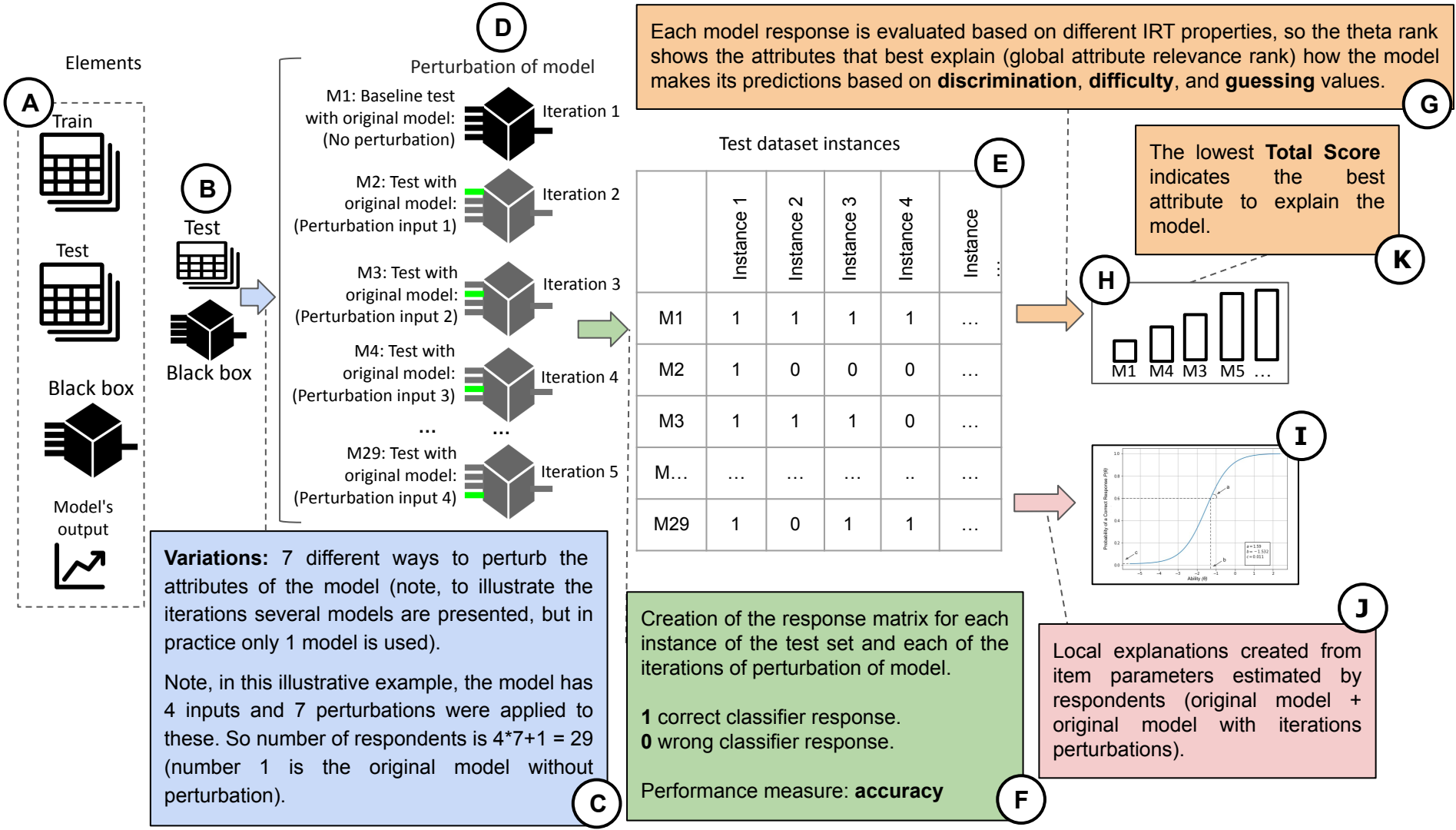
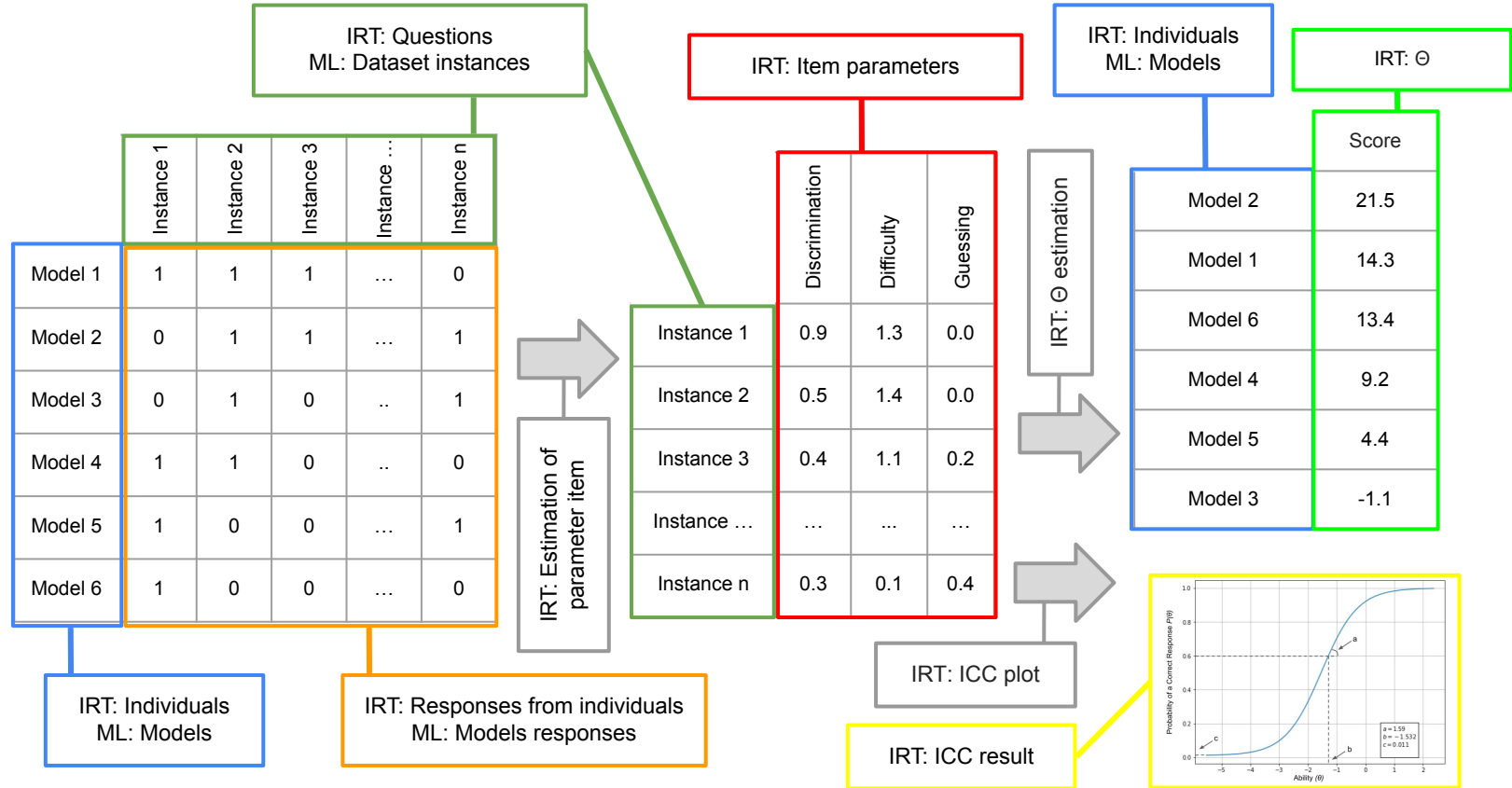


