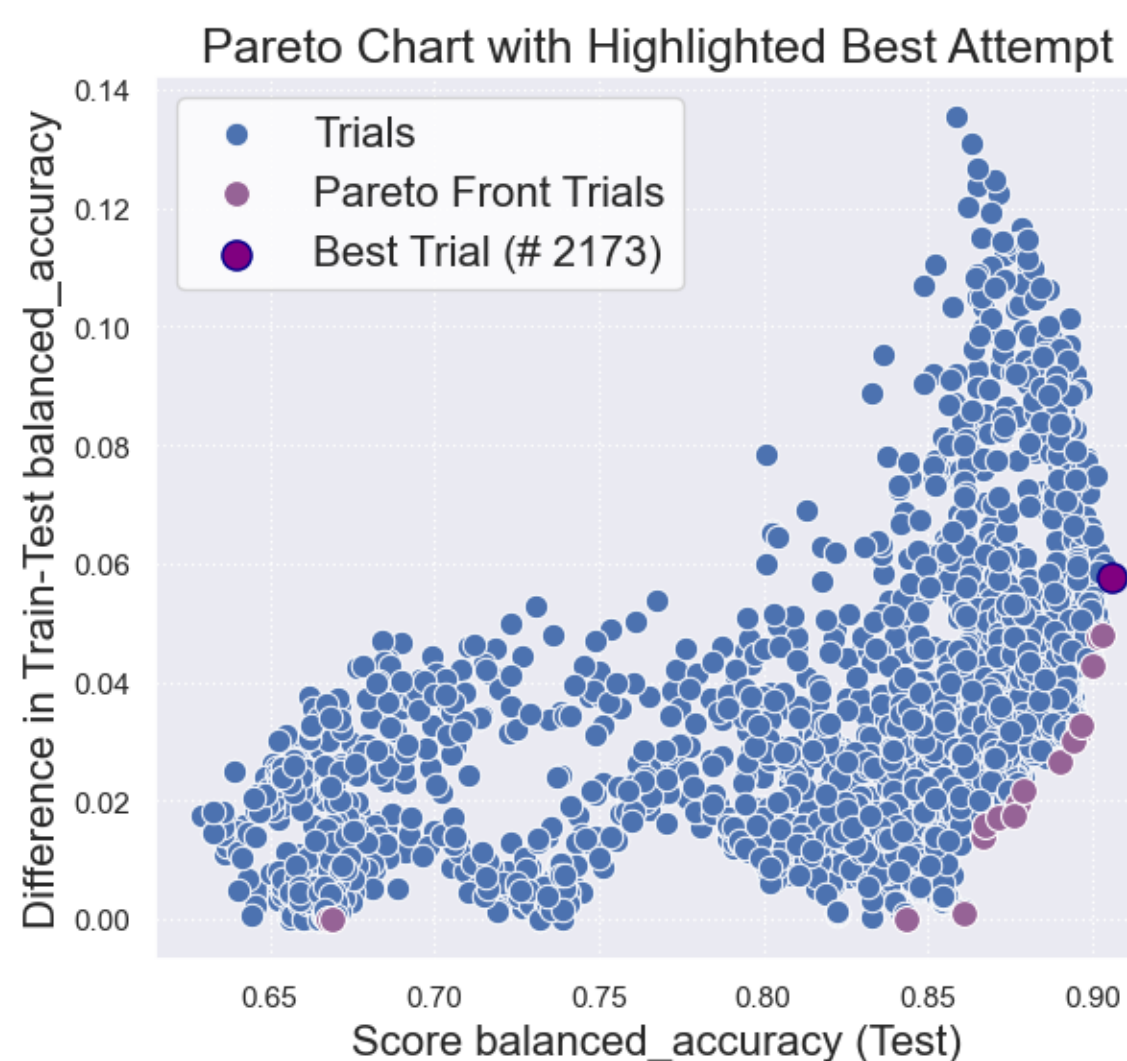
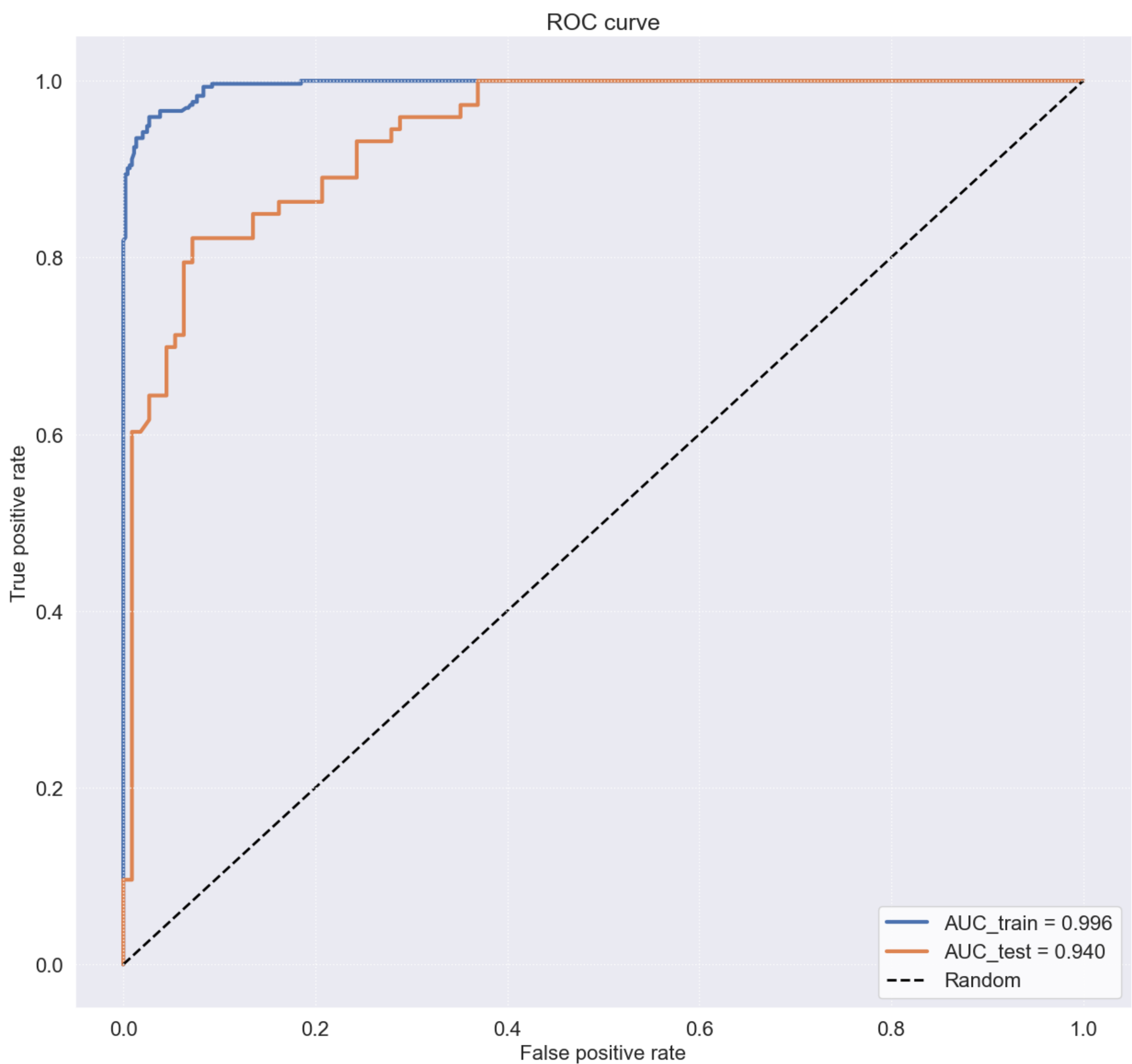
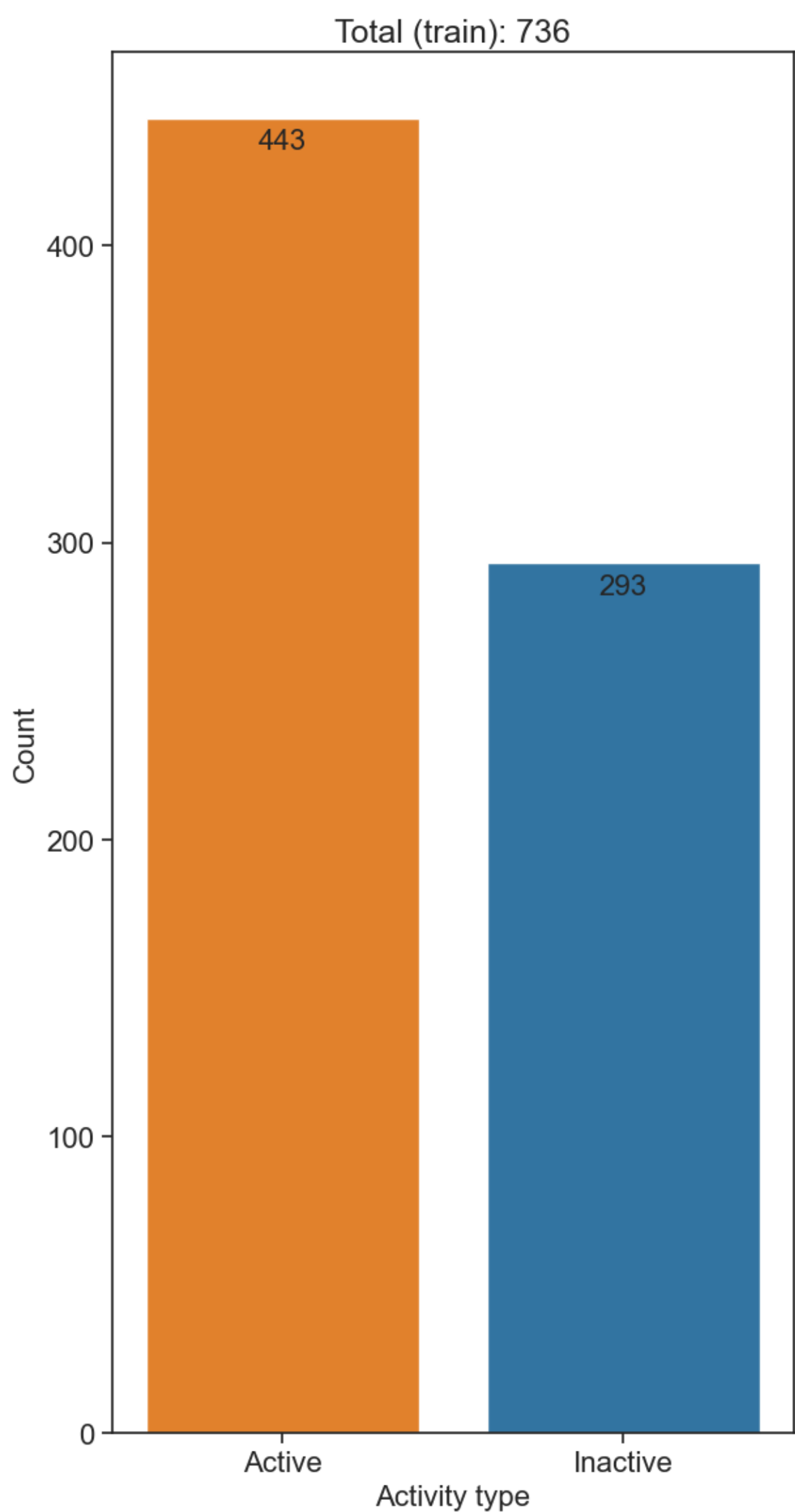
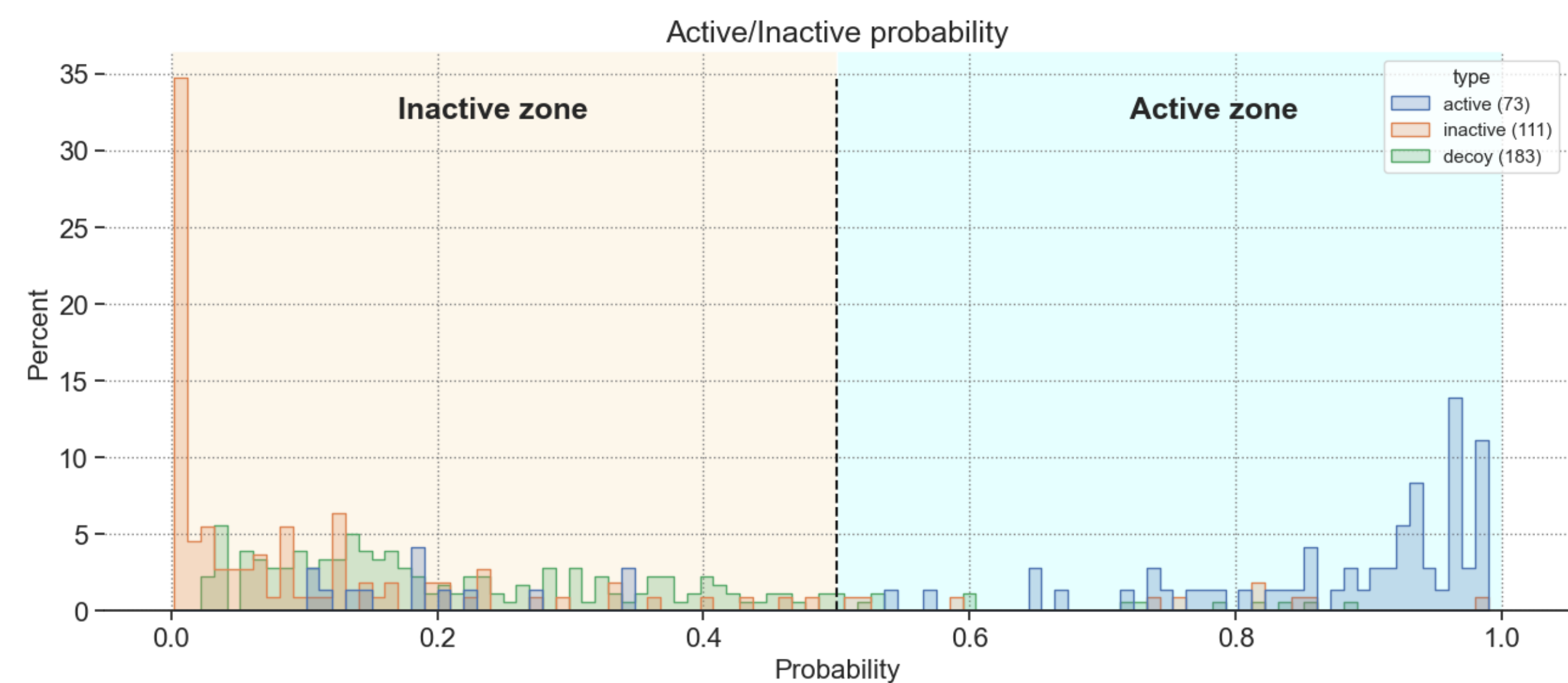
