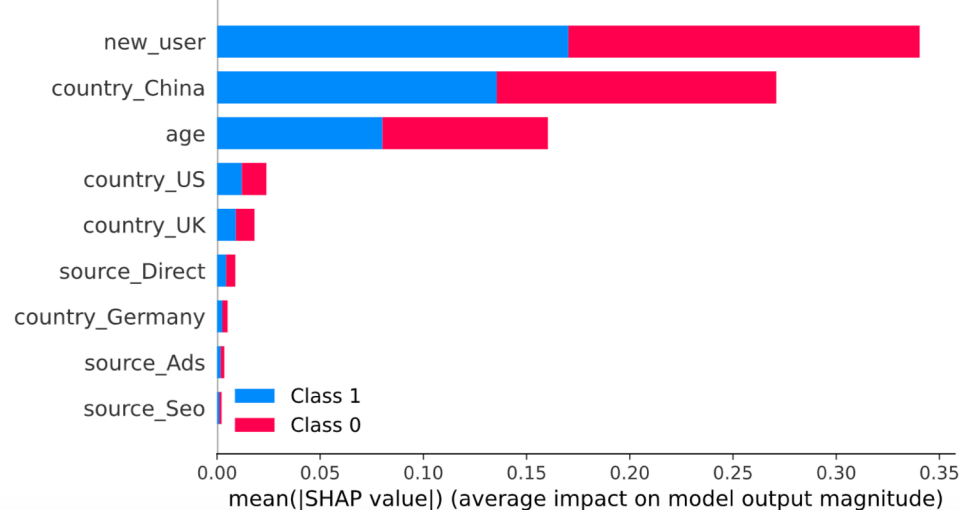
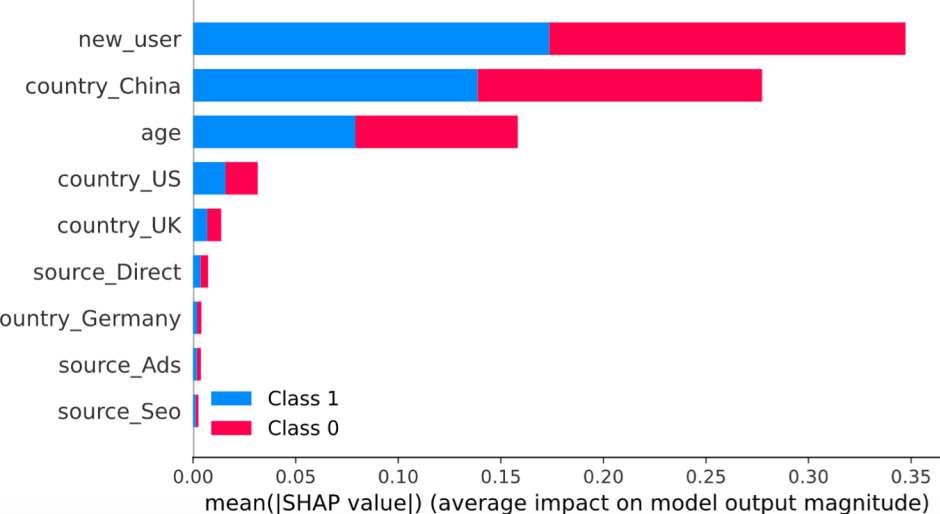