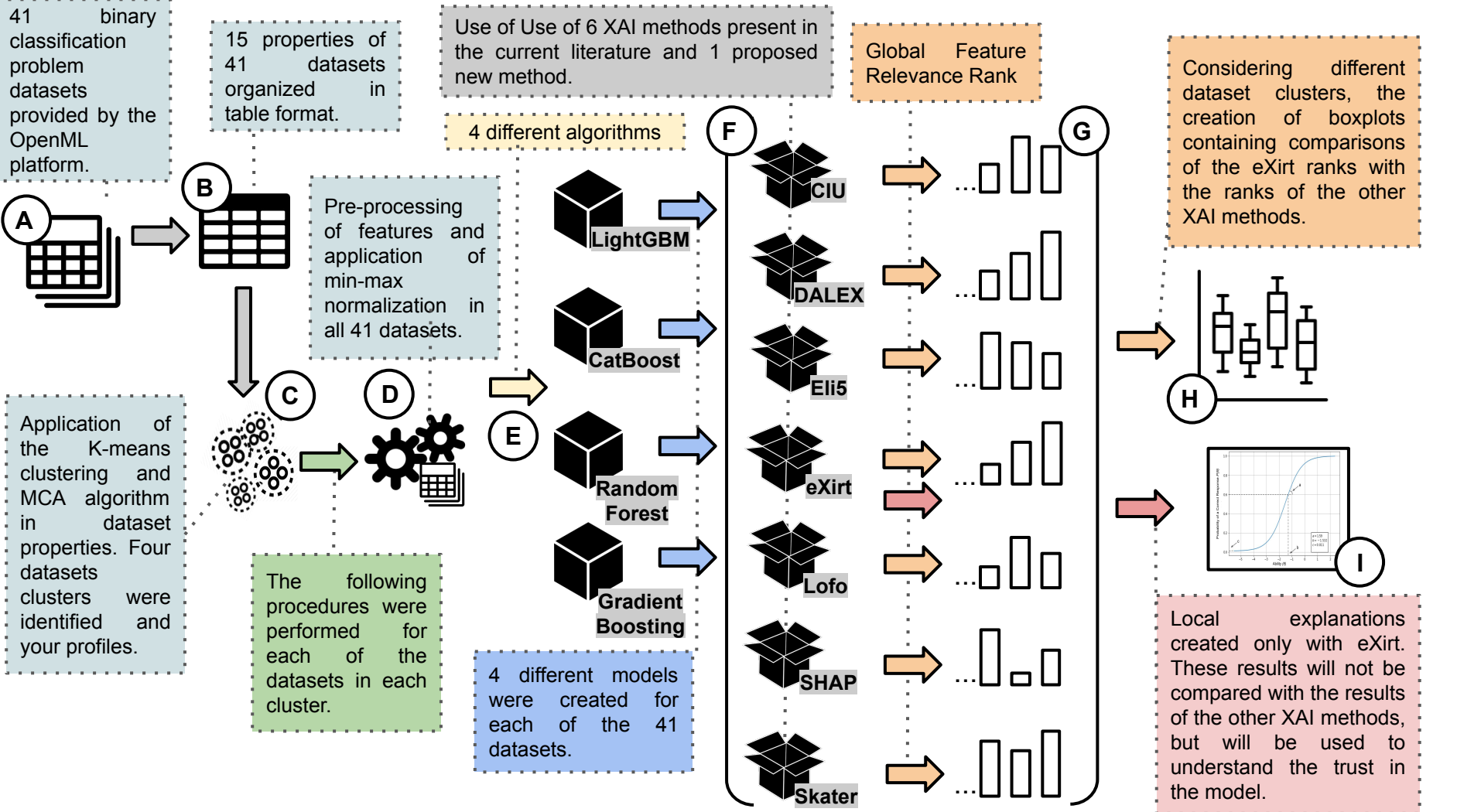
# **Supplementary Material Referring to the Illustrations**

Paper: Explanations Based on Item Response Theory (eXirt):  
A Model-Specific Method to Explain Tree-Ensemble  
Model in Trust Perspective