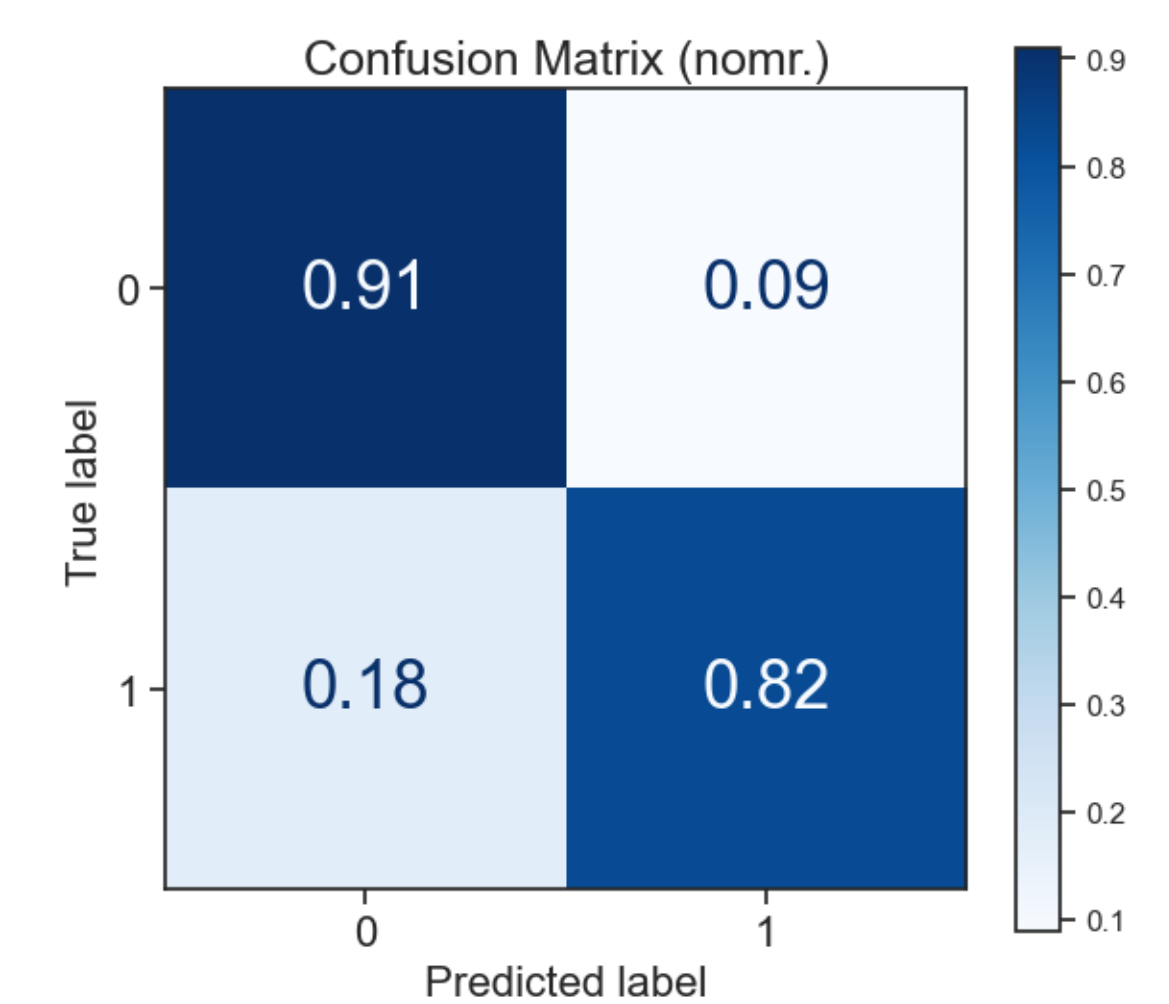
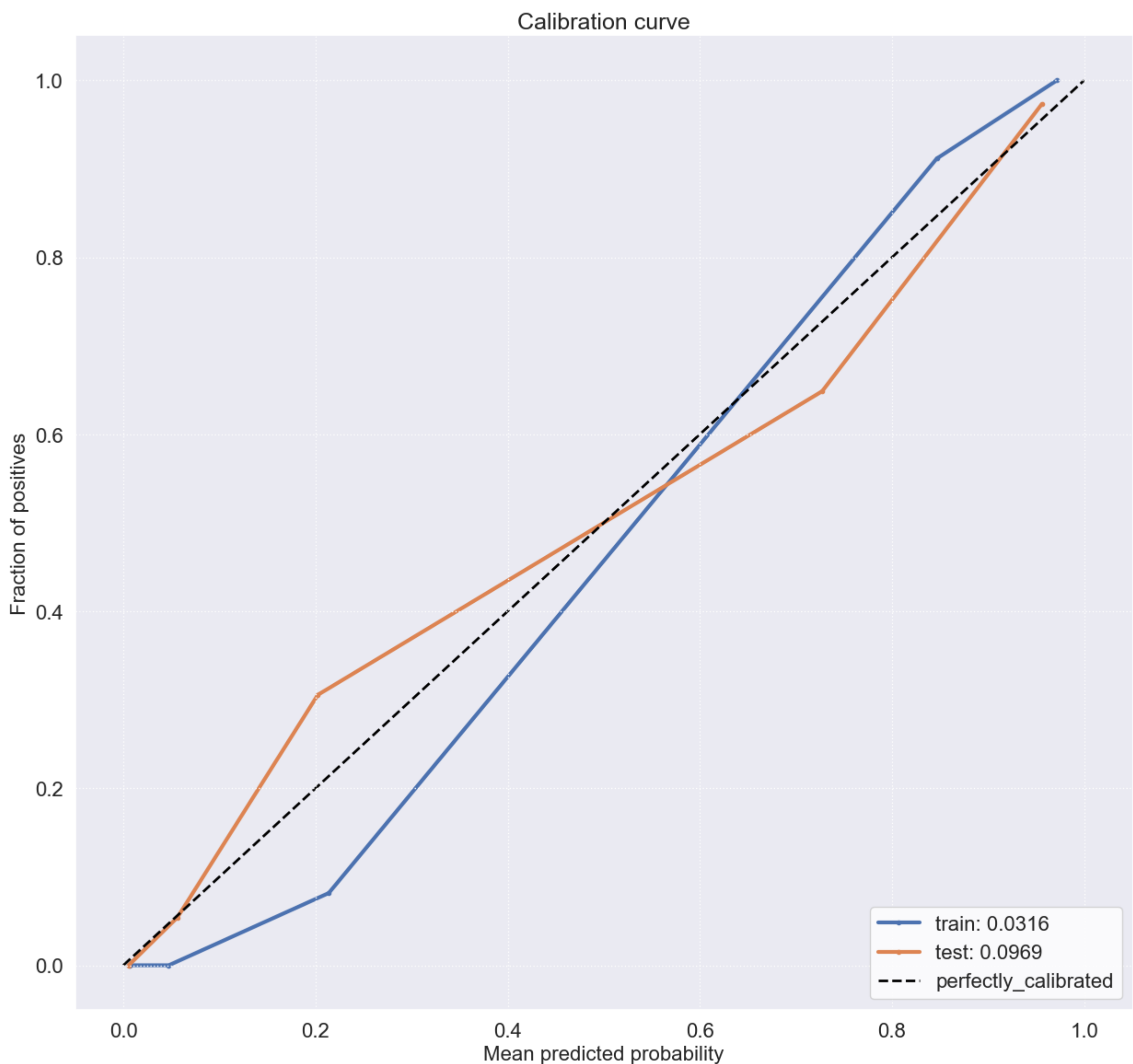
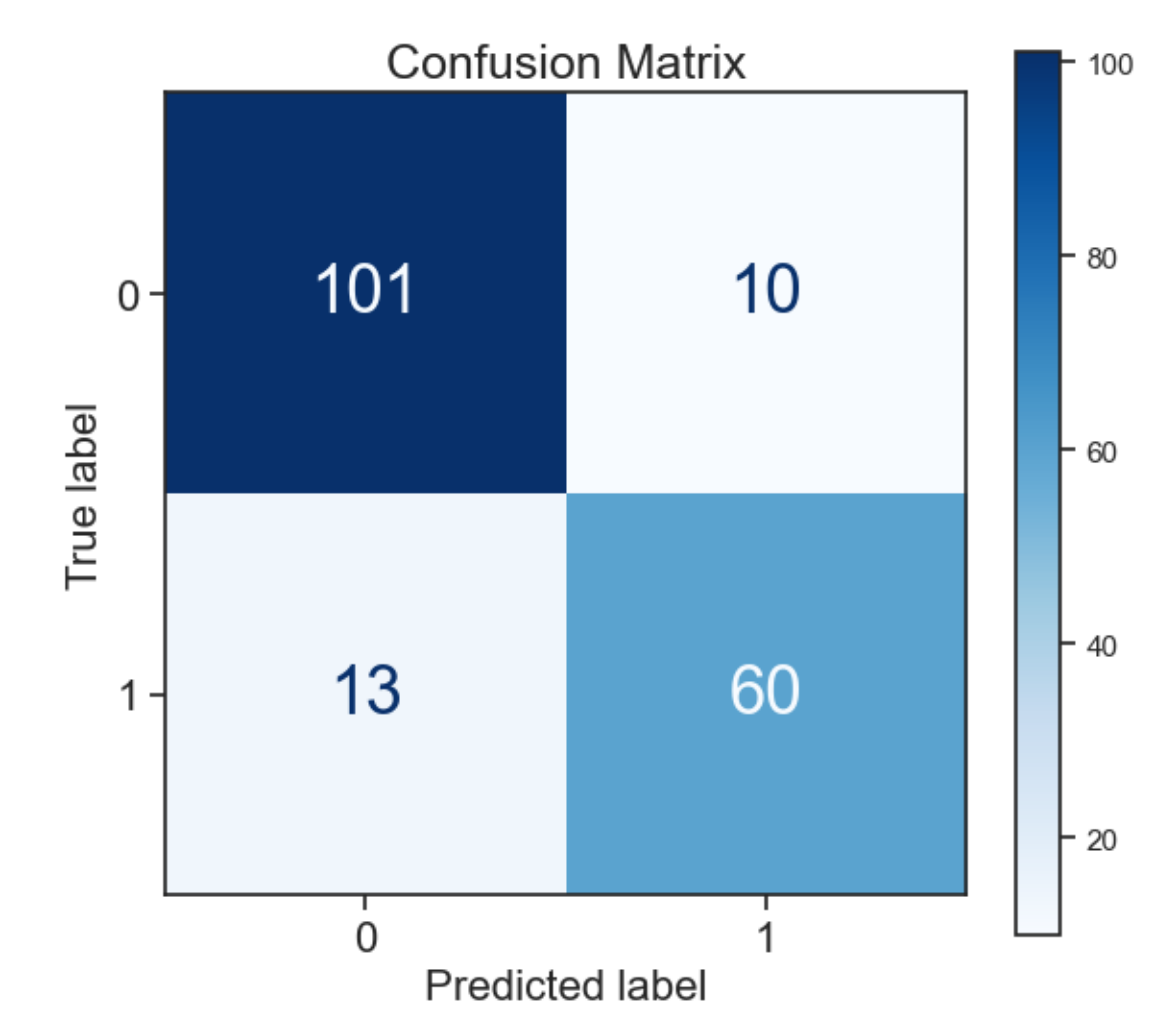