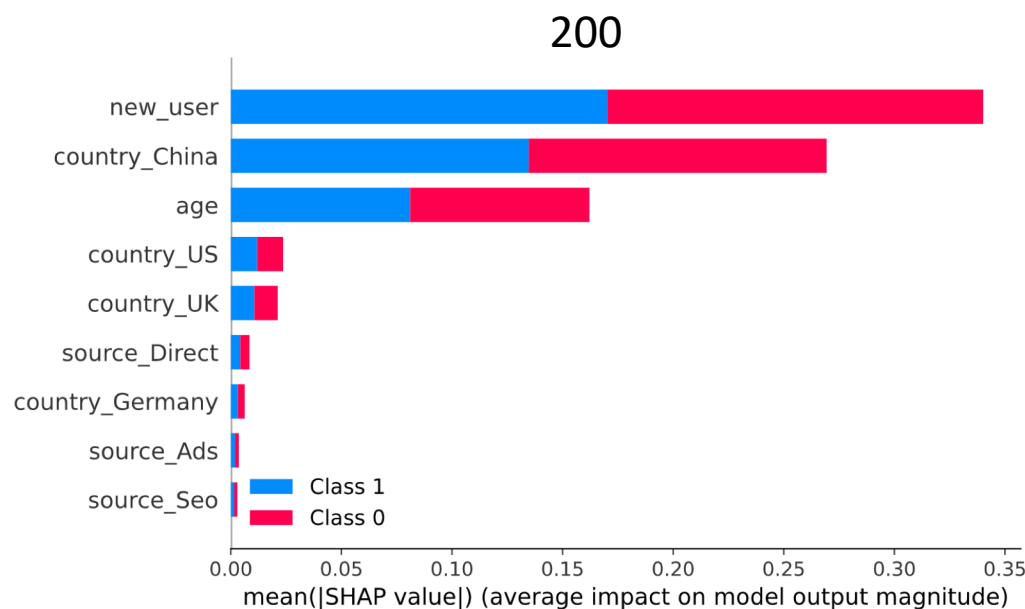
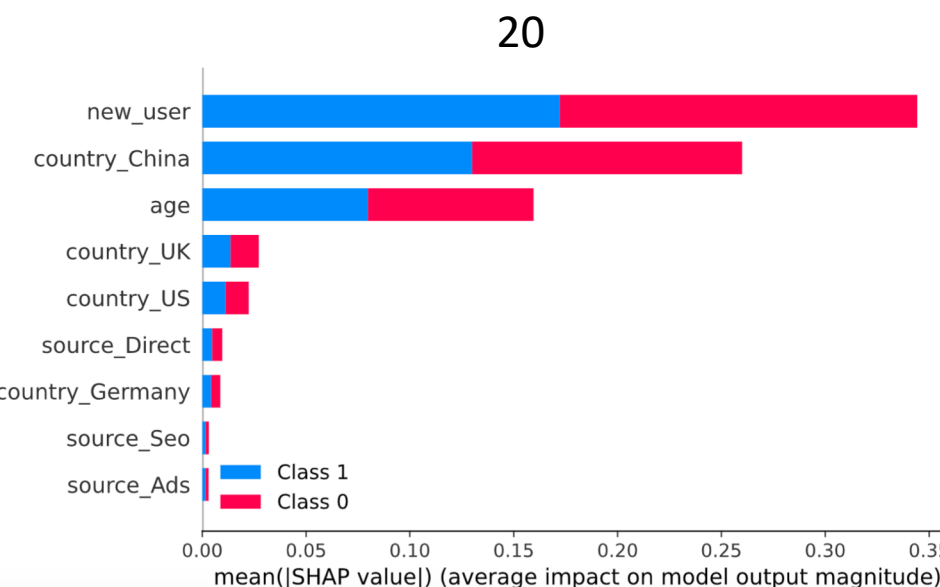