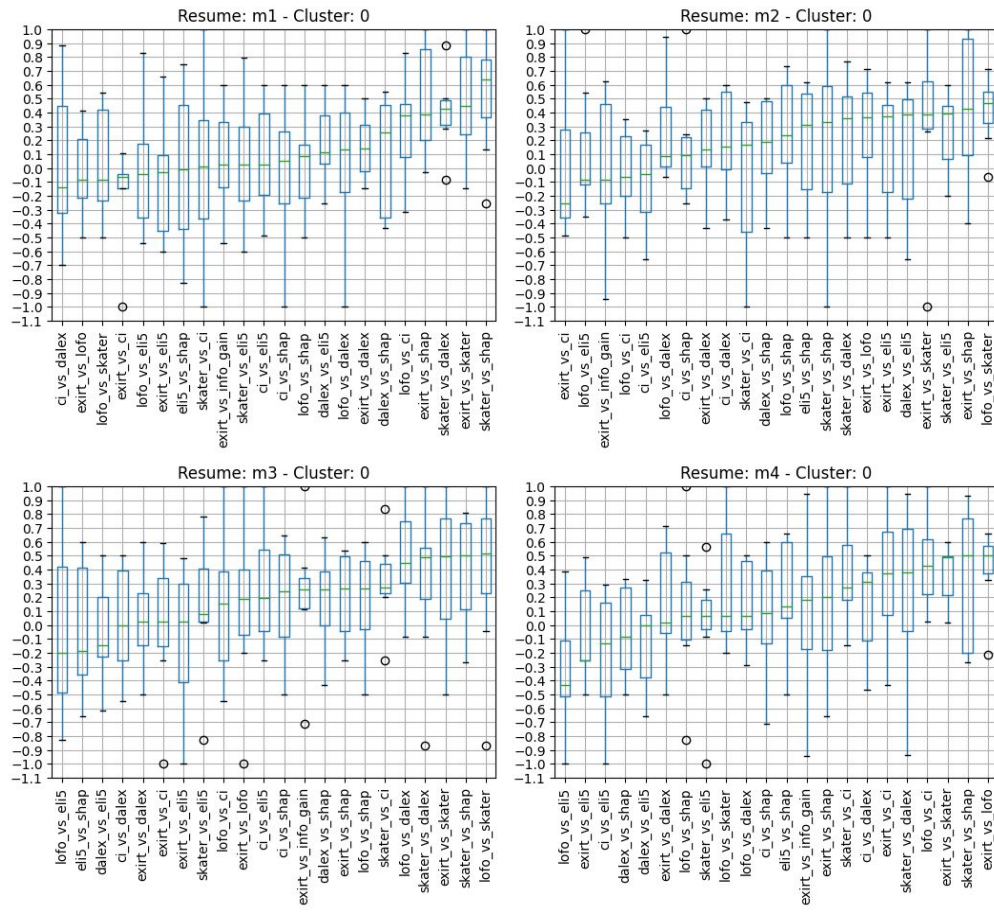


# Relationship of the terms of IRT and ML

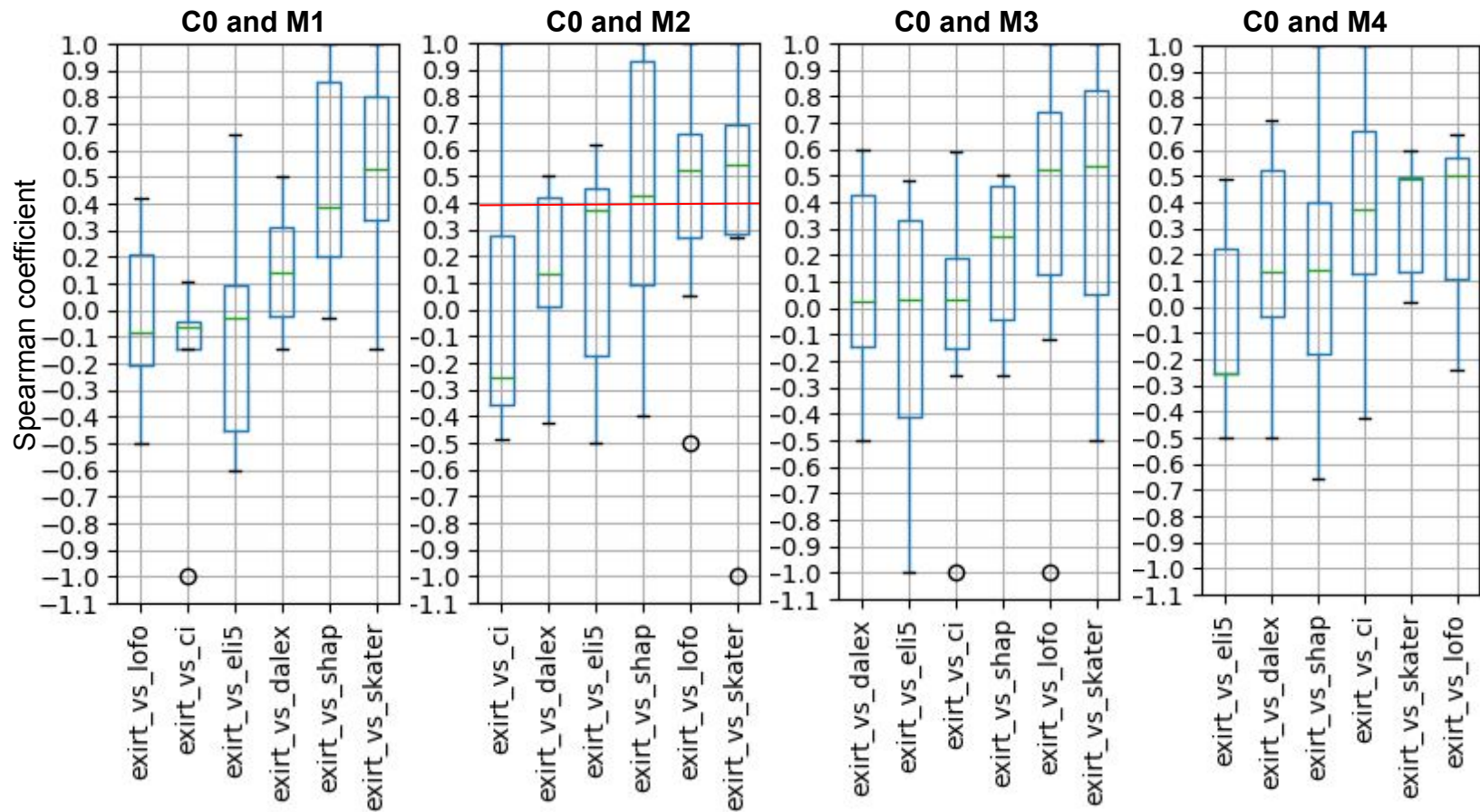




# All pair comparisons of feature relevance ranks for models (M1 to M4) based on cluster 0 datasets

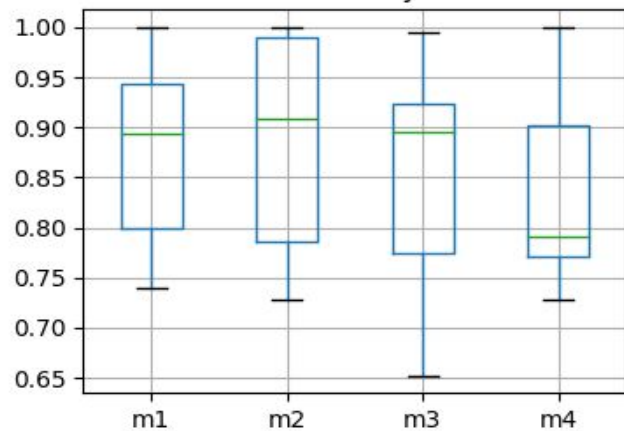


# Only *eXirt* comparisons of feature relevance ranks for models (M1 to M4) based on cluster 0 datasets

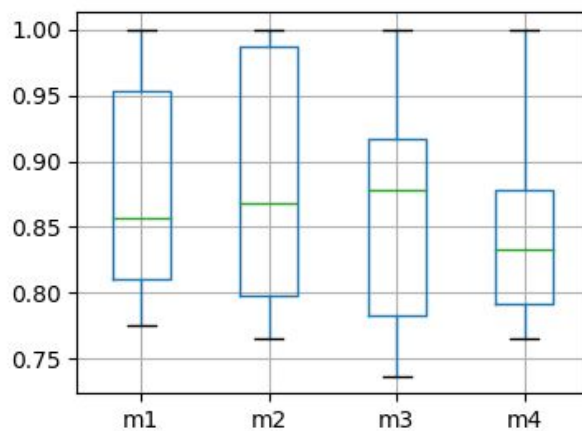