Protein: P25100 - metric: balanced_accuracy

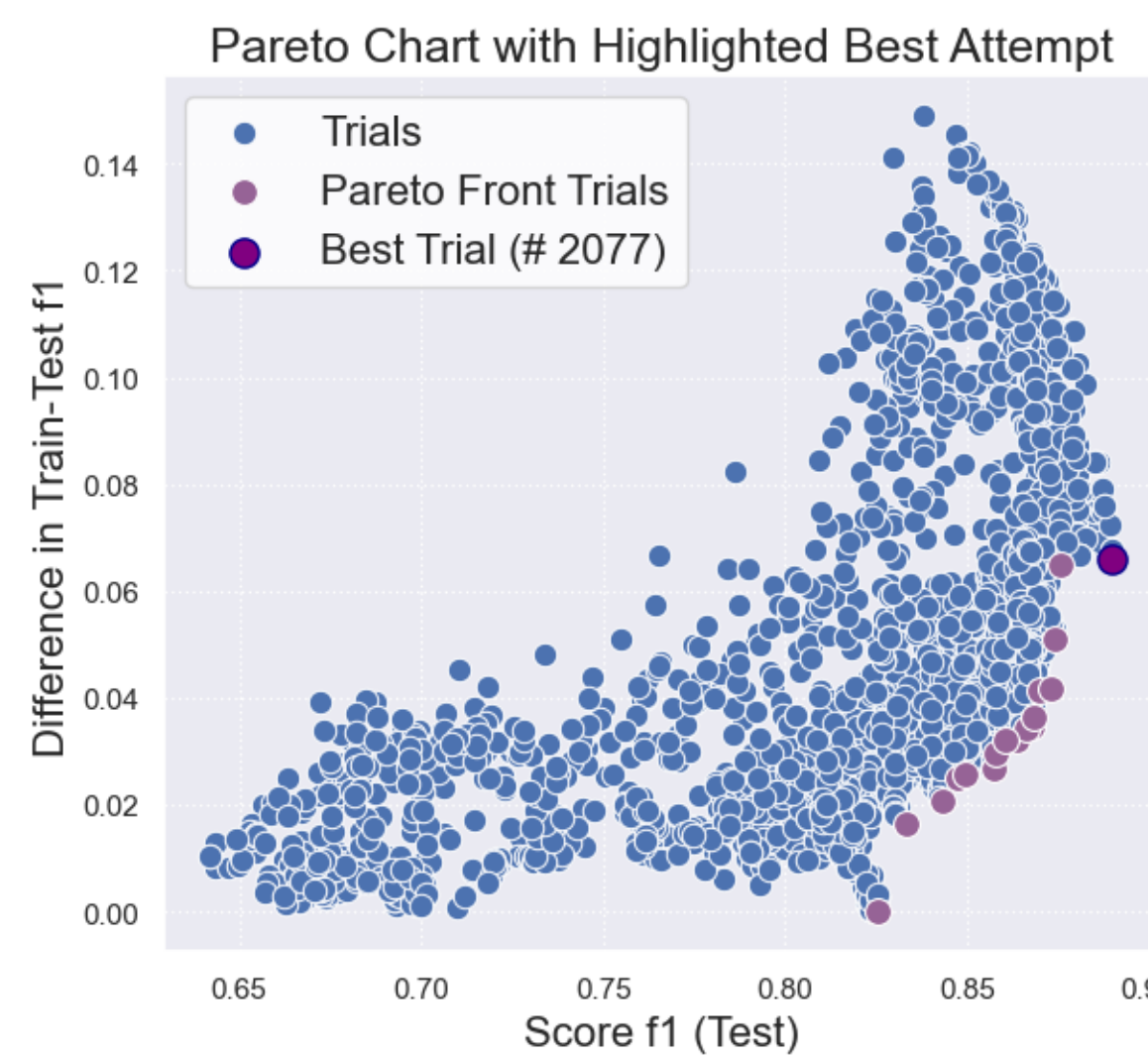
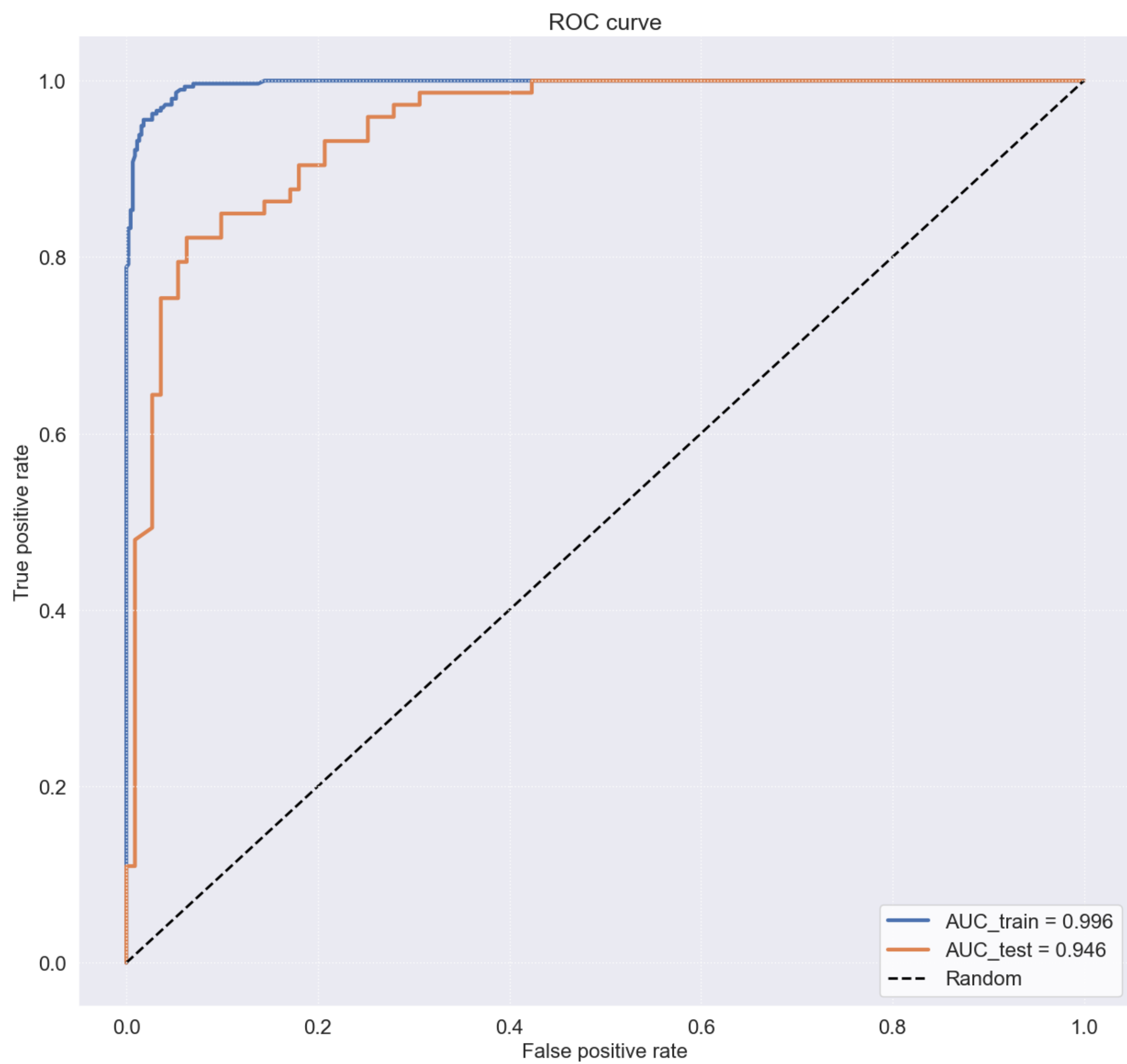
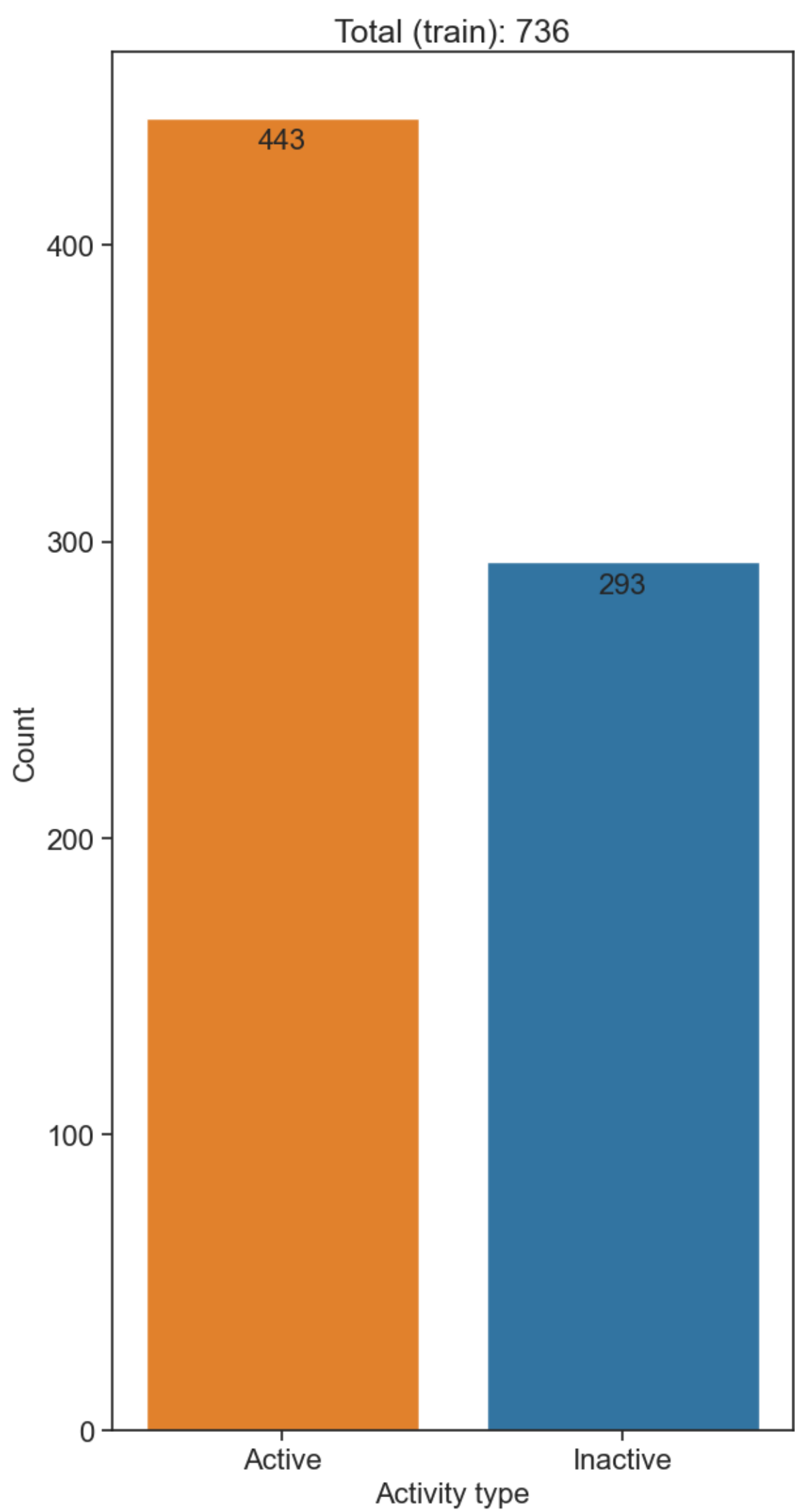


XGBoost Parameters	Value
alpha	3.6326
colsample_bytree	0.7895
gamma	0.9776
lambda	3.9318
learning_rate	0.0317
max_depth	7.0
min_child_weight	1.0
n_estimators	474.0
reg_alpha	0.4099
reg_lambda	0.0001
scale_pos_weight	1.4569
subsample	0.9314

