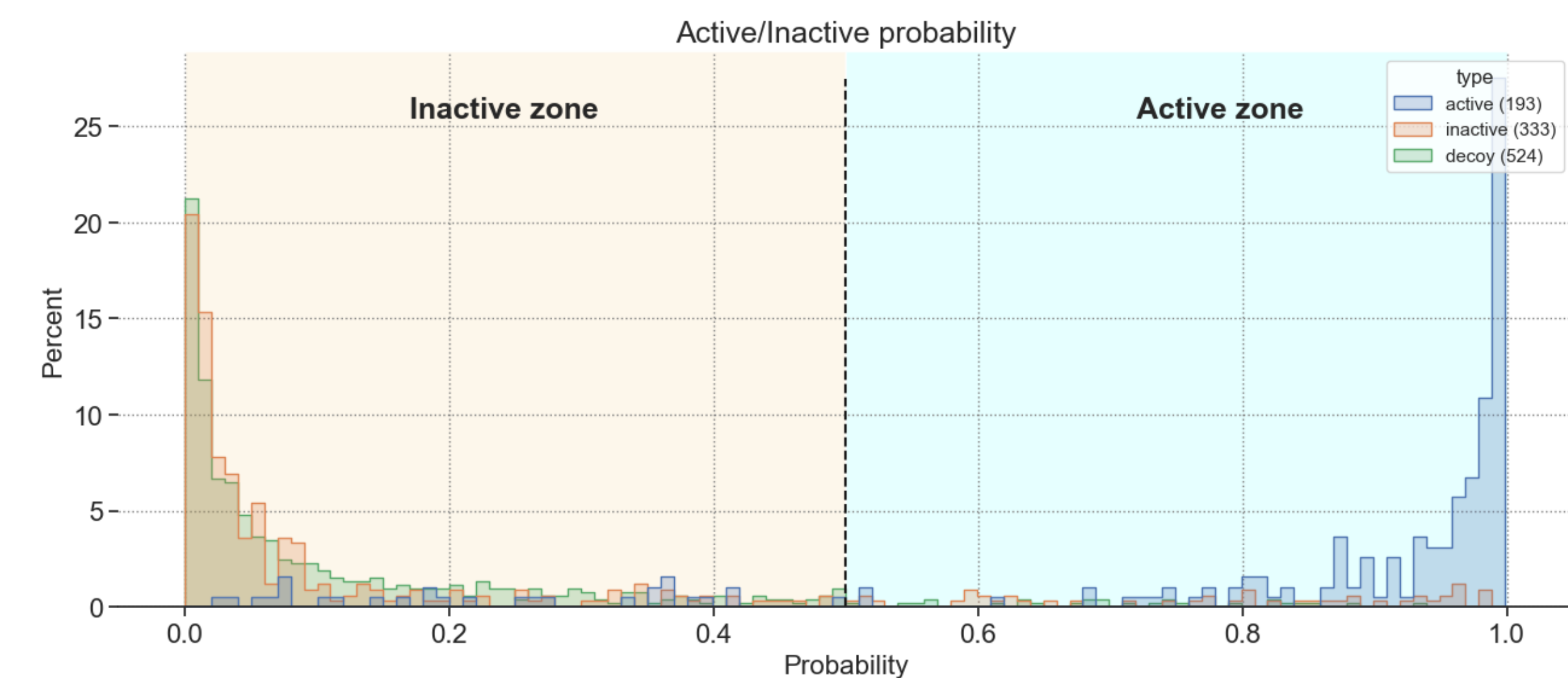
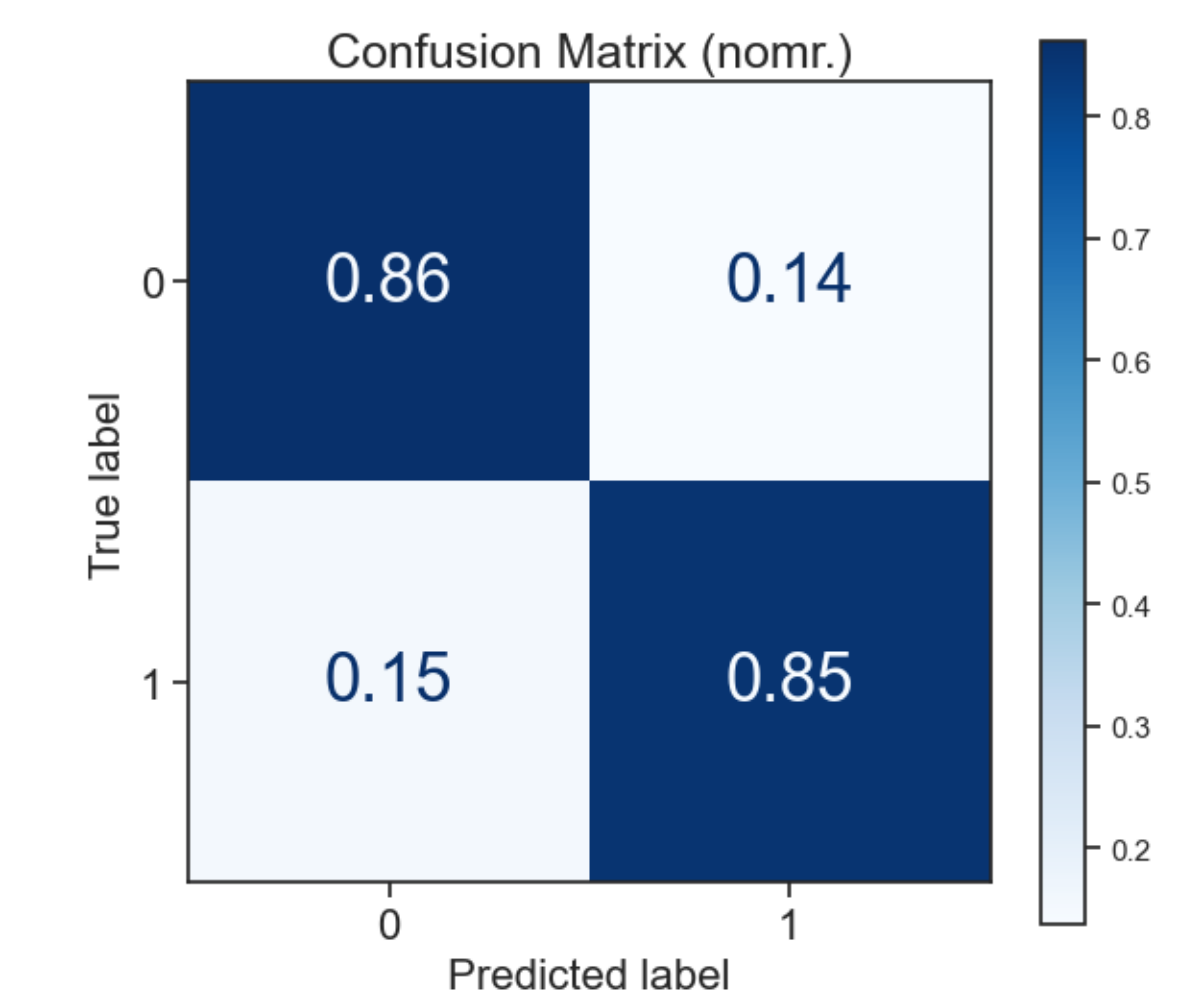
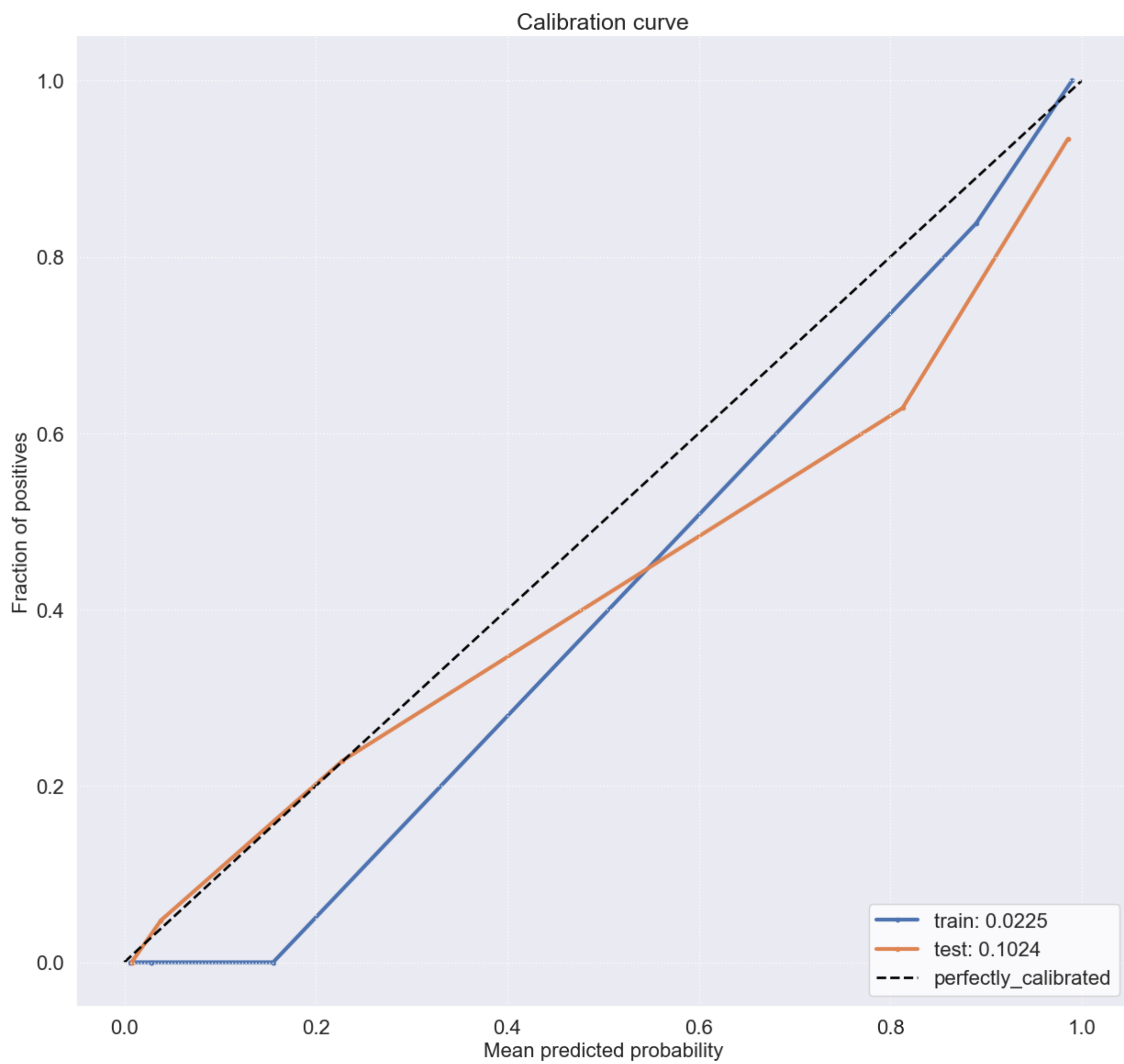
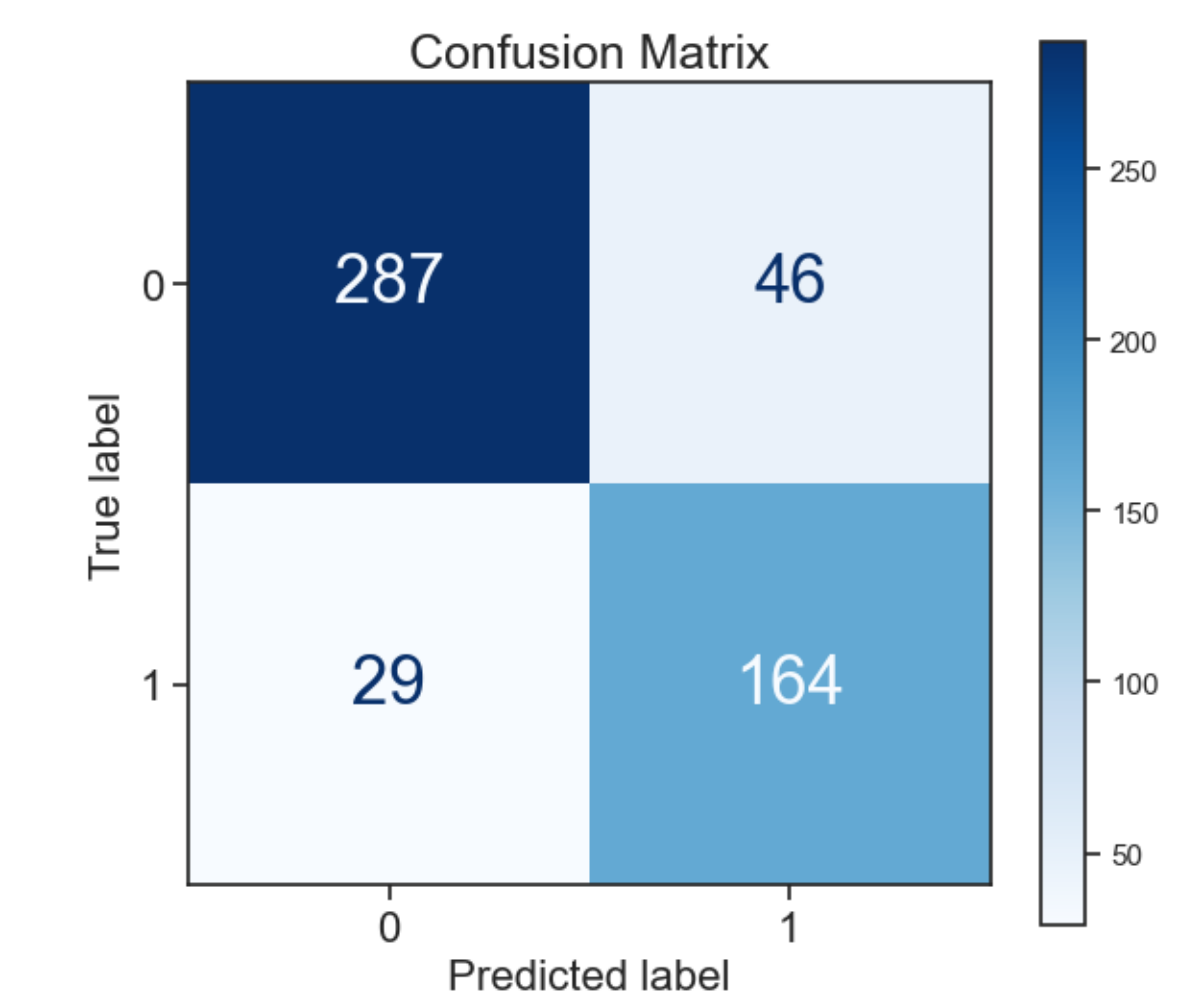
Metric	Train	Test
AUC	0.9985	0.9413
accuracy	0.9781	0.8707
balanced accuracy	0.9824	0.8652