## Data regarding the performance of models M1 to M4 based on cluster 0 datasets

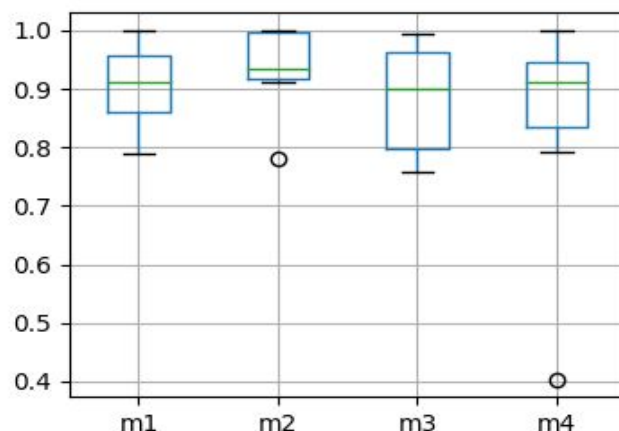
Resume of Accuracy - Cluster: 0



Resume of Precision - Cluster: 0

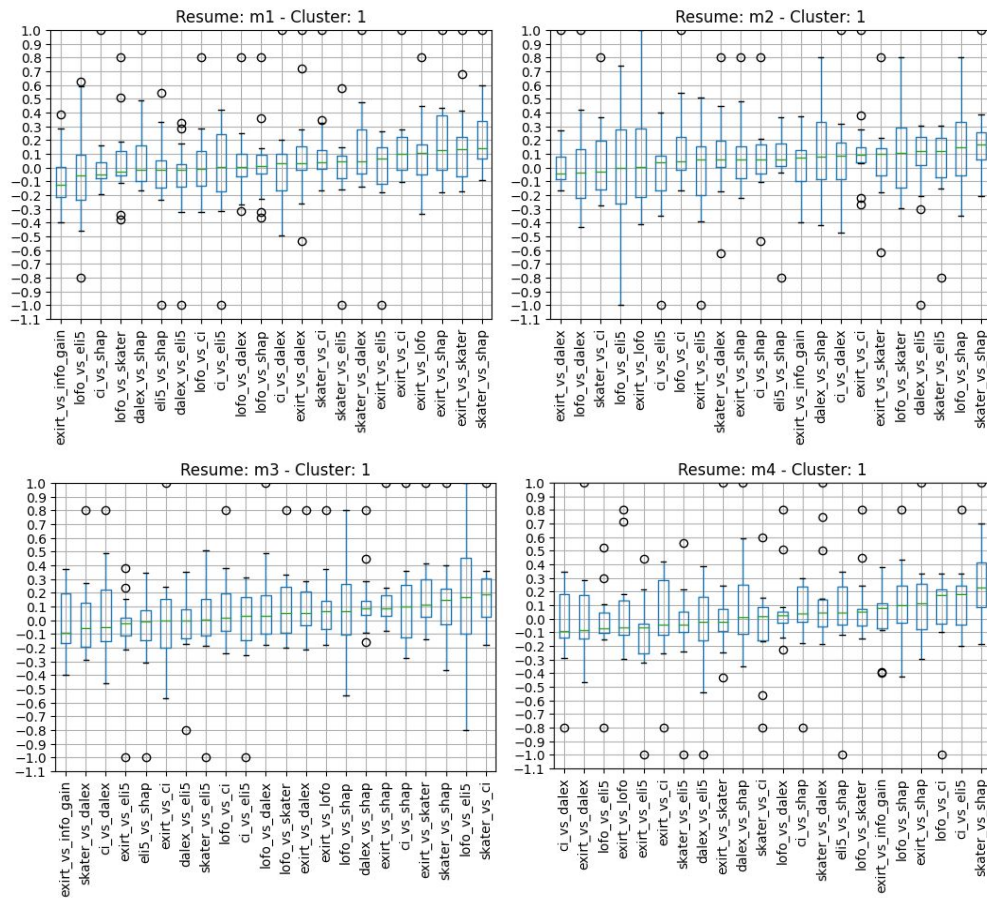


Resume of Recall - Cluster: 0



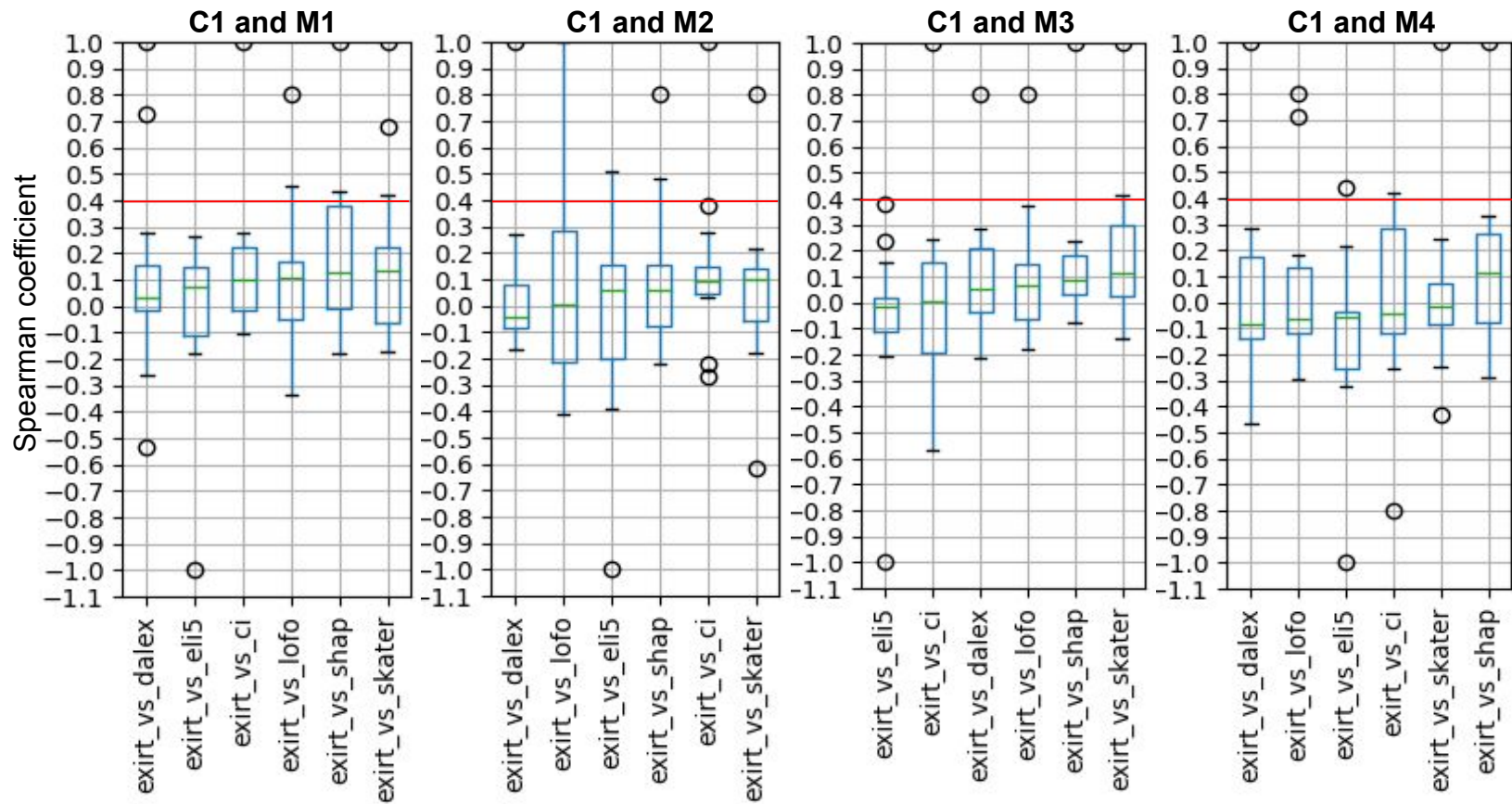


# All pair comparisons of feature relevance ranks for models (M1 to M4) based on cluster 1 datasets



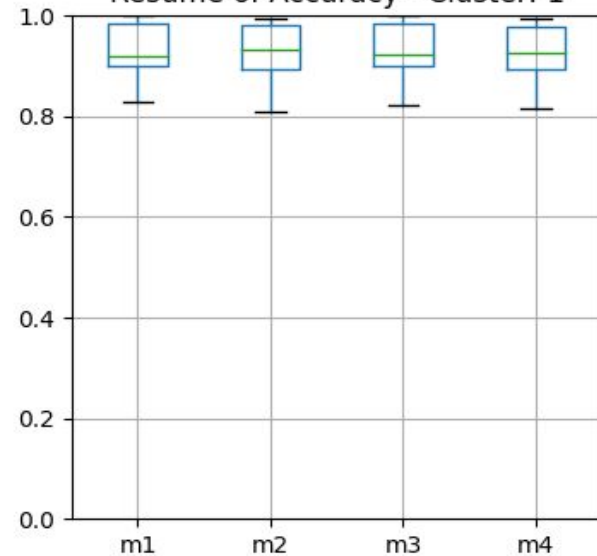


# Only *eXirt* comparisons of feature relevance ranks for models (M1 to M4) based on cluster 1 datasets

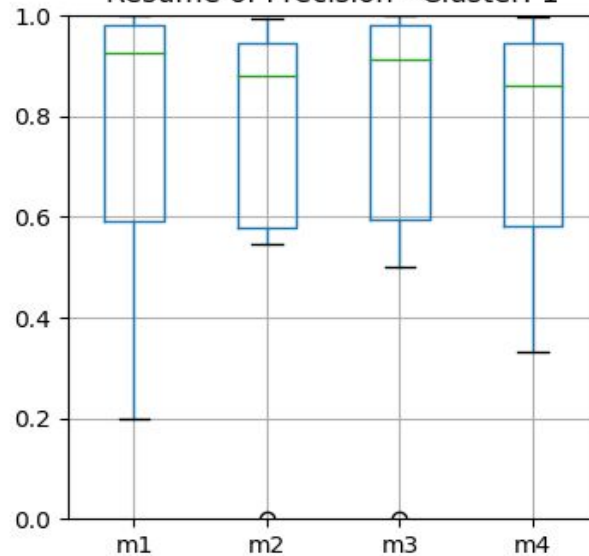


# Data regarding the performance of models M1 to M4 based on cluster 1 datasets

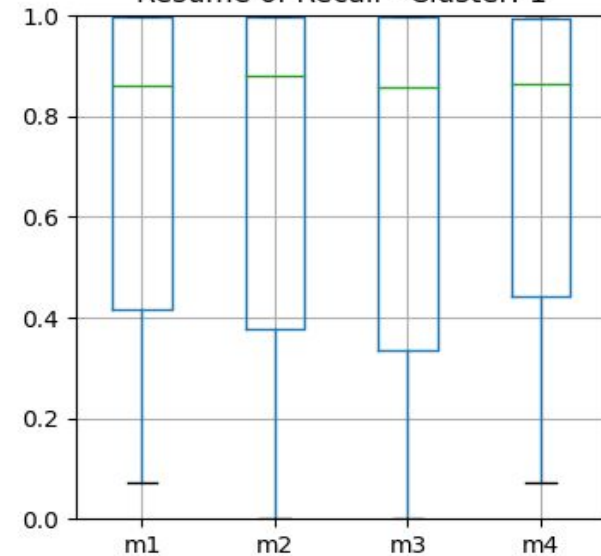
Resume of Accuracy - Cluster: 1