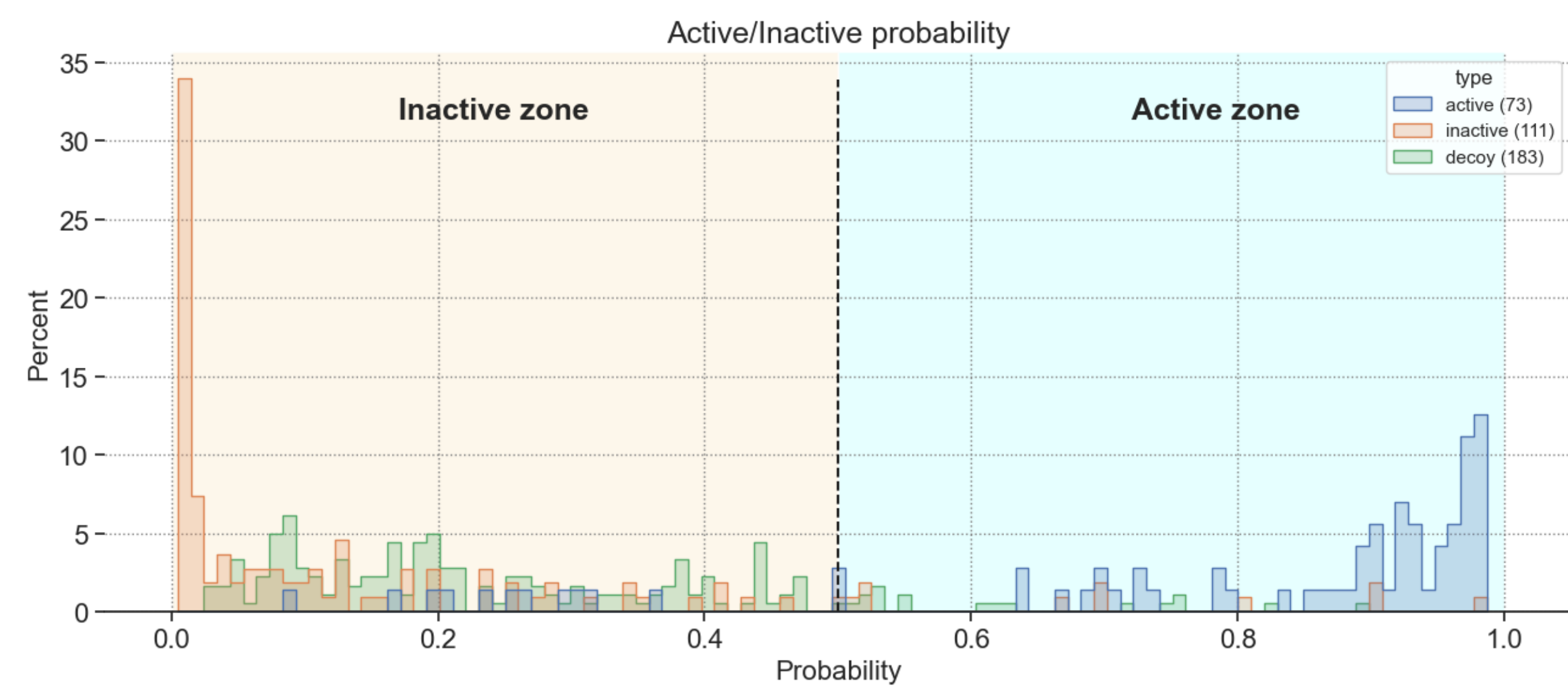
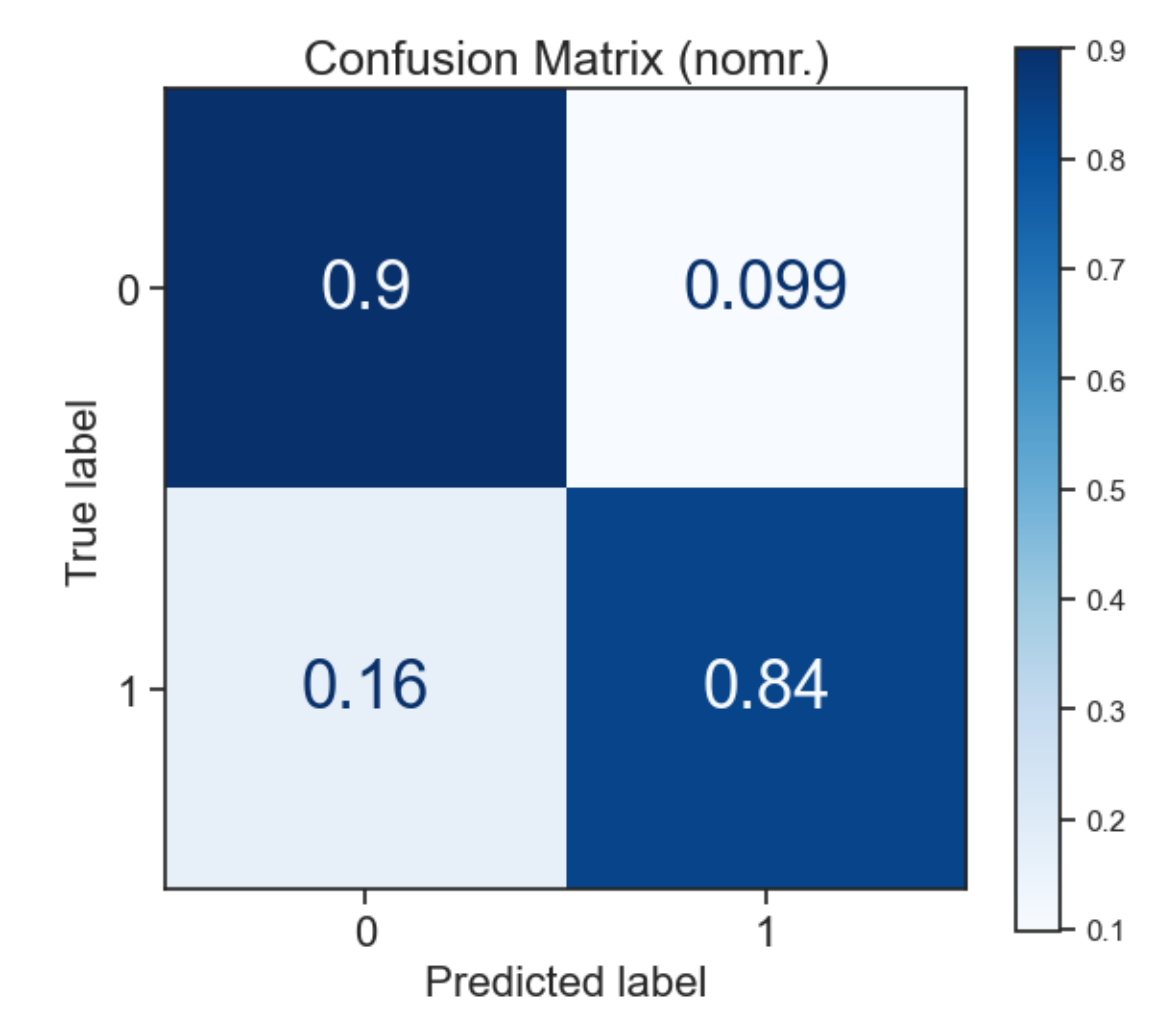
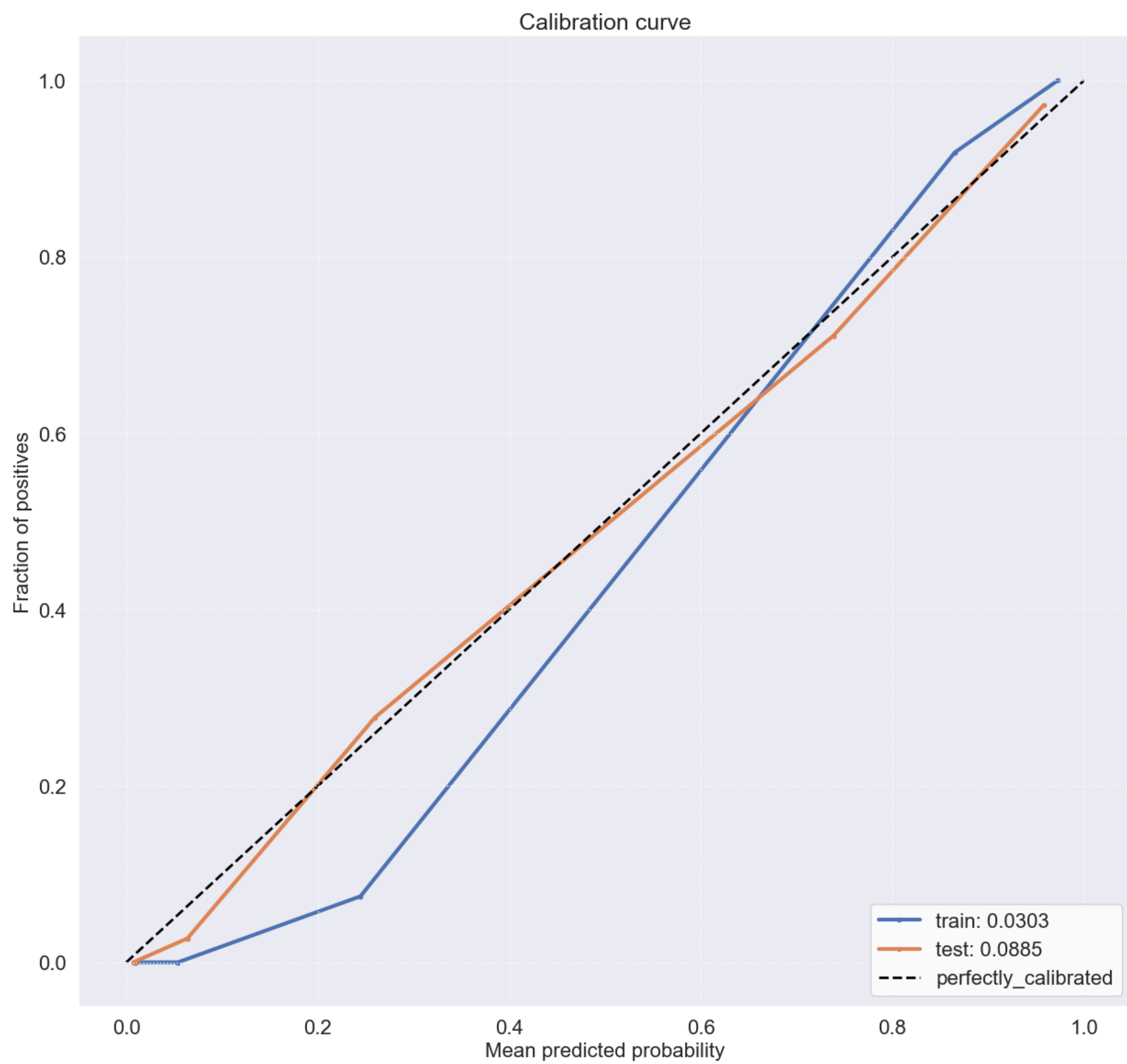
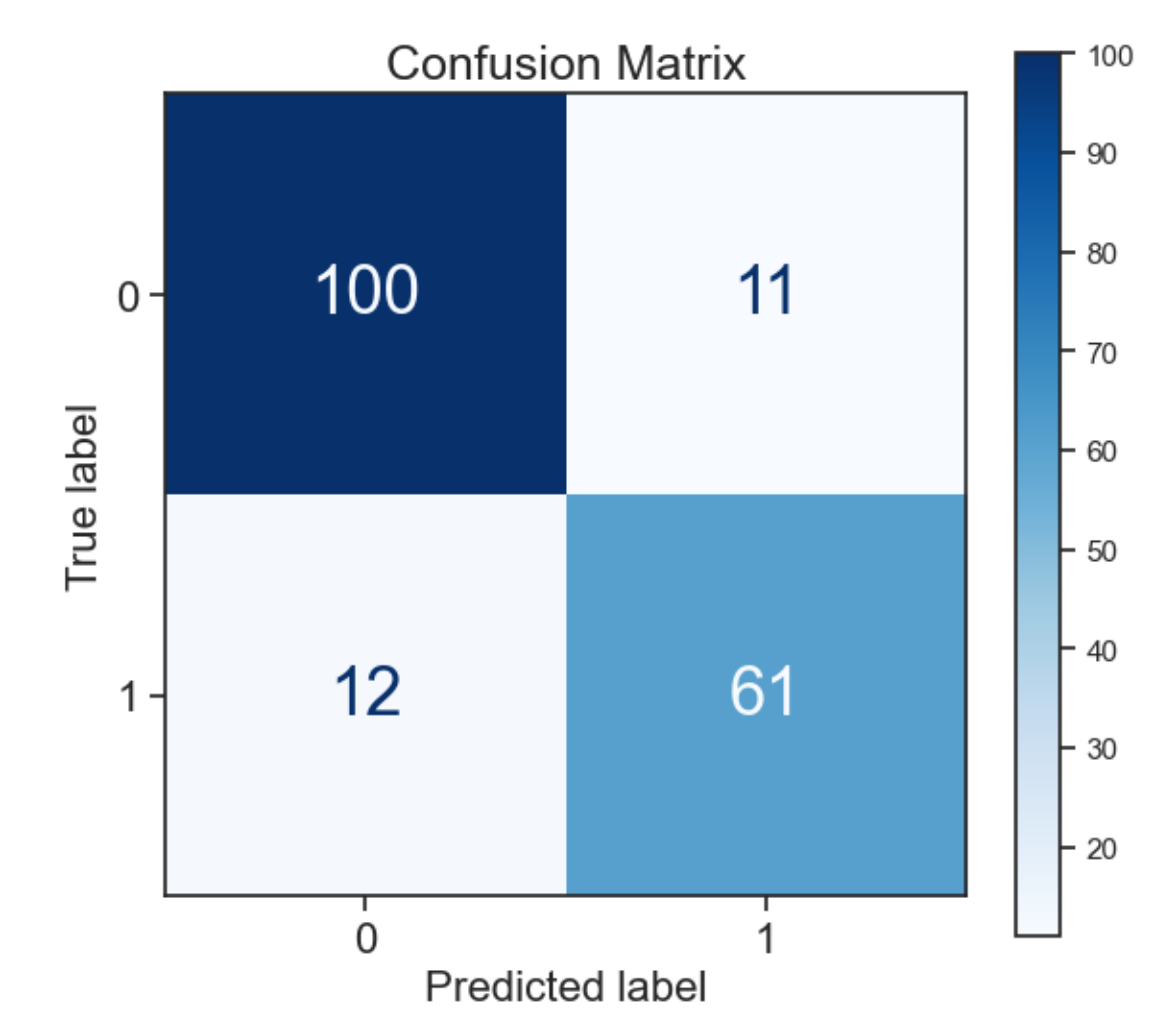


Metric	Train	Test
AUC	0.9956	0.9397
accuracy	0.9606	0.875
balanced accuracy	0.9603	0.8659
recall_(sens)	0.959	0.8219
specificity	0.9616	0.9099
precision	0.943	0.8571
f1_score	0.9607	0.8745