recall_(sens)	0.9987	0.8446
specificity	0.9661	0.8859
precision	0.9449	0.8109
f1_score	0.9782	0.8712



Protein: P35354 - metric: f1



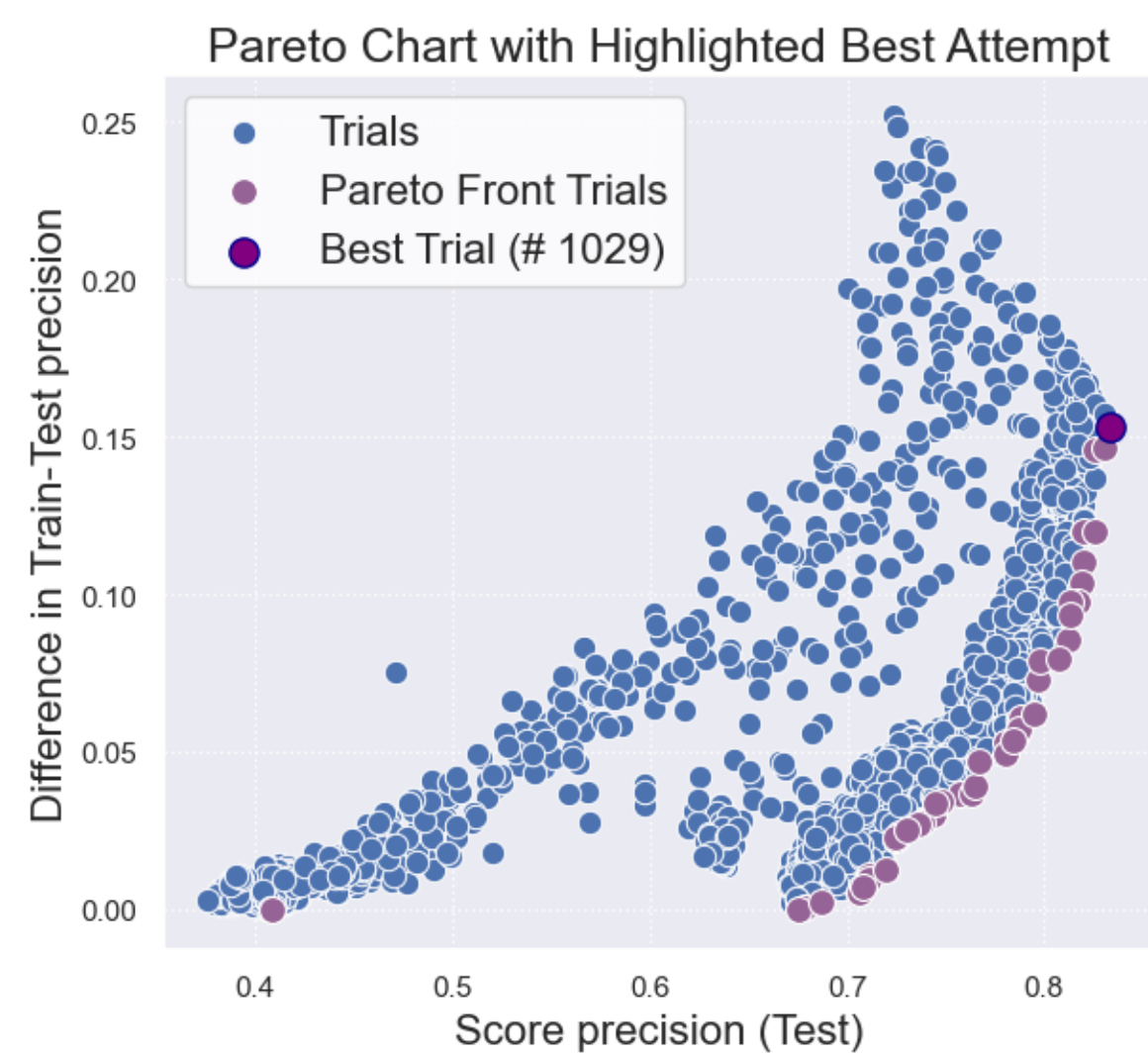
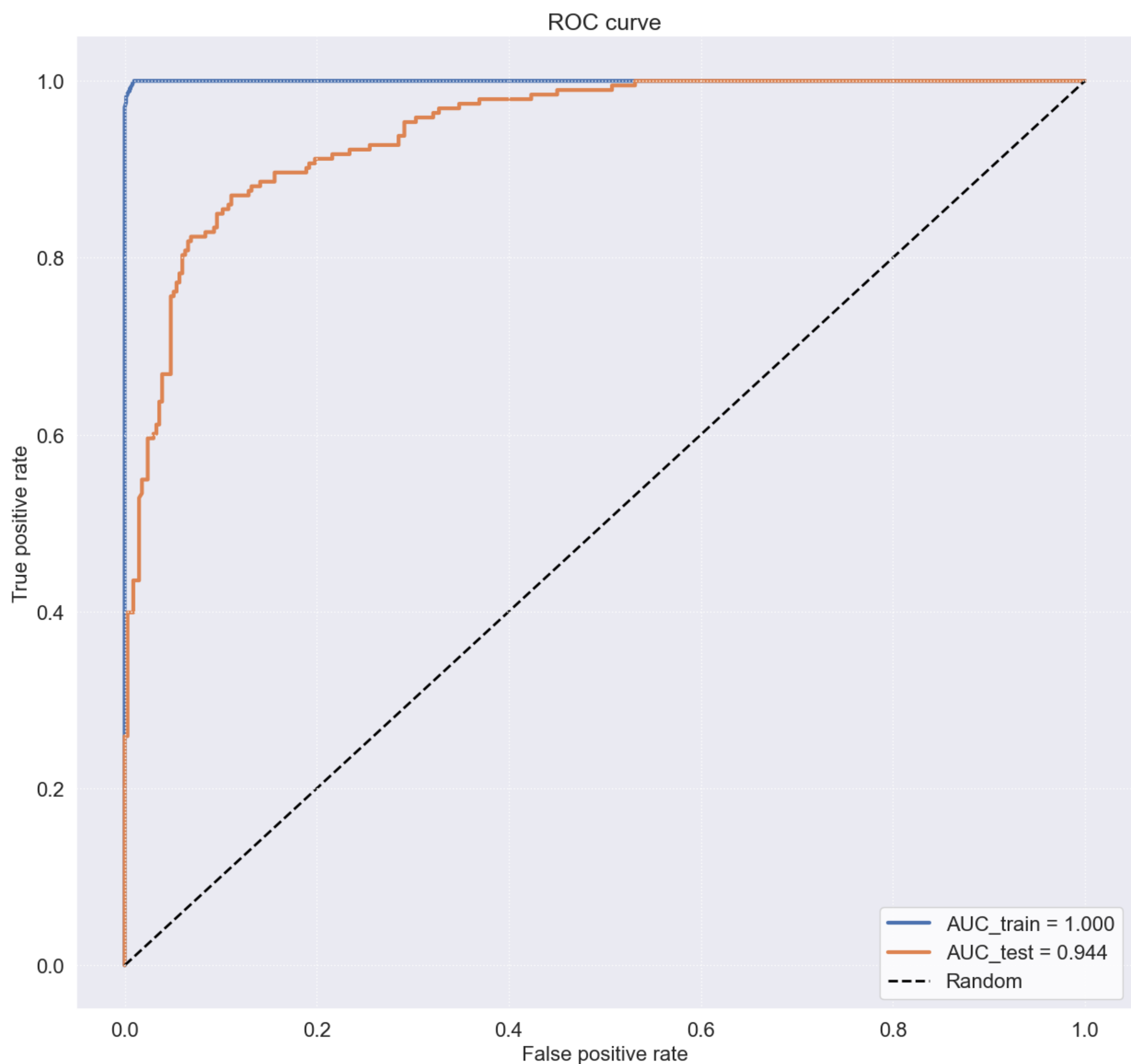
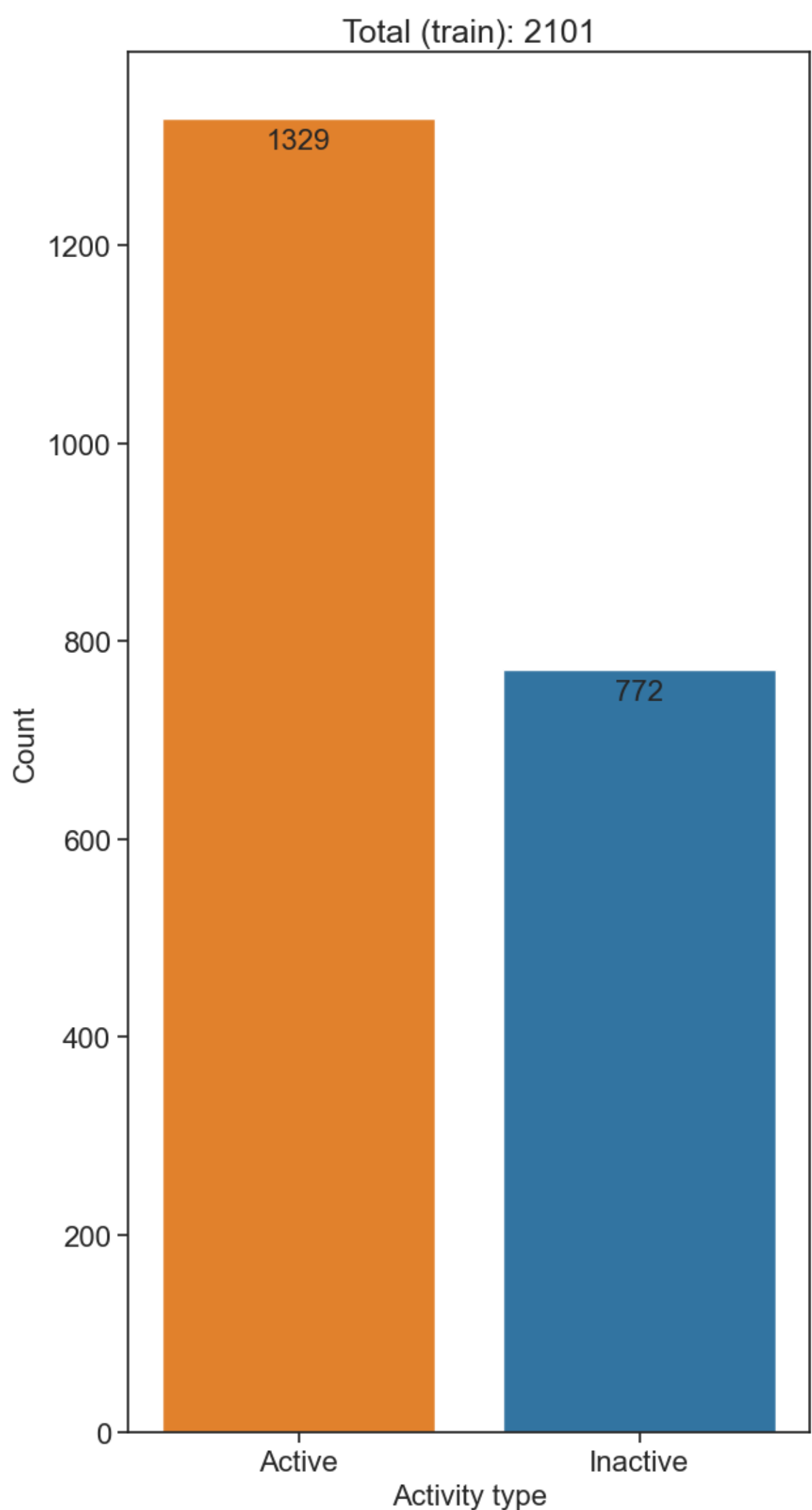