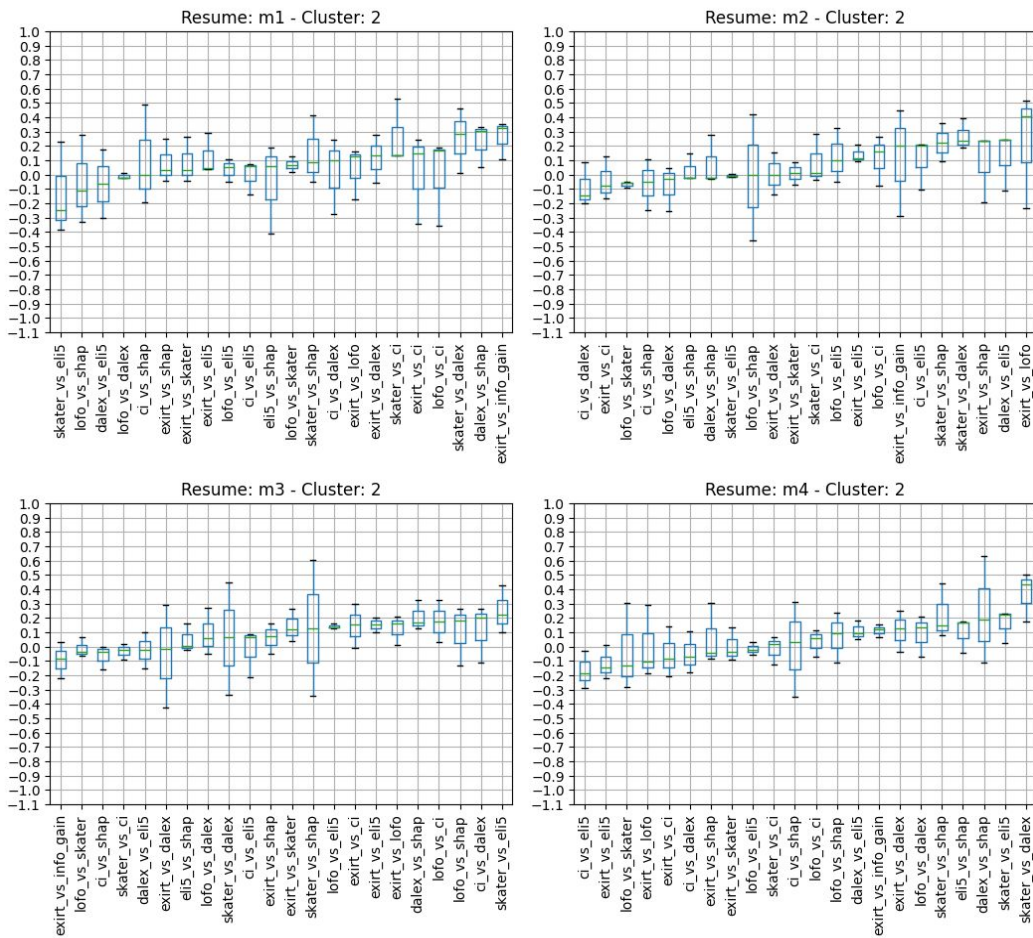
Resume of Precision - Cluster: 1



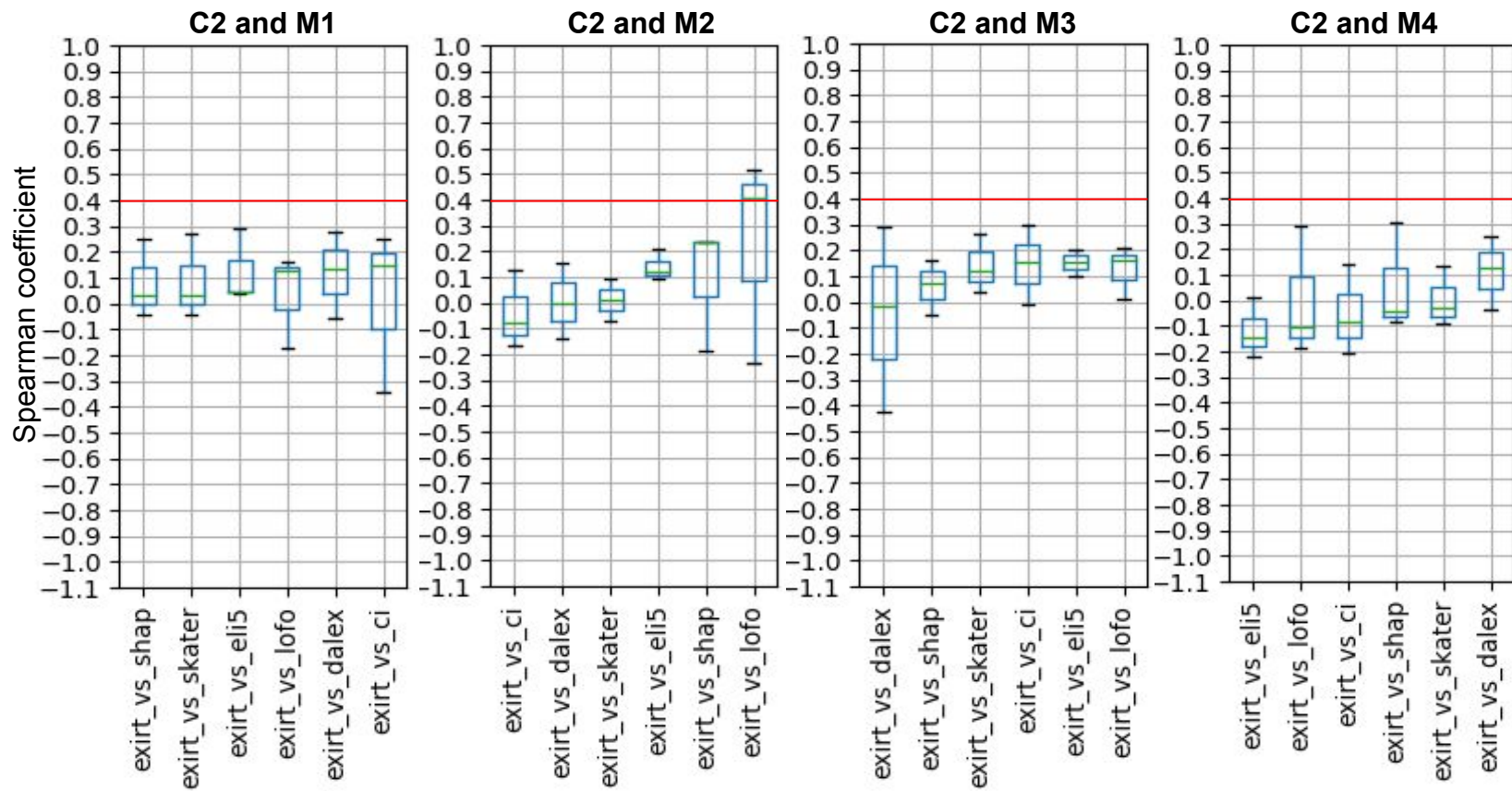
Resume of Recall - Cluster: 1



# All pair comparisons of feature relevance ranks for models (M1 to M4) based on cluster 2 datasets

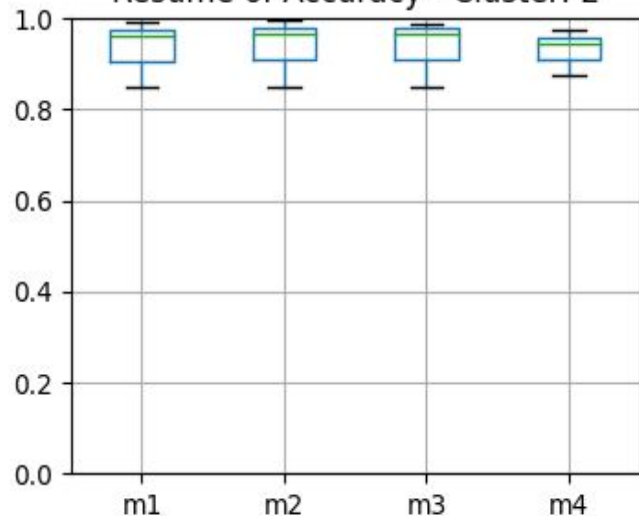


# Only *eXirt* comparisons of feature relevance ranks for models (M1 to M4) based on cluster 2 datasets

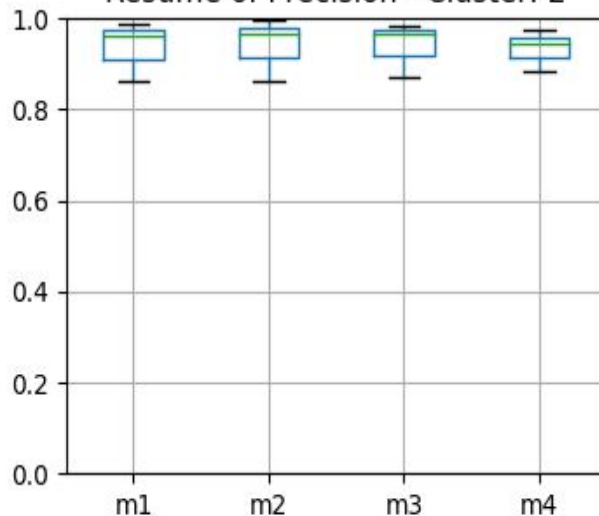