Protein: P25100 - metric: f1

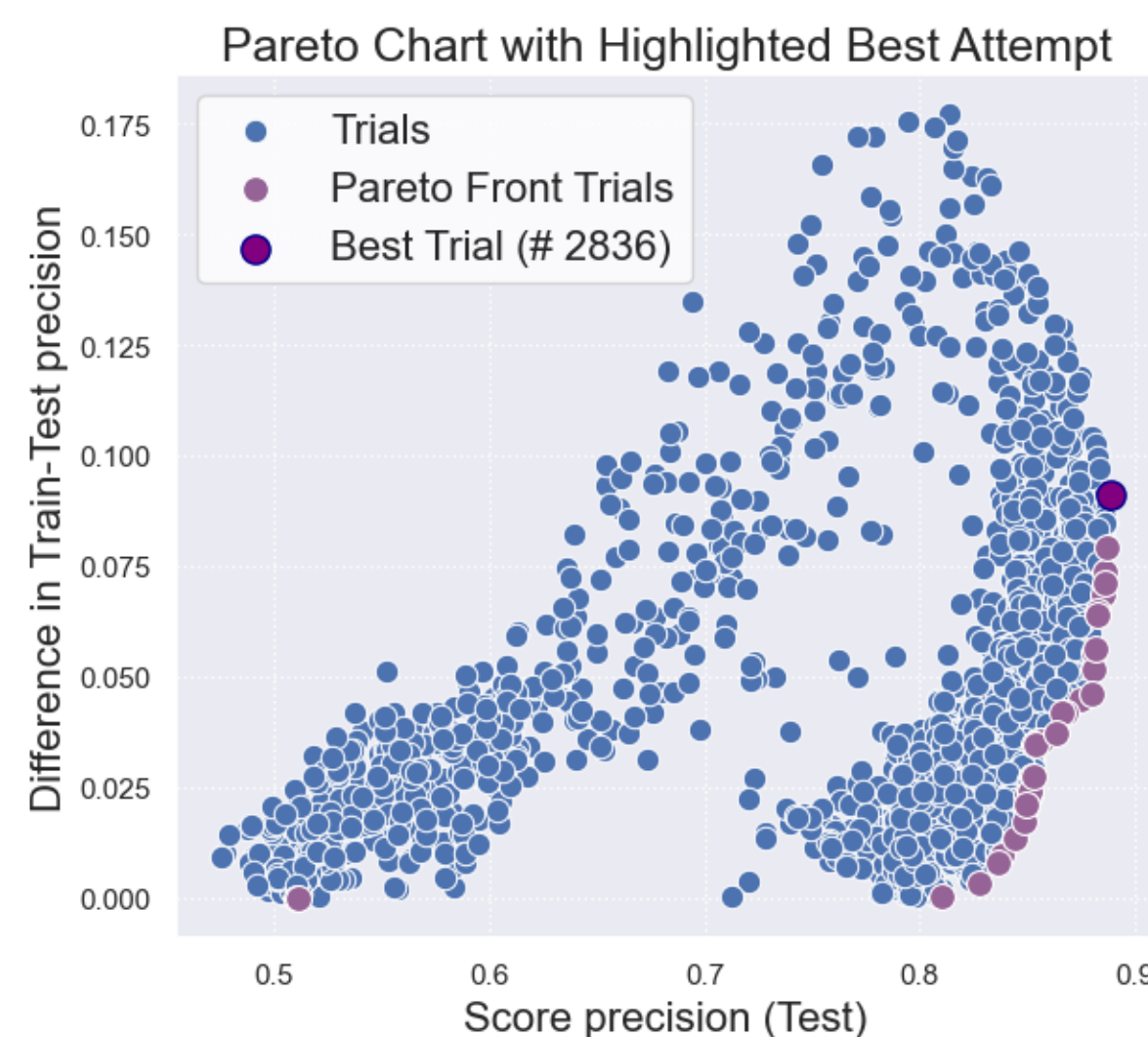
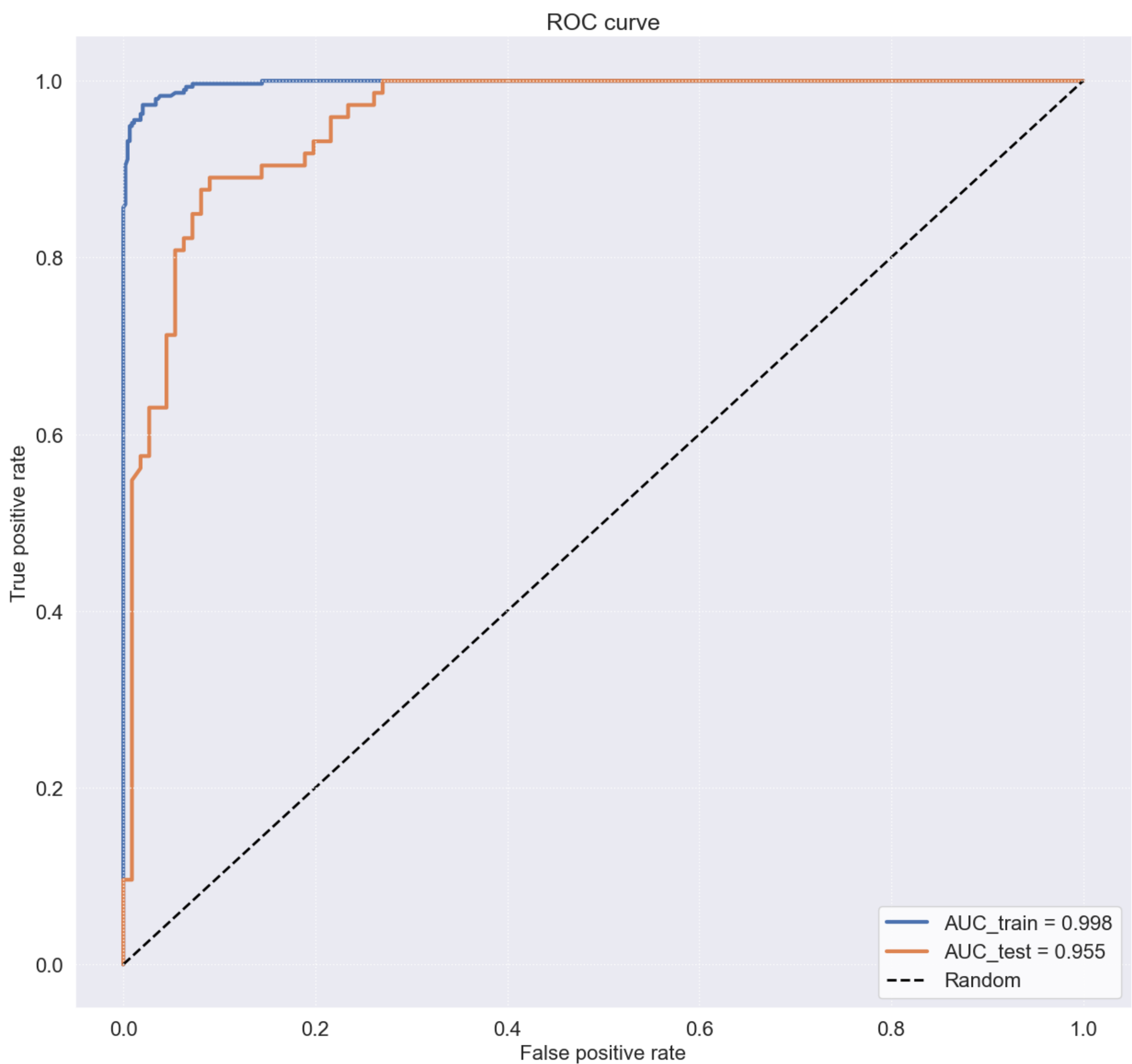
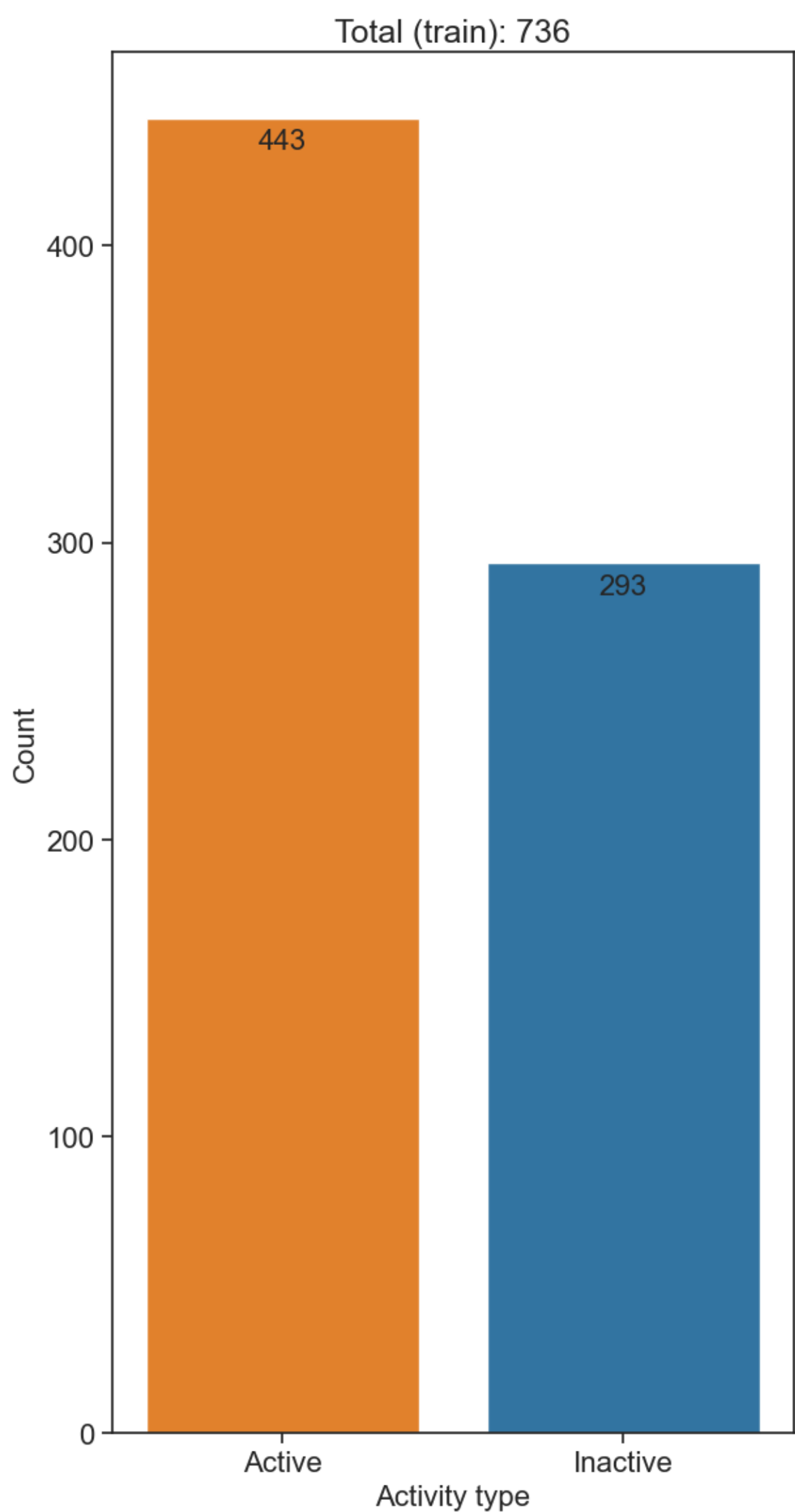


XGBoost Parameters	Value	
alpha	3.0111	
colsample_bytree	0.6001	
gamma	0.5059	
lambda	4.8668	
learning_rate	0.0931	
max_depth	9.0	
min_child_weight	1.0	
n_estimators	169.0	
reg_alpha	0.6445	
reg_lambda	0.9401	
scale_pos_weight	1.8423	
subsample	0.9915	