XGBoost Parameters	Value
alpha	1.9986
colsample_bytree	0.8616
gamma	0.8233
lambda	0.1898
learning_rate	0.1411
max_depth	10.0
min_child_weight	1.0
n_estimators	414.0
reg_alpha	0.4432
reg_lambda	0.6012
scale_pos_weight	4.653
subsample	0.8148



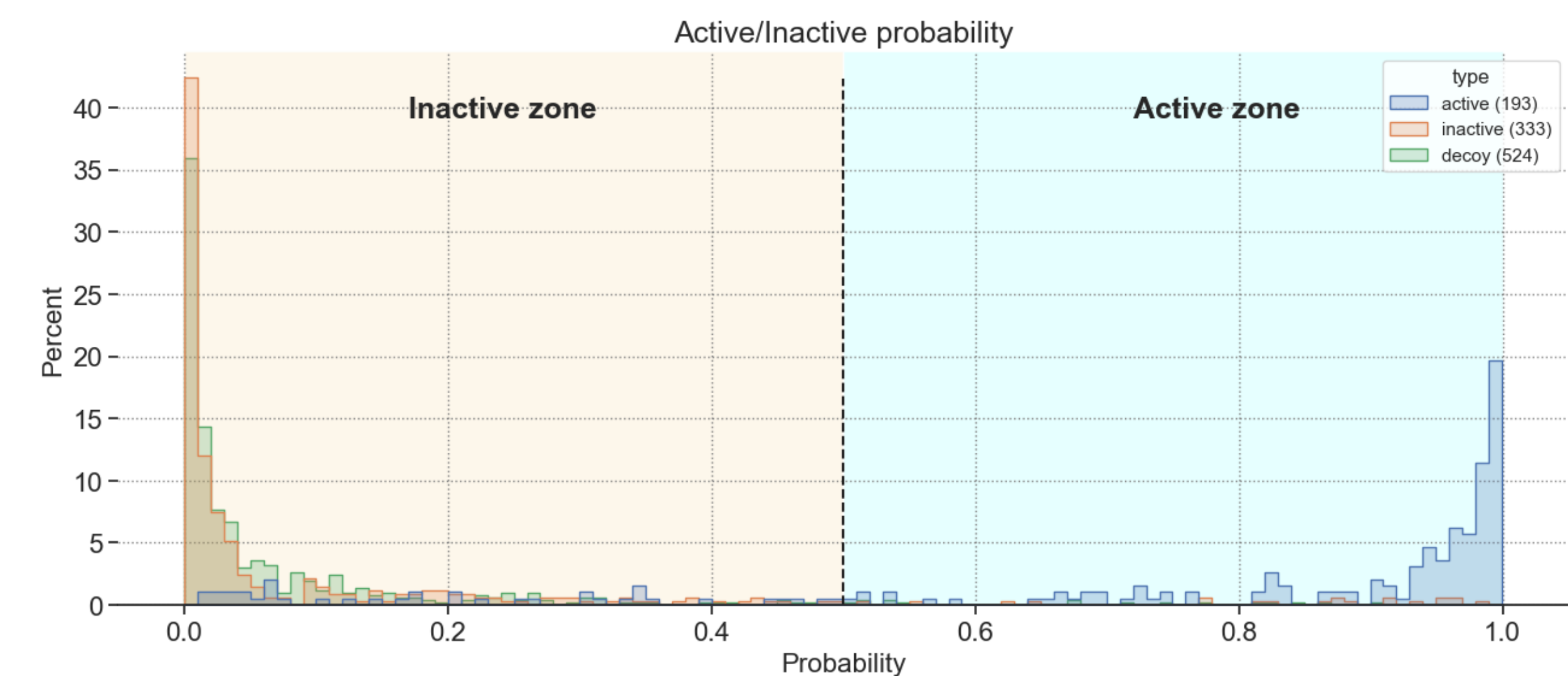