## Data regarding the performance of models M1 to M4 based on cluster 1 datasets

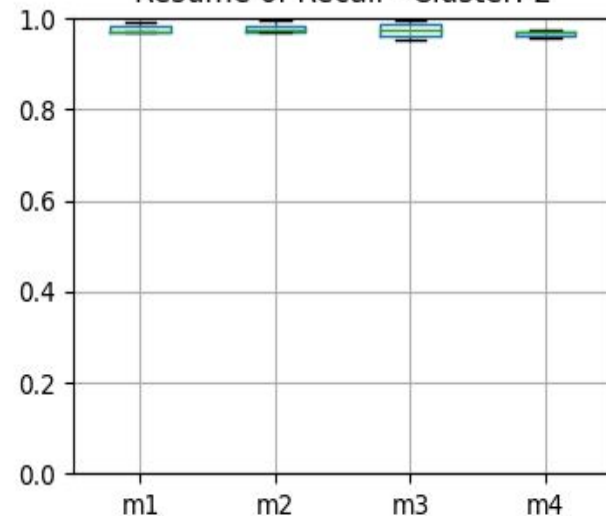
Resume of Accuracy - Cluster: 2



Resume of Precision - Cluster: 2

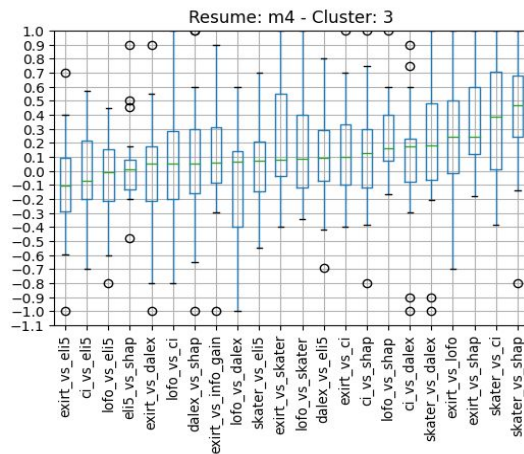
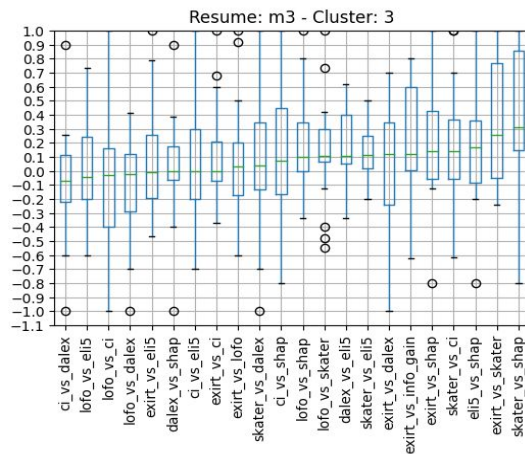
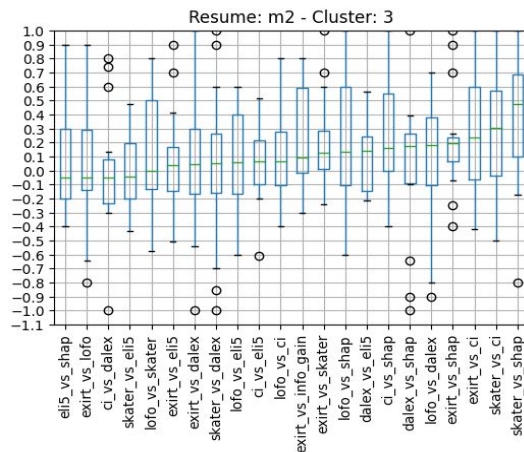
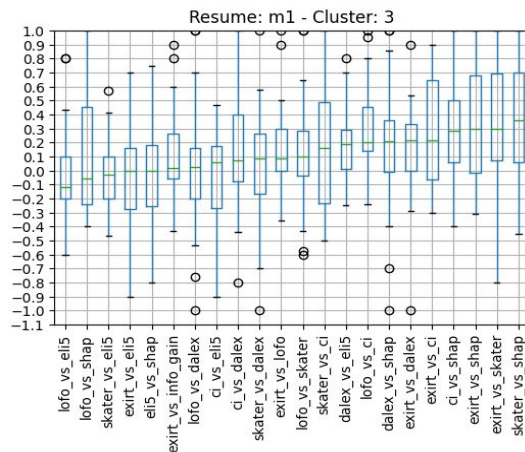