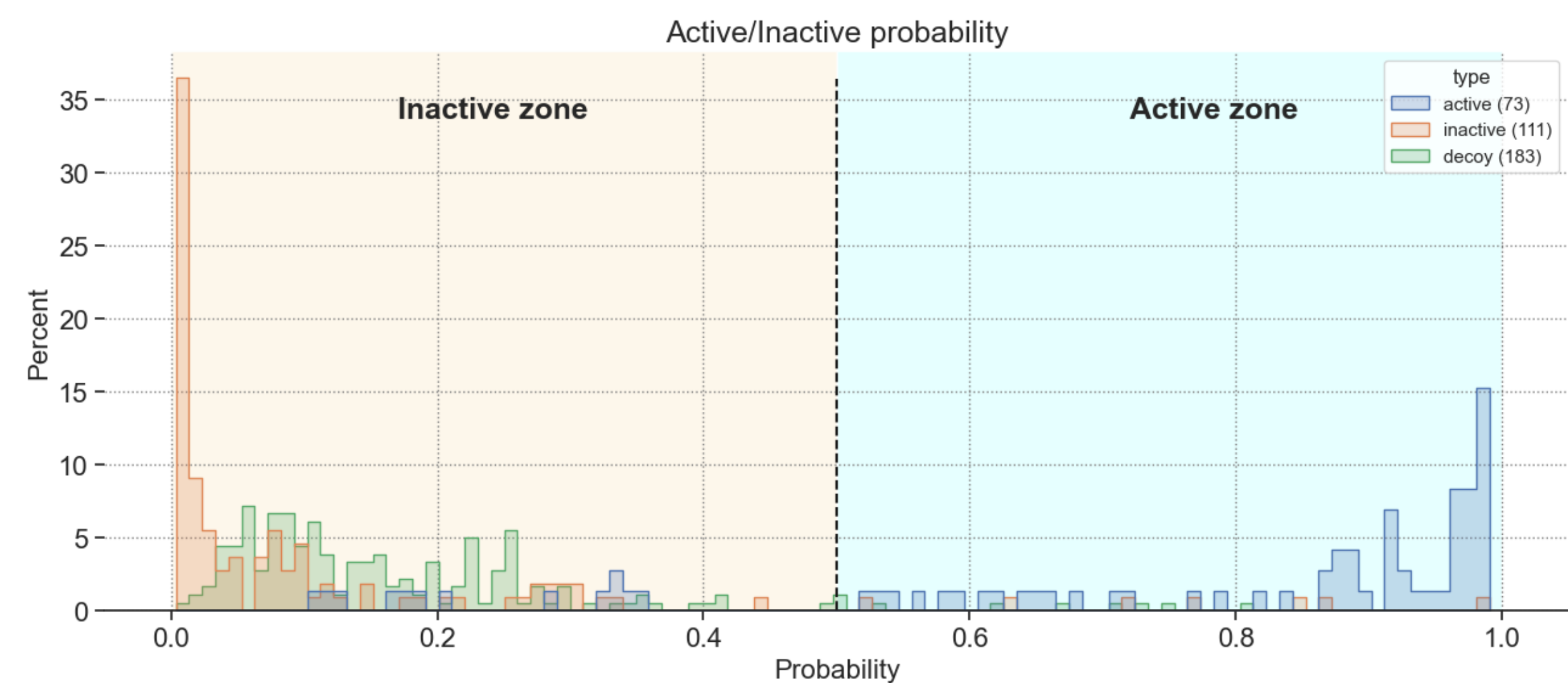
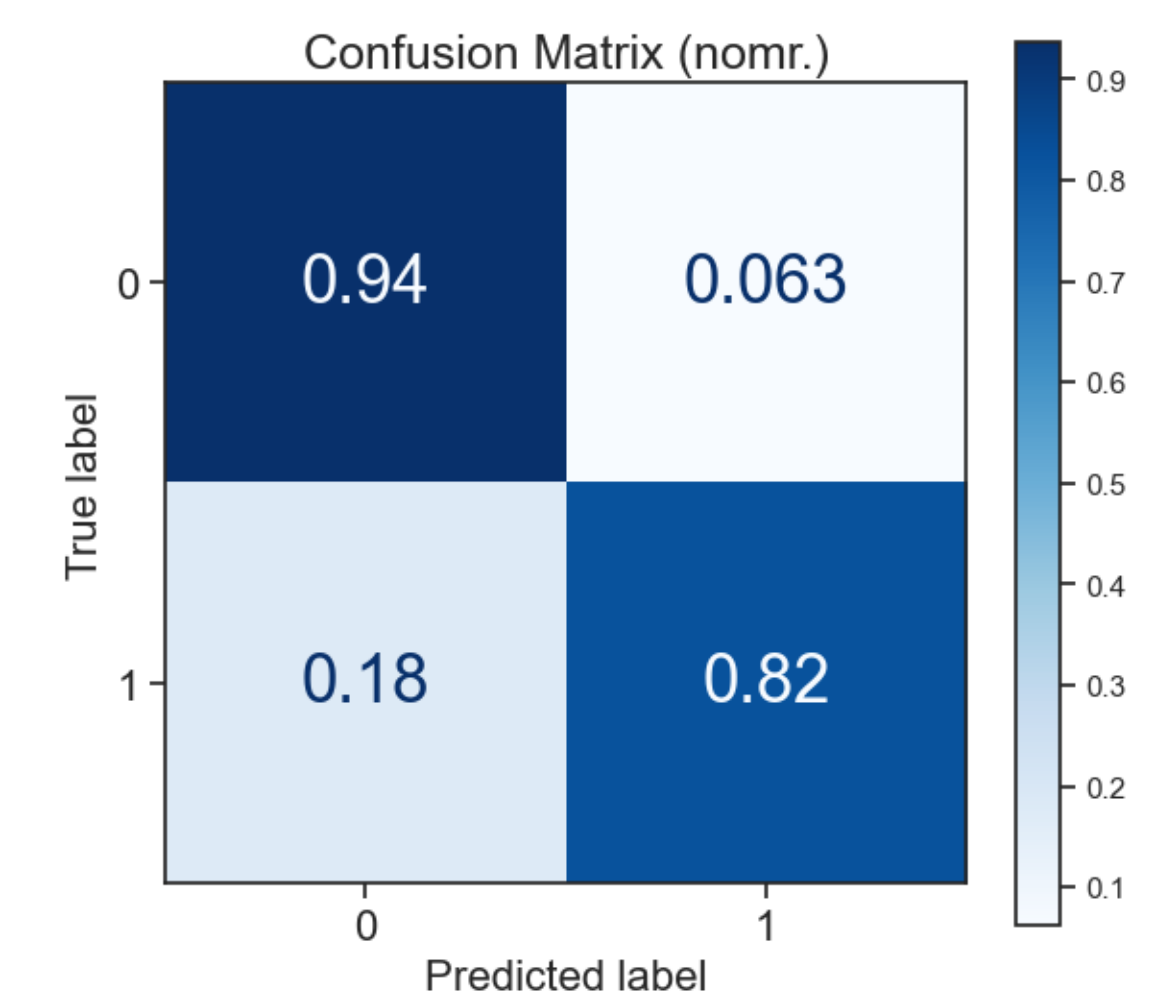
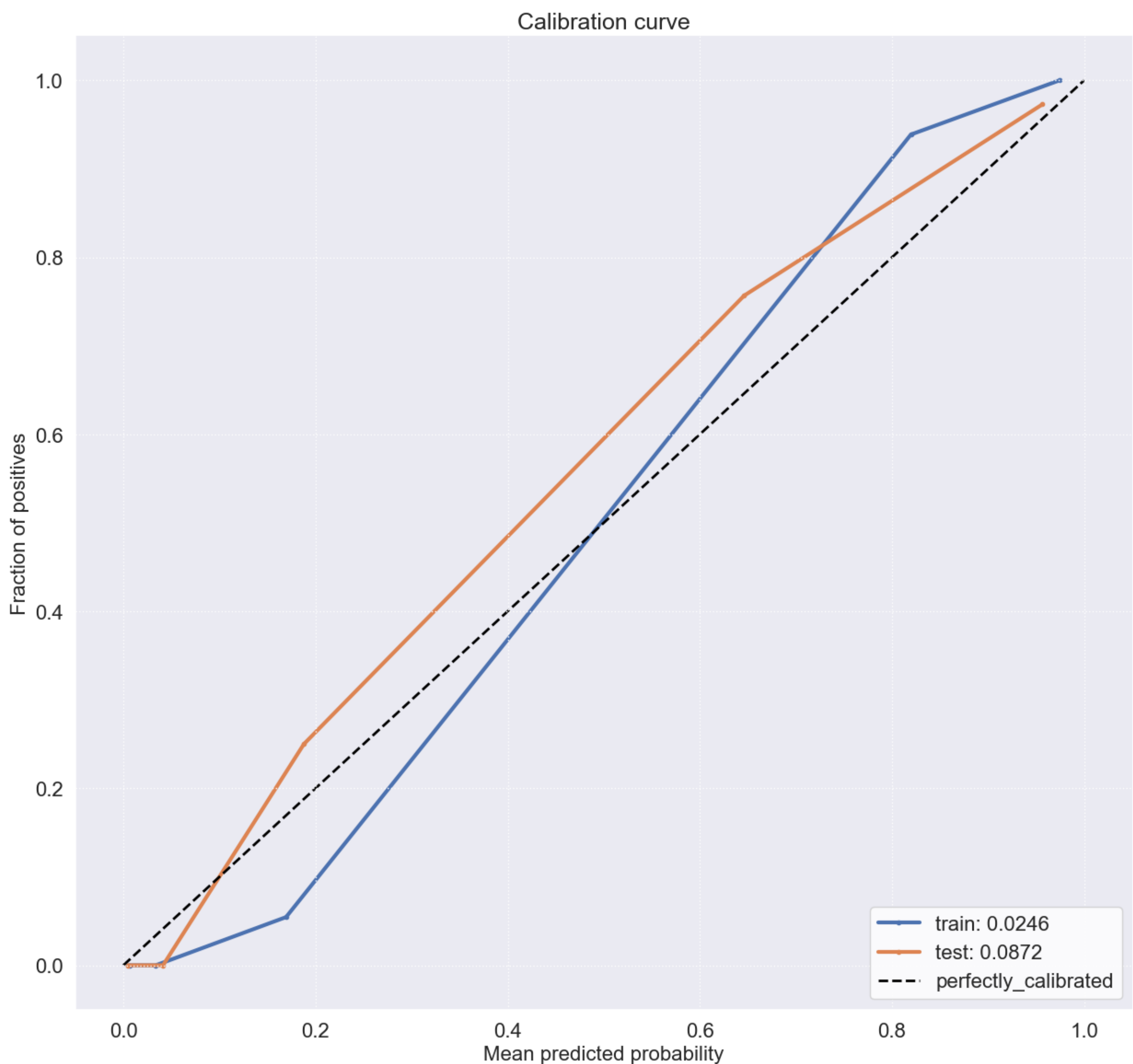
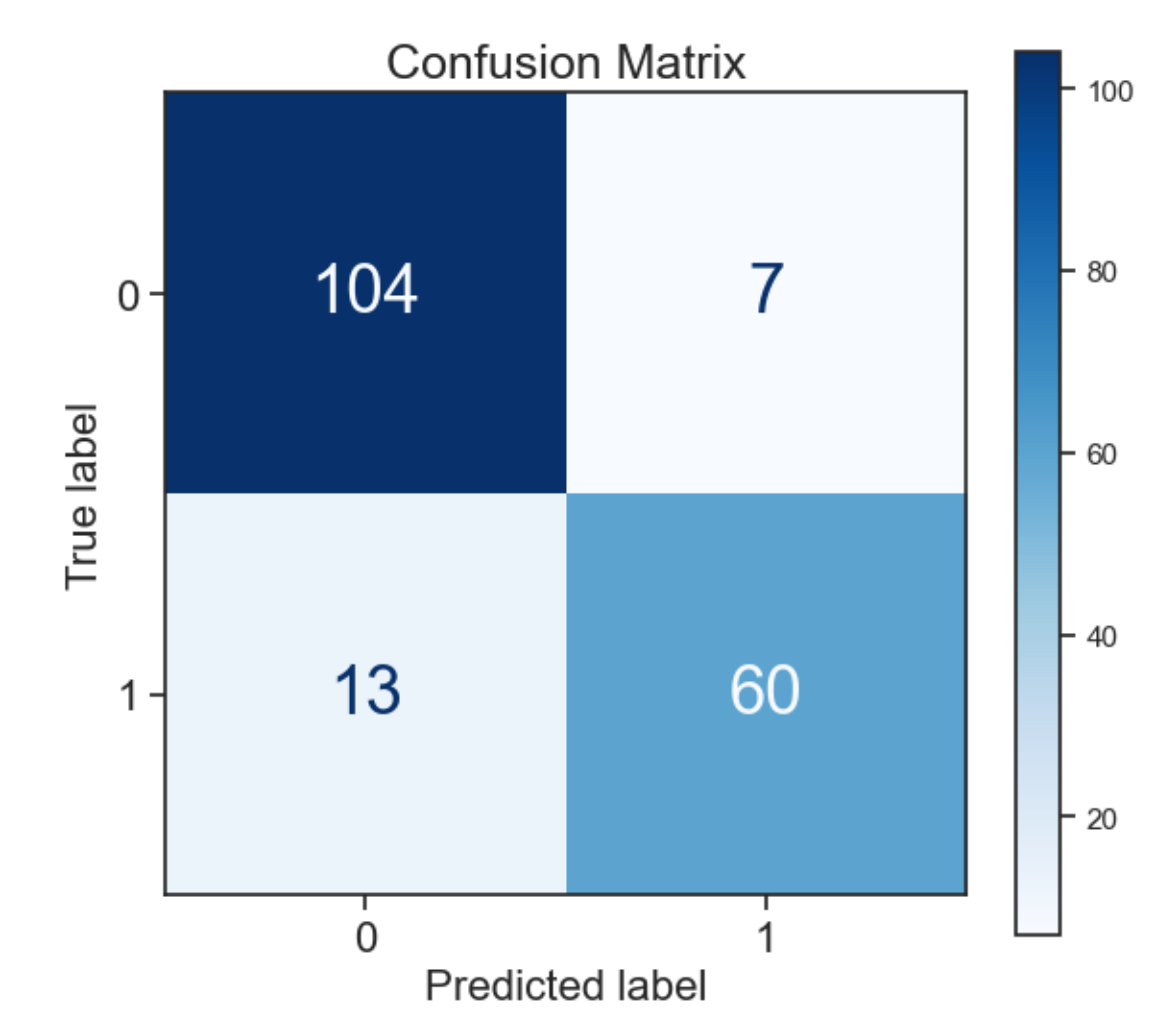


Metric	Train	Test
AUC	0.9965	0.9461
accuracy	0.9647	0.875
balanced accuracy	0.966	0.8683
recall_(sens)	0.9727	0.8356
specificity	0.9594	0.9009
precision	0.9406	0.8472
f1_score	0.9648	0.8748