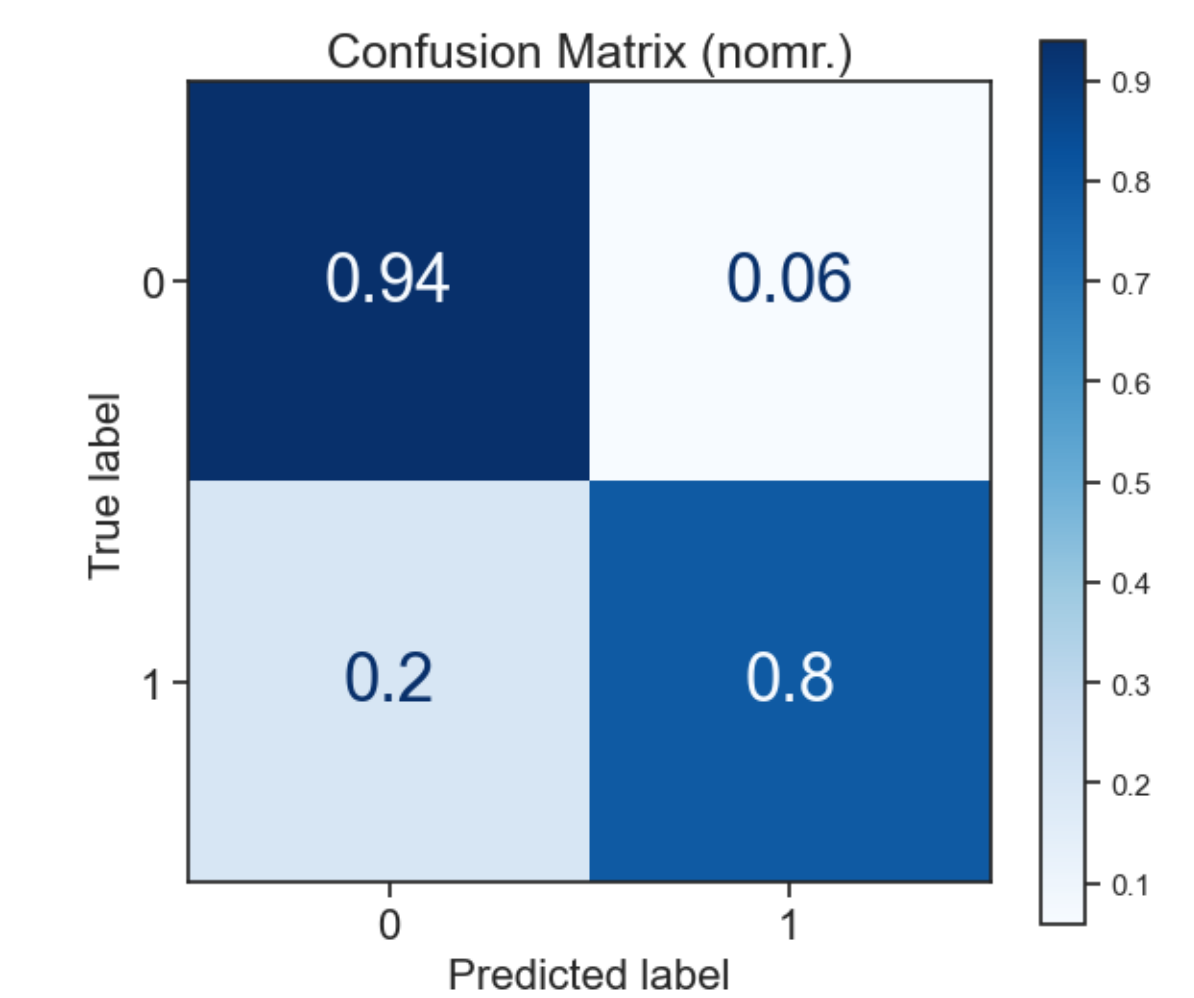
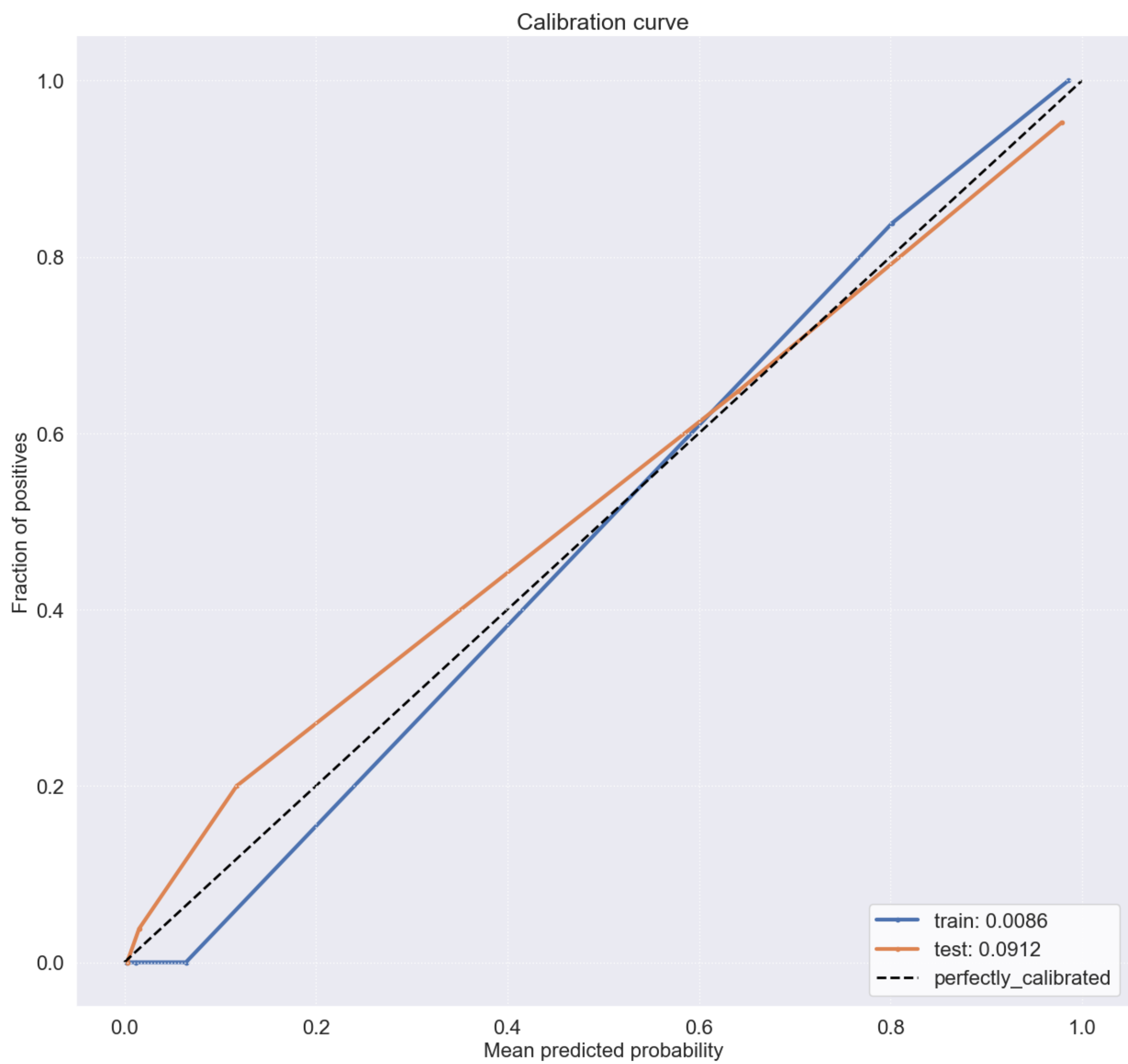
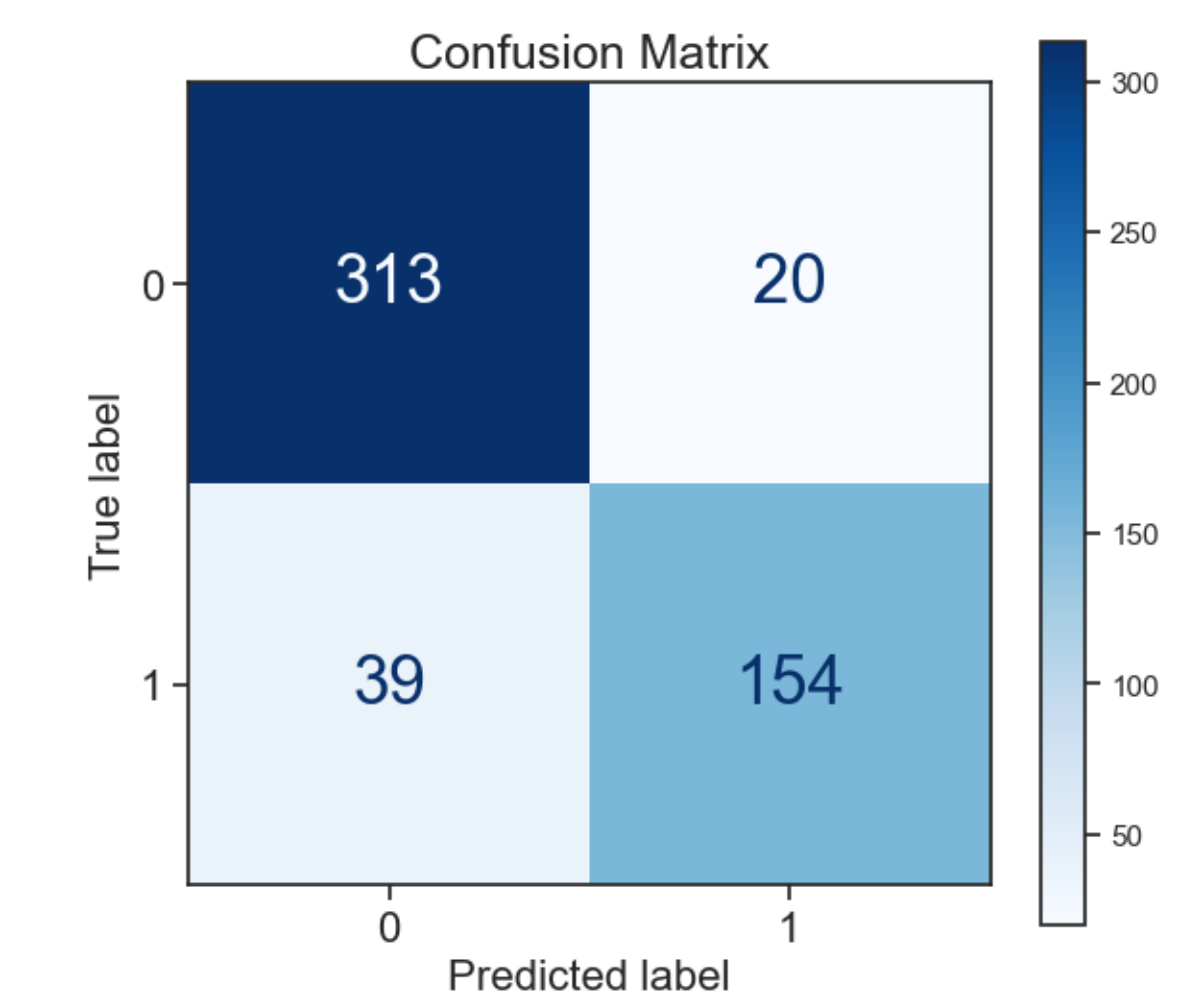
Metric	Train	Test
AUC	0.9989	0.9396
accuracy	0.9738	0.8574
balanced accuracy	0.9793	0.8558
recall_(sens)	1.0	0.8497