Feature importance is not stable when using a low number of trees.

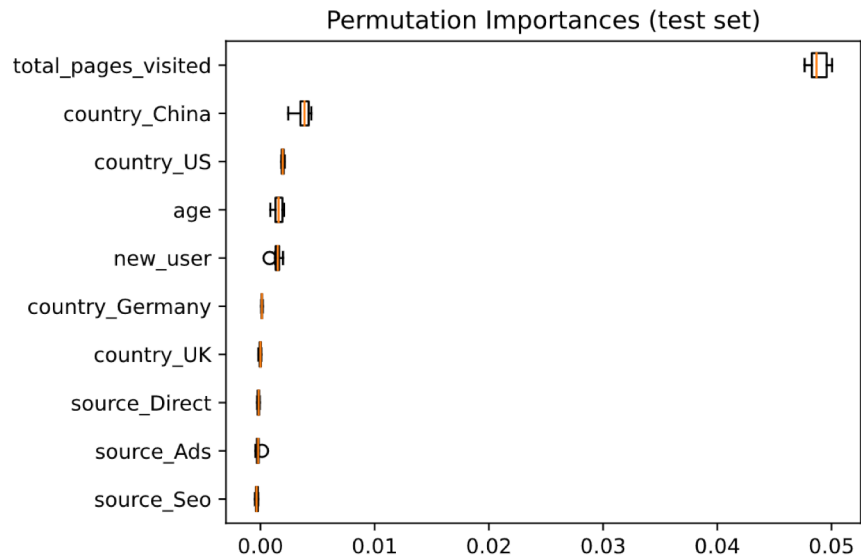


Test prop = 20%

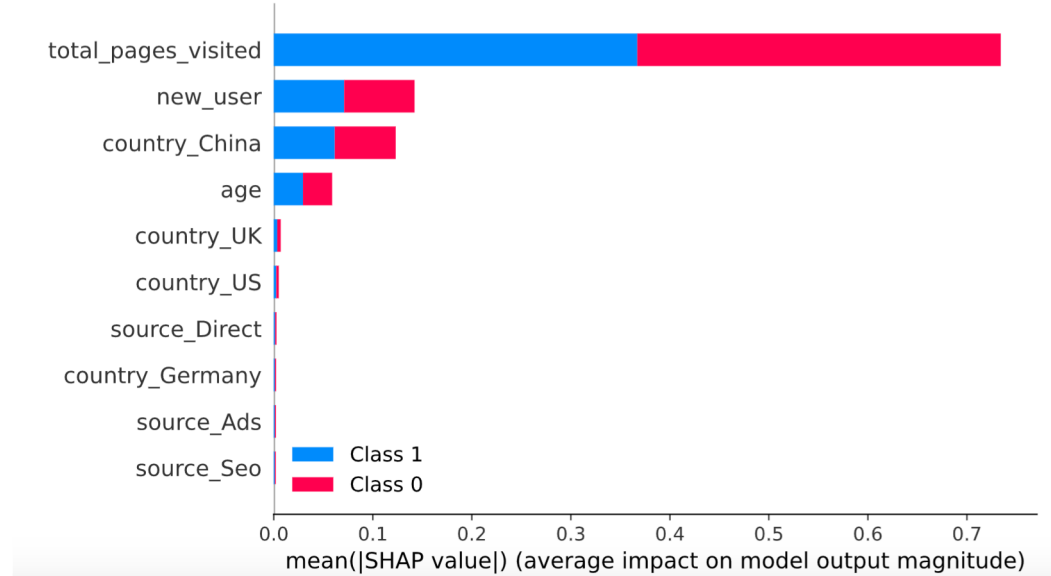


Test prop = 33%

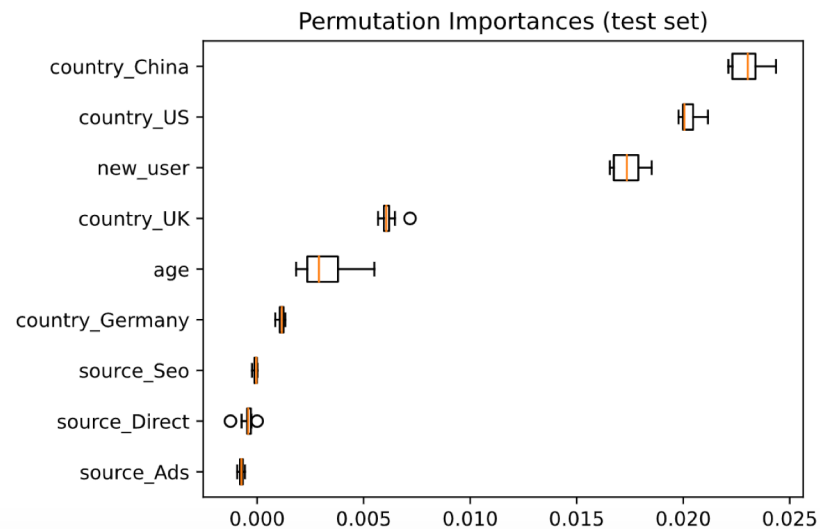
Compared with permutation importance, SHAP value is more robust to number of trees and splitting proportion



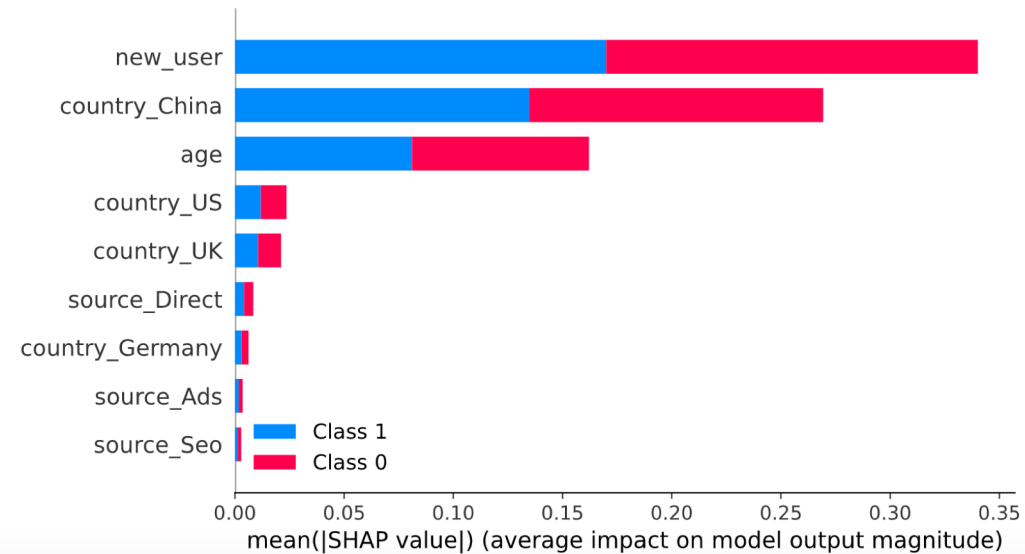
2000 estimator size 0.2 with full features