Resume of Recall - Cluster: 2

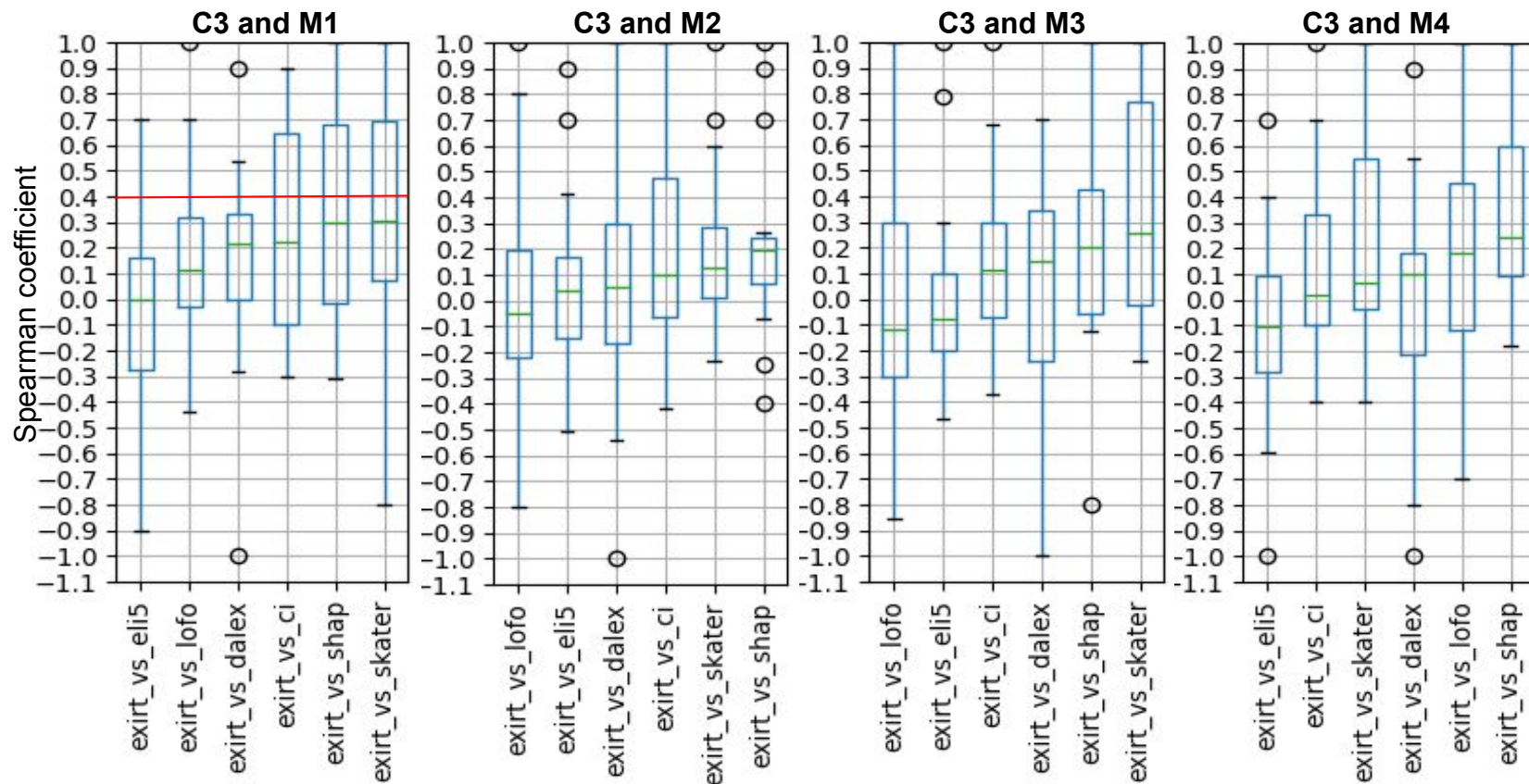




# All pair comparisons of feature relevance ranks for models (M1 to M4) based on cluster 3 datasets



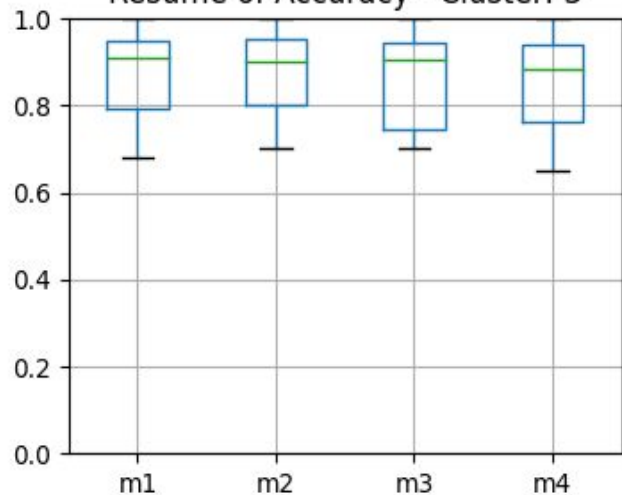
# Only *eXirt* comparisons of feature relevance ranks for models (M1 to M4) based on cluster 3 datasets



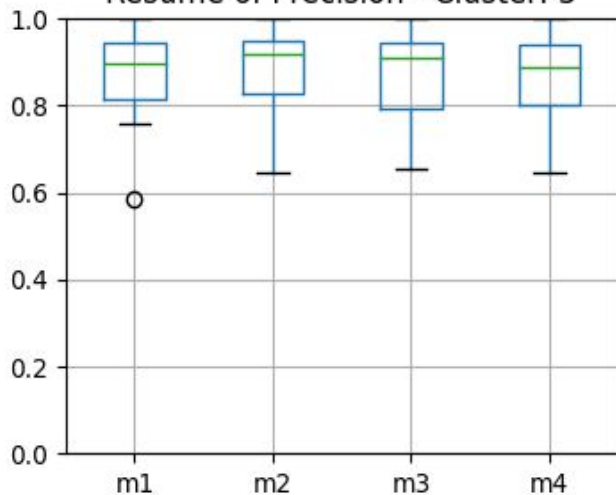


## Data regarding the performance of models M1 to M4 based on cluster 3 datasets

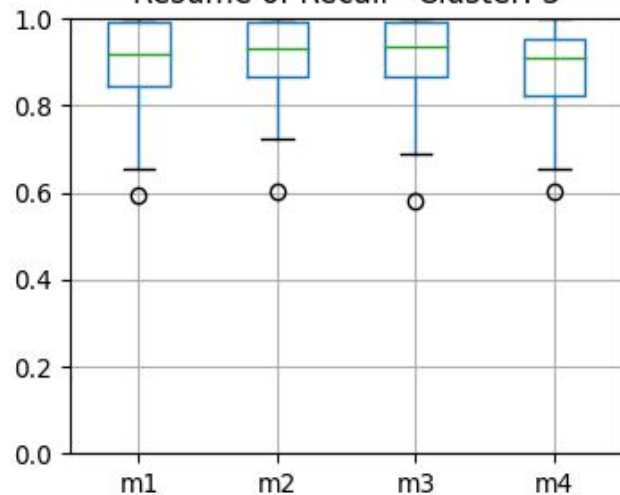
Resume of Accuracy - Cluster: 3



Resume of Precision - Cluster: 3



Resume of Recall - Cluster: 3



# Item Characteristic Curve of the credit-g dataset (test) for models M1 to M4