specificity	0.9586	0.8619
precision	0.9335	0.781
f1_score	0.974	0.8586



Protein: P35354 - metric: precision



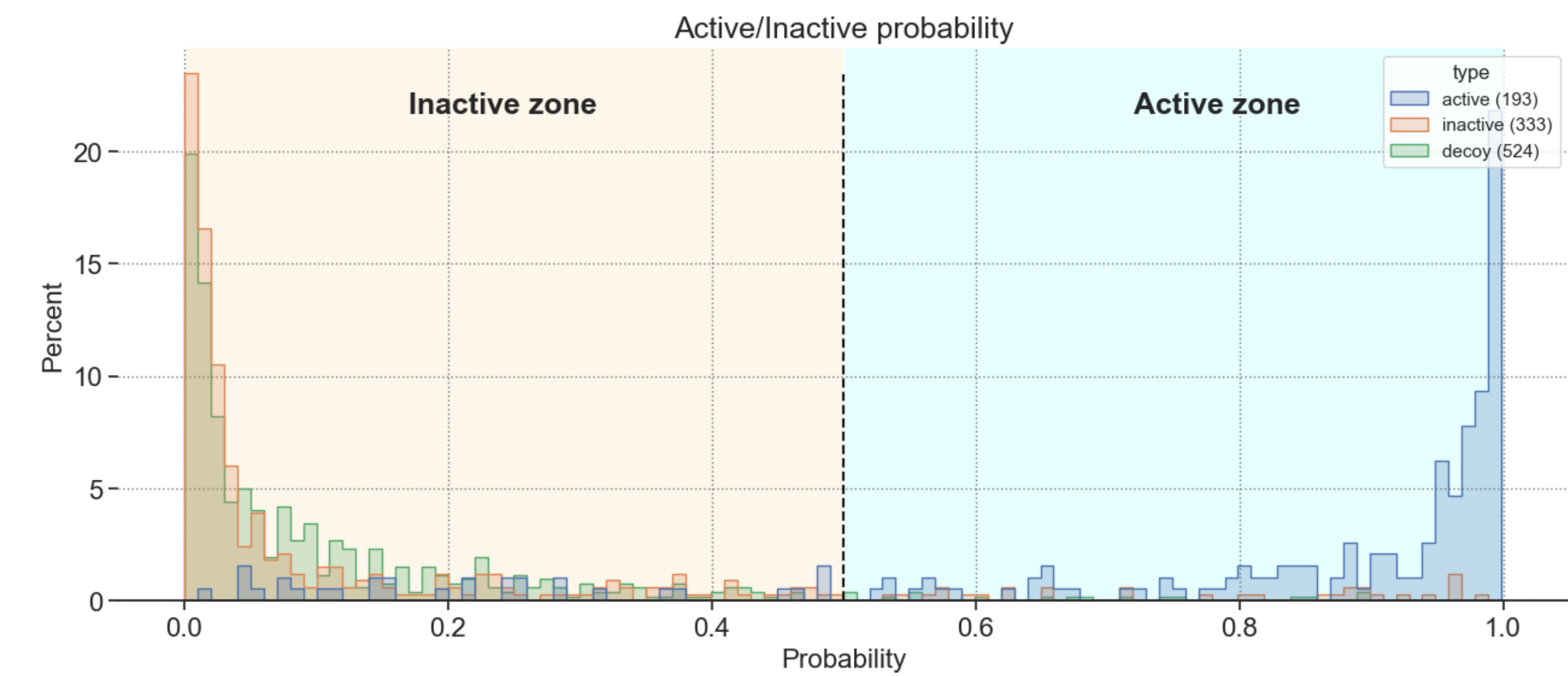
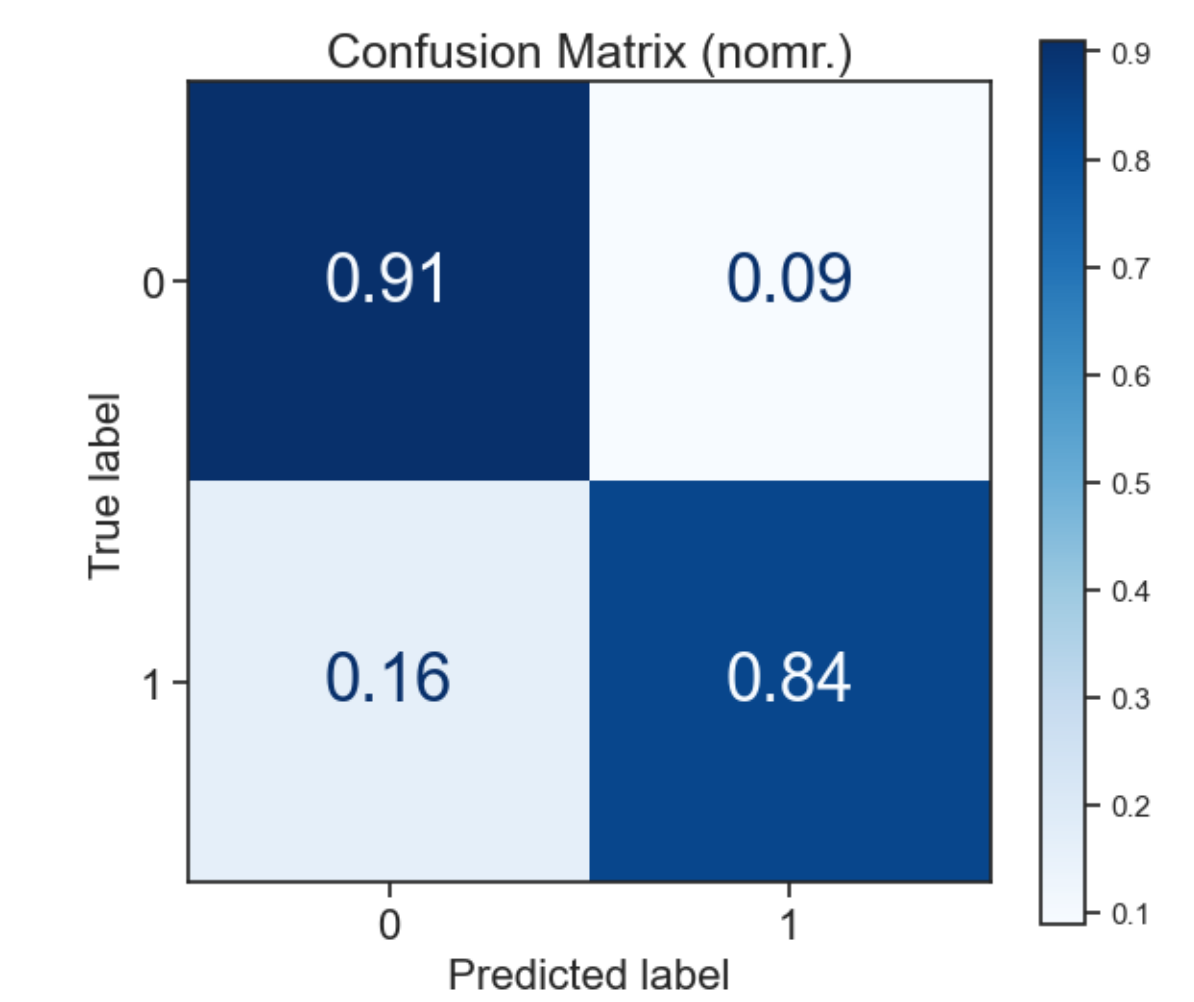
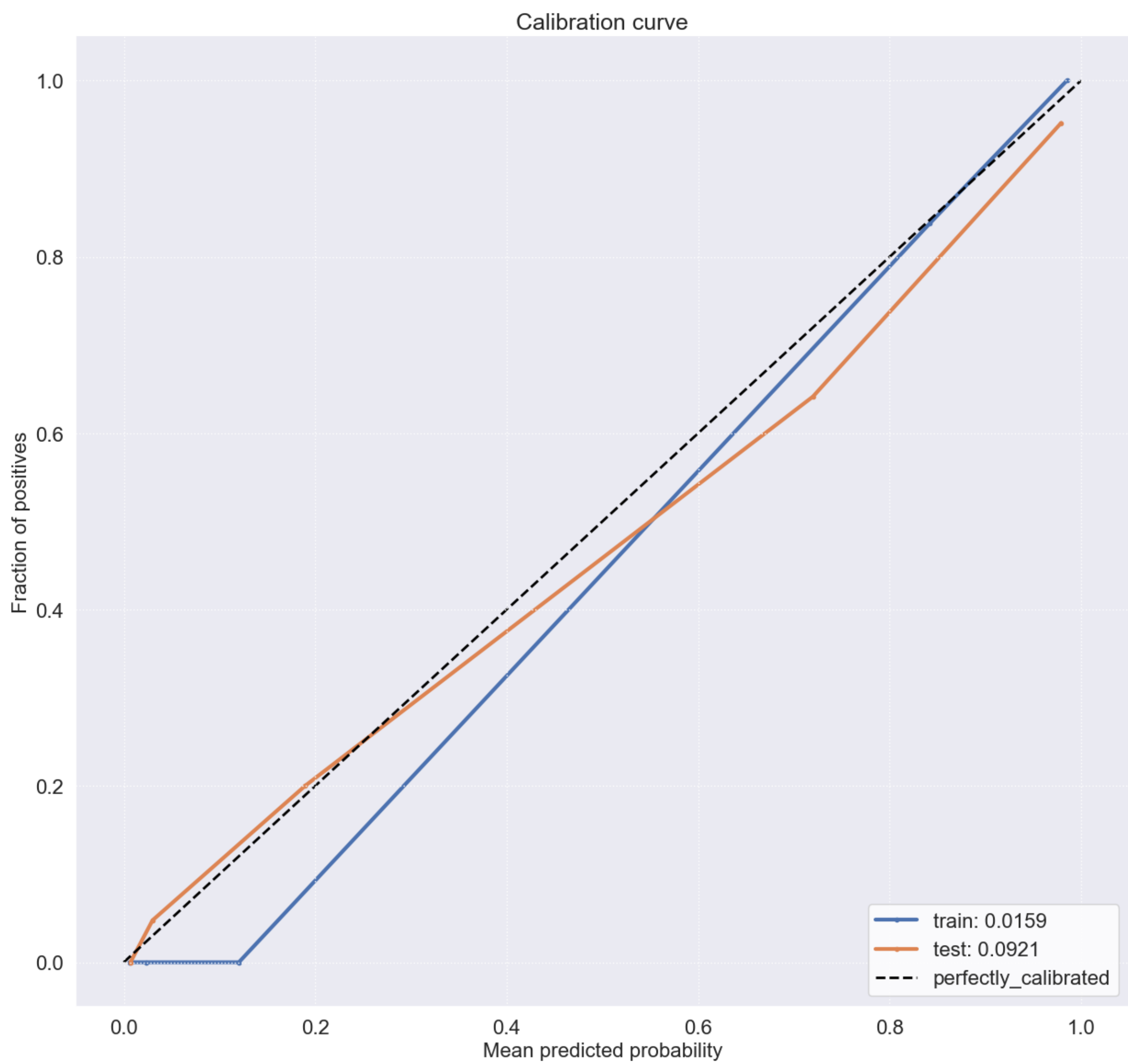
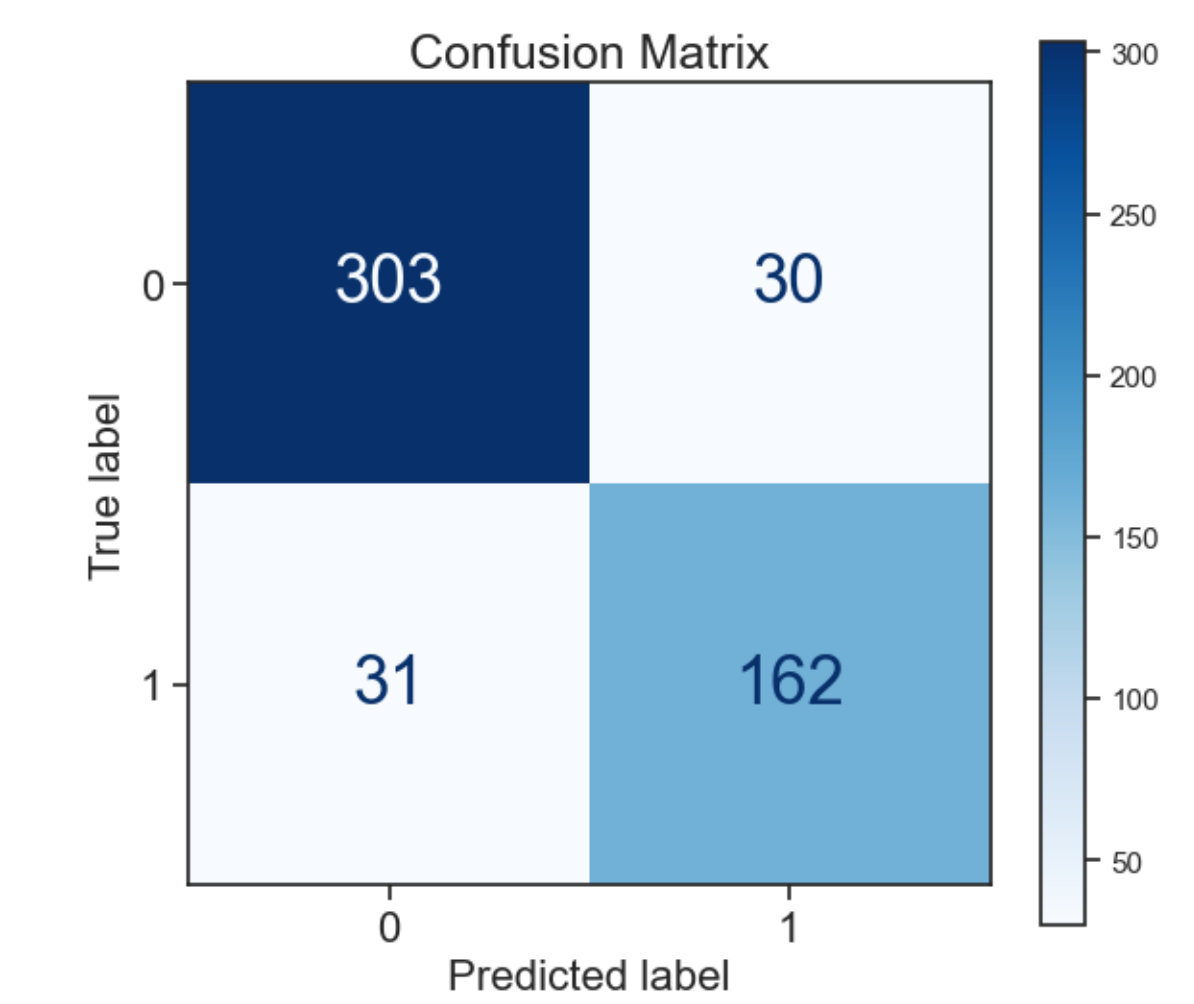