500 estimator size 0.2 with full features



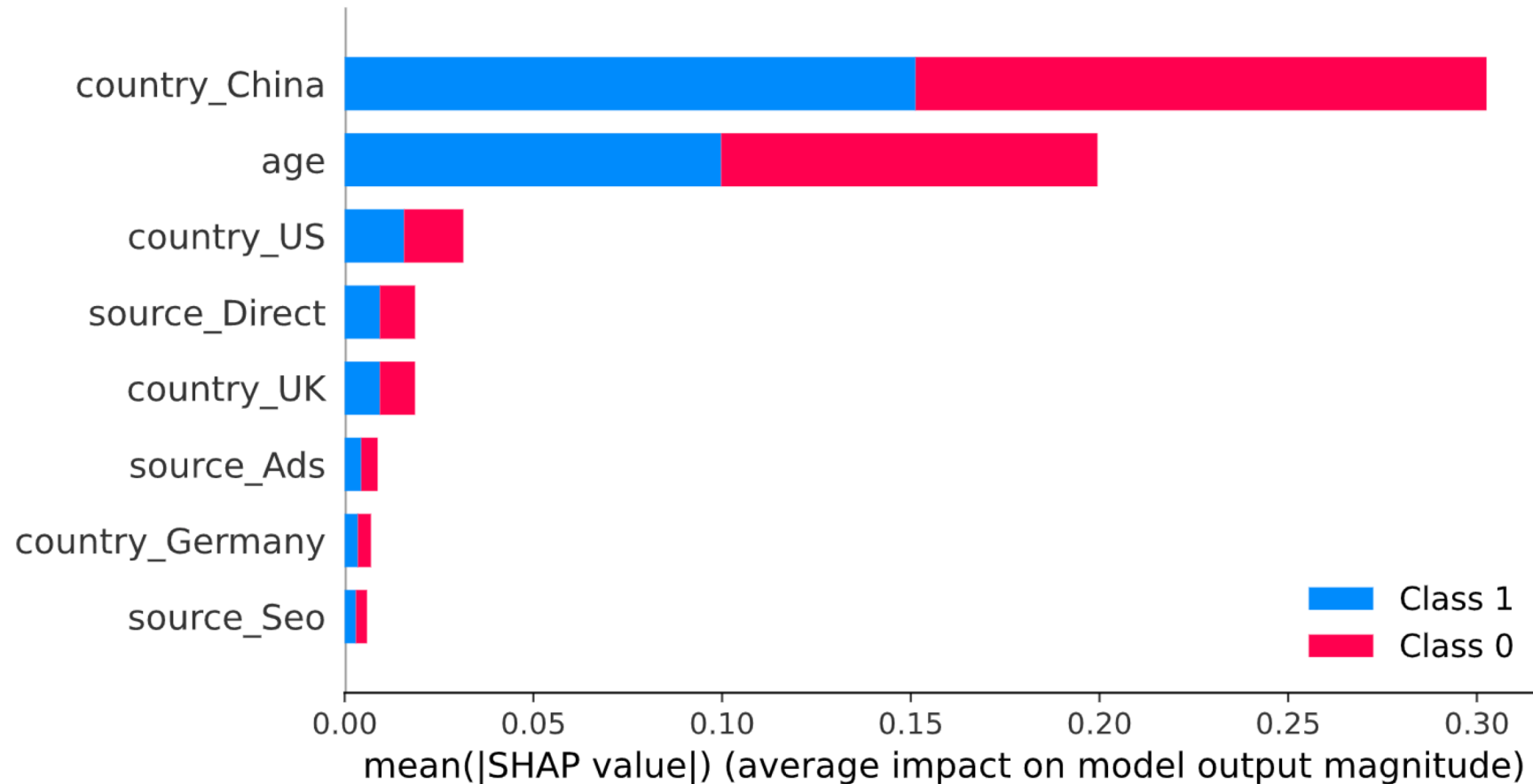
2000 estimator size 0.2 with total\_pages\_visited deleted



500 estimator size 0.2 with total\_pages\_visited\_deleted

The relative ranking of features using SHAP is not affected by which features are included.

# How about excluding more features?



The order stays the same.