Protein: P25100 - metric: precision

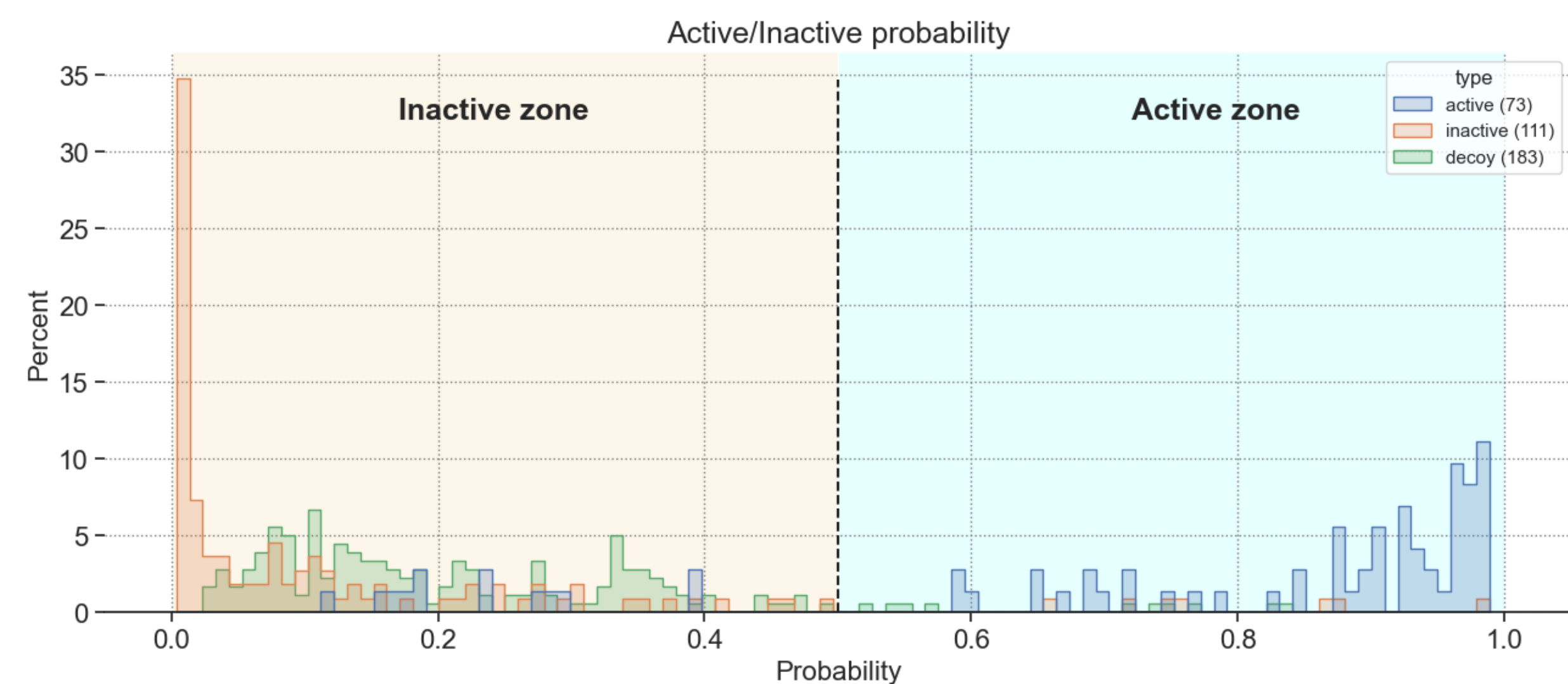
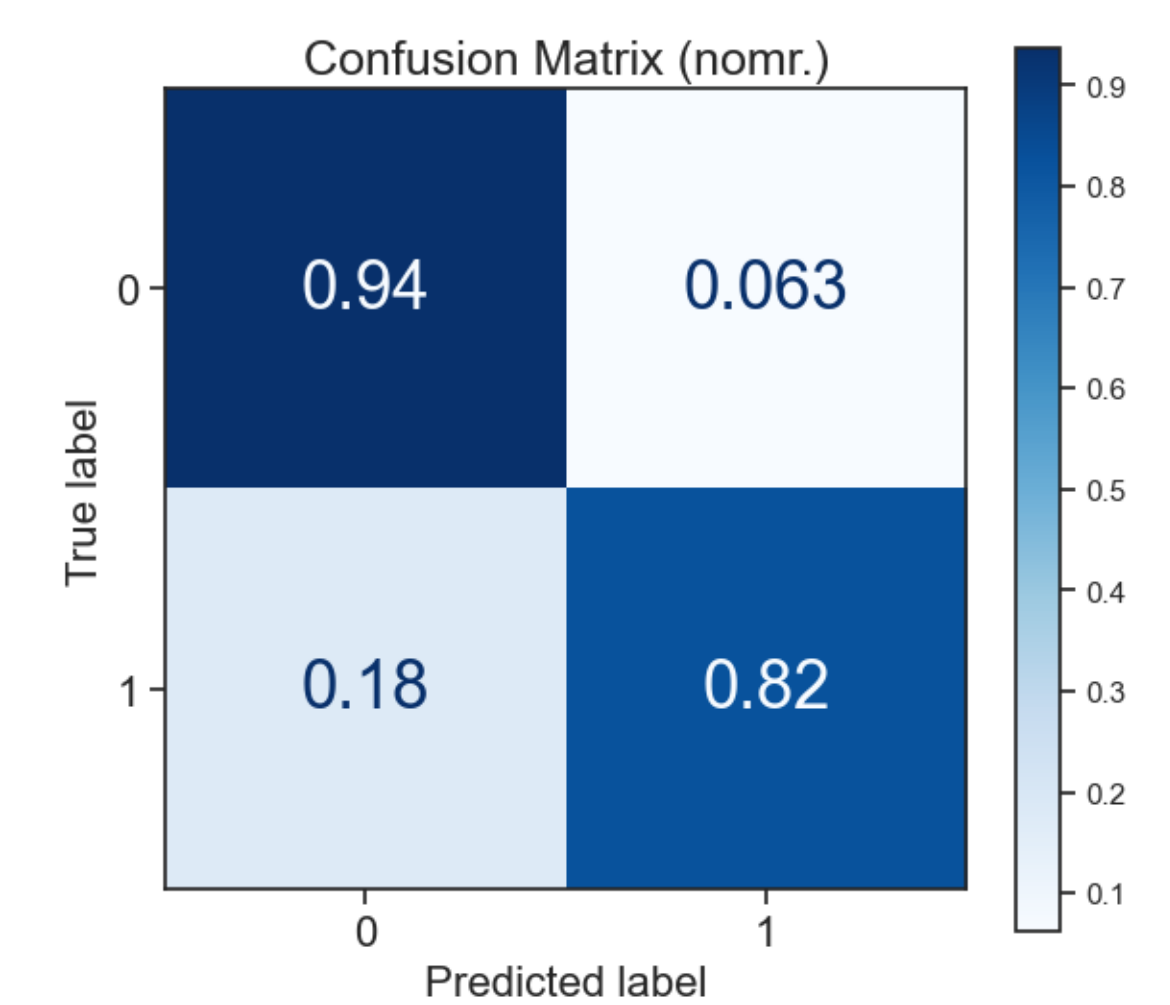
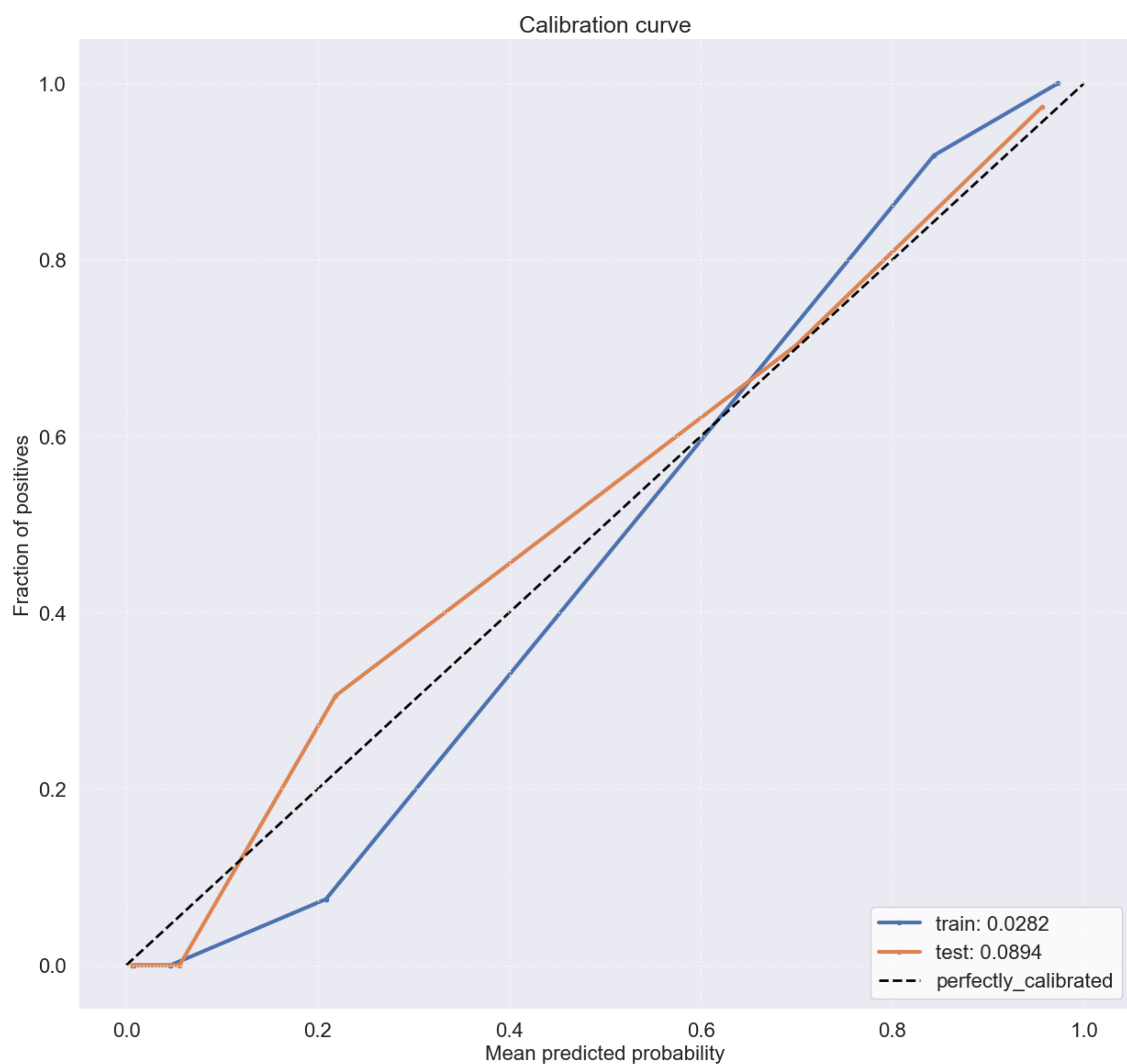
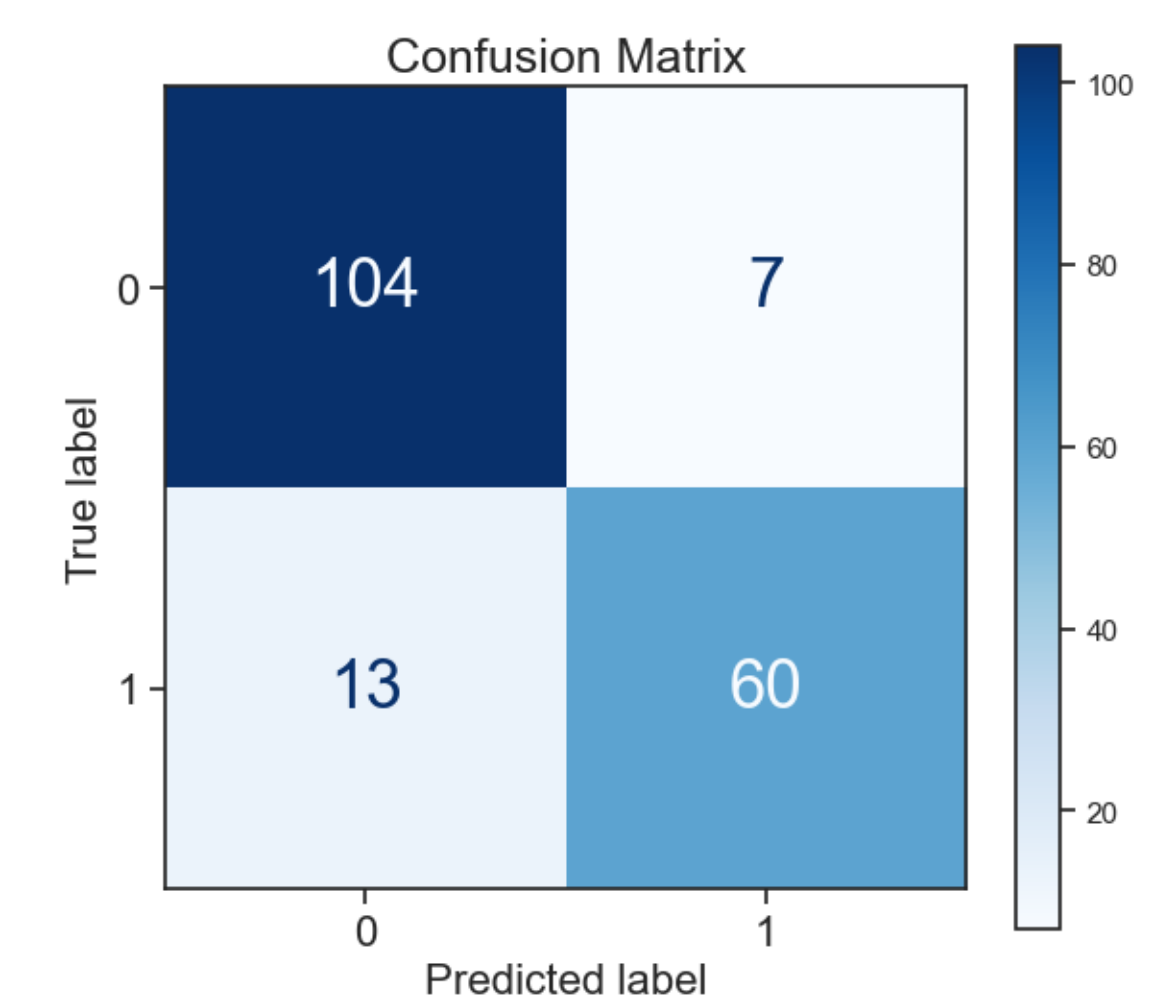
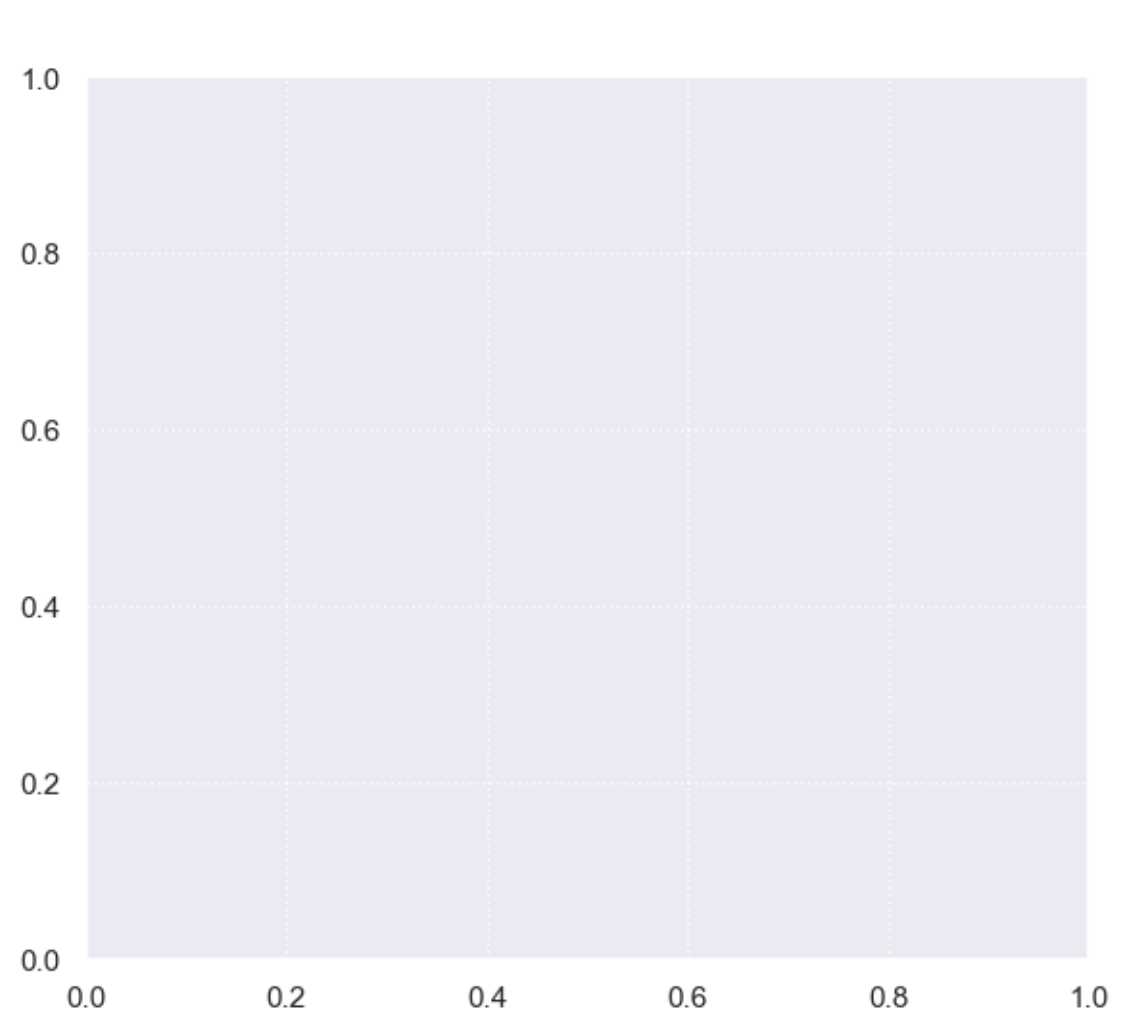
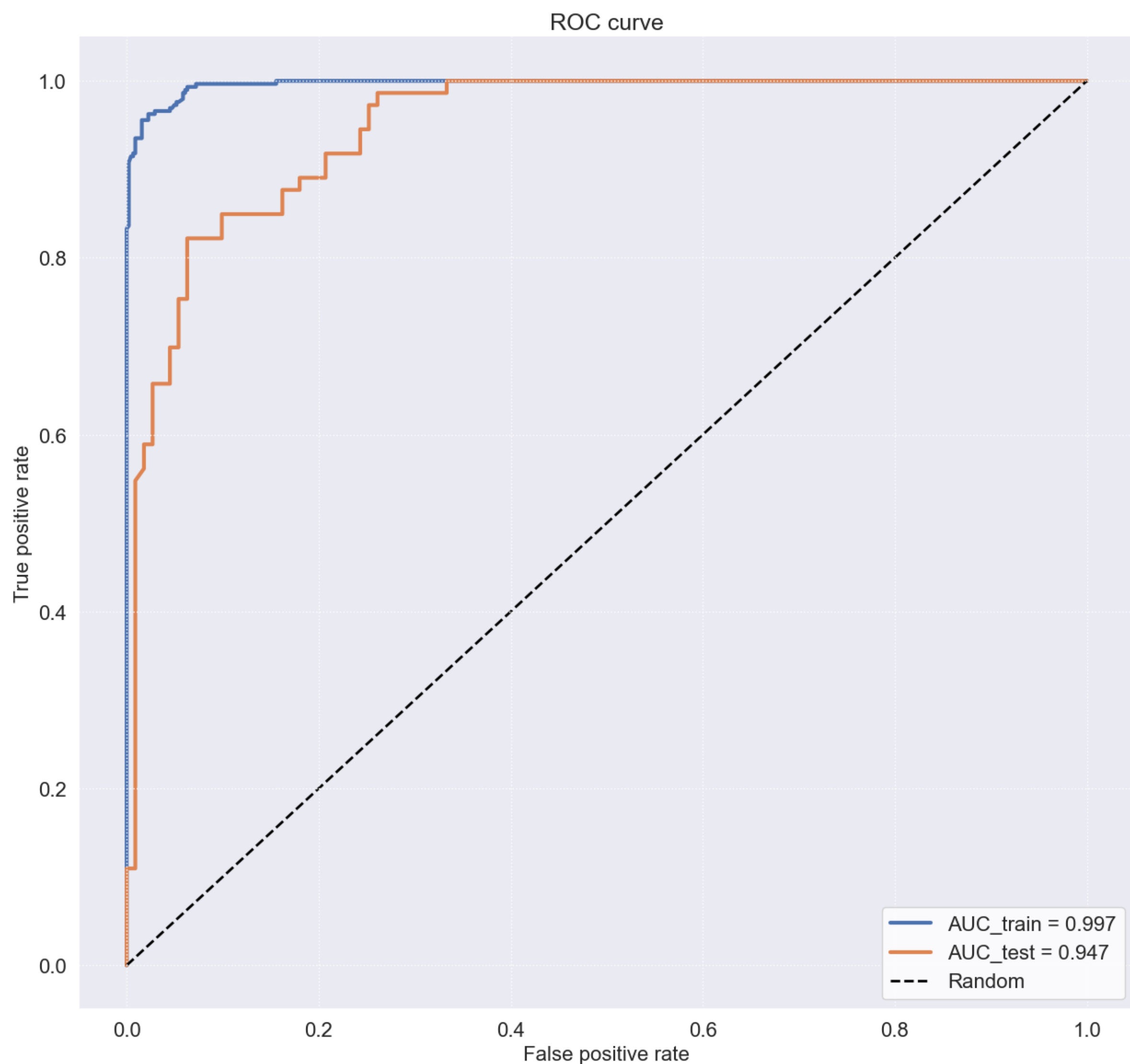
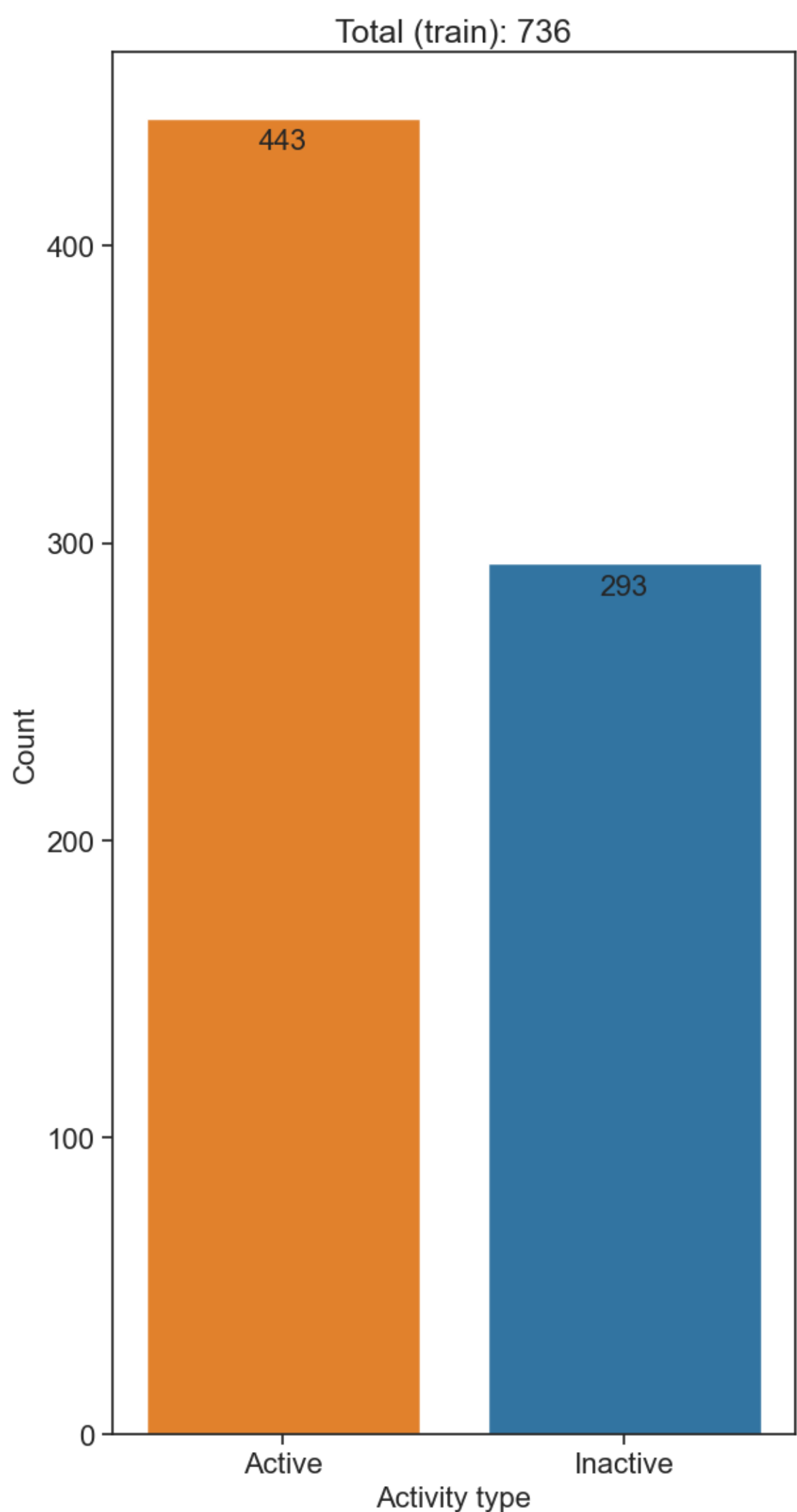


XGBoost Parameters	Value
alpha	3.3533
colsample_bytree	0.6315
gamma	0.2572
lambda	2.6961
learning_rate	0.0058
max_depth	10.0
min_child_weight	1.0
n_estimators	977.0
reg_alpha	0.1646
reg_lambda	0.1431
scale_pos_weight	1.0473
subsample	0.683



Metric	Train	Test
AUC	0.9976	0.9551
accuracy	0.9728	0.8913
balanced accuracy	0.9699	0.8794
recall_(sens)	0.9556	0.8219
specificity	0.9842	0.9369
precision	0.9756	0.8955
f1_score	0.9728	0.8904

Protein: P25100 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9968	0.9474
accuracy	0.9688	0.8913
balanced accuracy	0.9677	0.8794
recall_(sens)	0.9625	0.8219
specificity	0.9729	0.9369
precision	0.9592	0.8955
f1_score	0.9688	0.8904