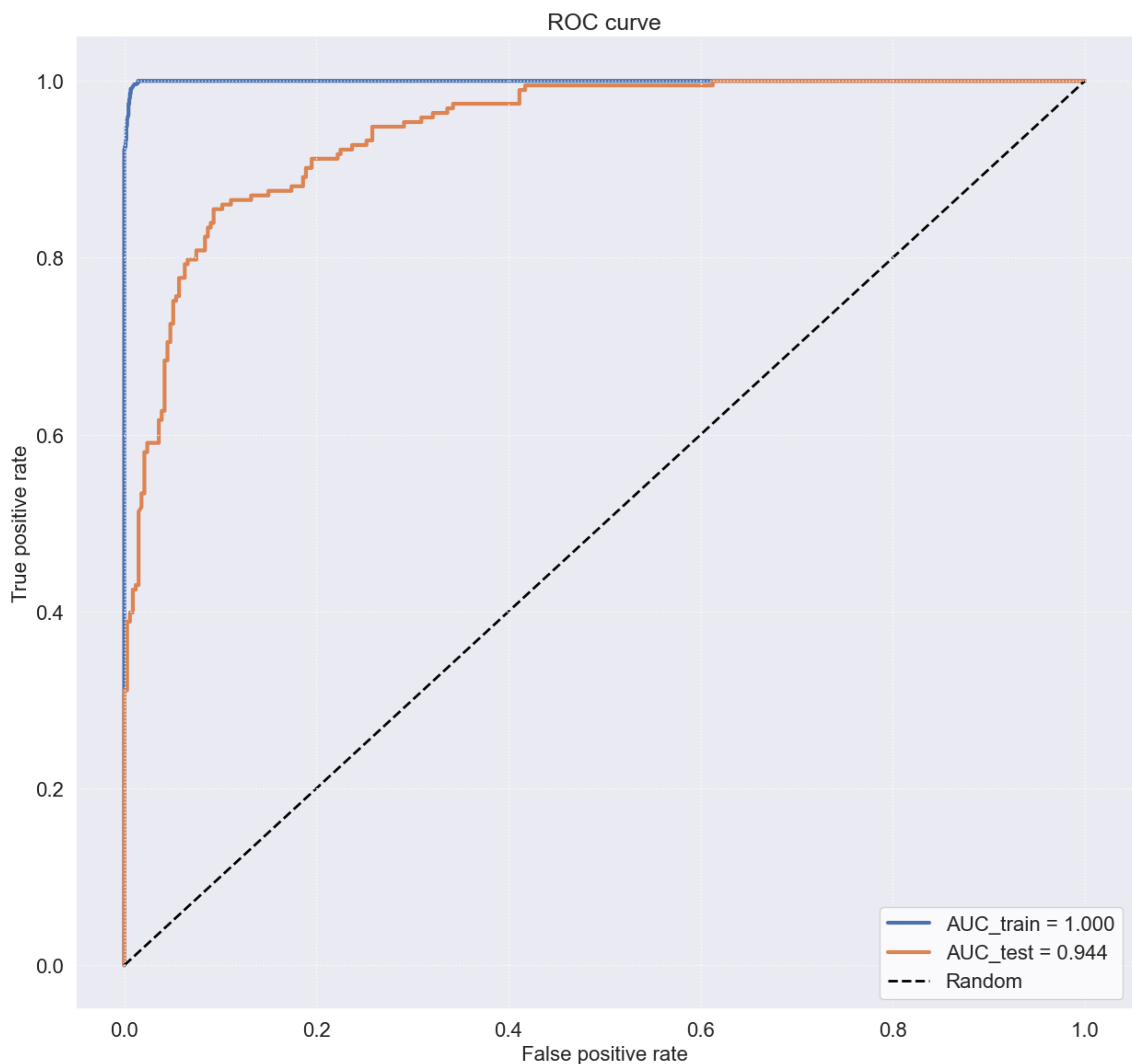
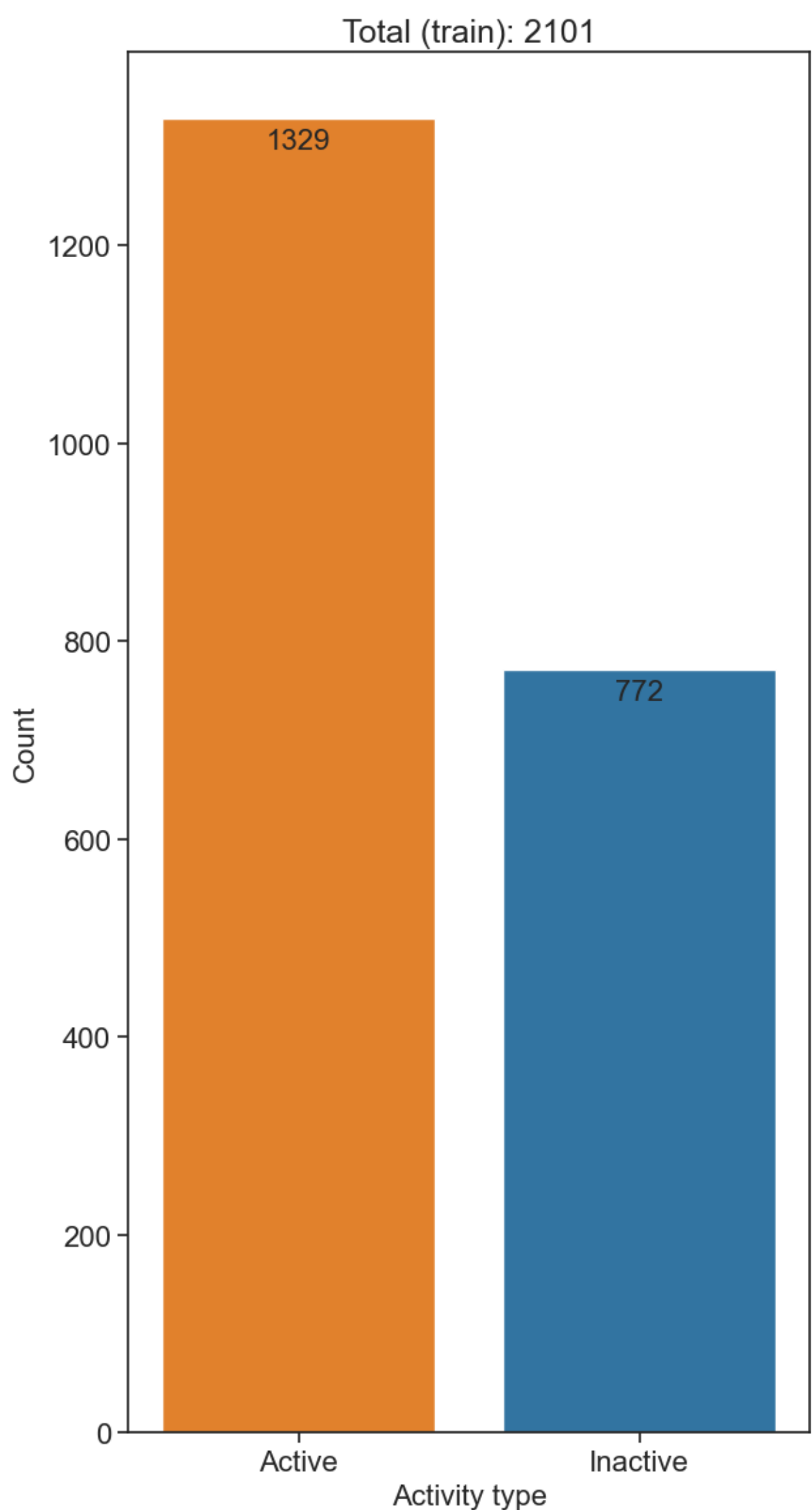
XGBoost Parameters		Value
alpha		1.4547
colsample_bytree		0.5998
gamma		0.0015
lambda		2.3032
learning_rate		0.0442
max_depth		10.0
min_child_weight		1.0
n_estimators		922.0
reg_alpha		0.4385
reg_lambda		0.3836
scale_pos_weight		1.2925
subsample		0.7939



Metric	Train	Test
AUC	0.9999	0.9444
accuracy	0.9938	0.8878
balanced accuracy	0.9951	0.8689
recall_(sens)	1.0	0.7979
specificity	0.9902	0.9399
precision	0.9834	0.8851
f1_score	0.9938	0.8865



Protein: P35354 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9997	0.9436
accuracy	0.9852	0.884
balanced accuracy	0.9883	0.8746
recall_(sens)	1.0	0.8394
specificity	0.9767	0.9099
precision	0.9614	0.8438
f1_score	0.9853	0.884