S3: Single-Attribute Subgroup Size and Accuracy

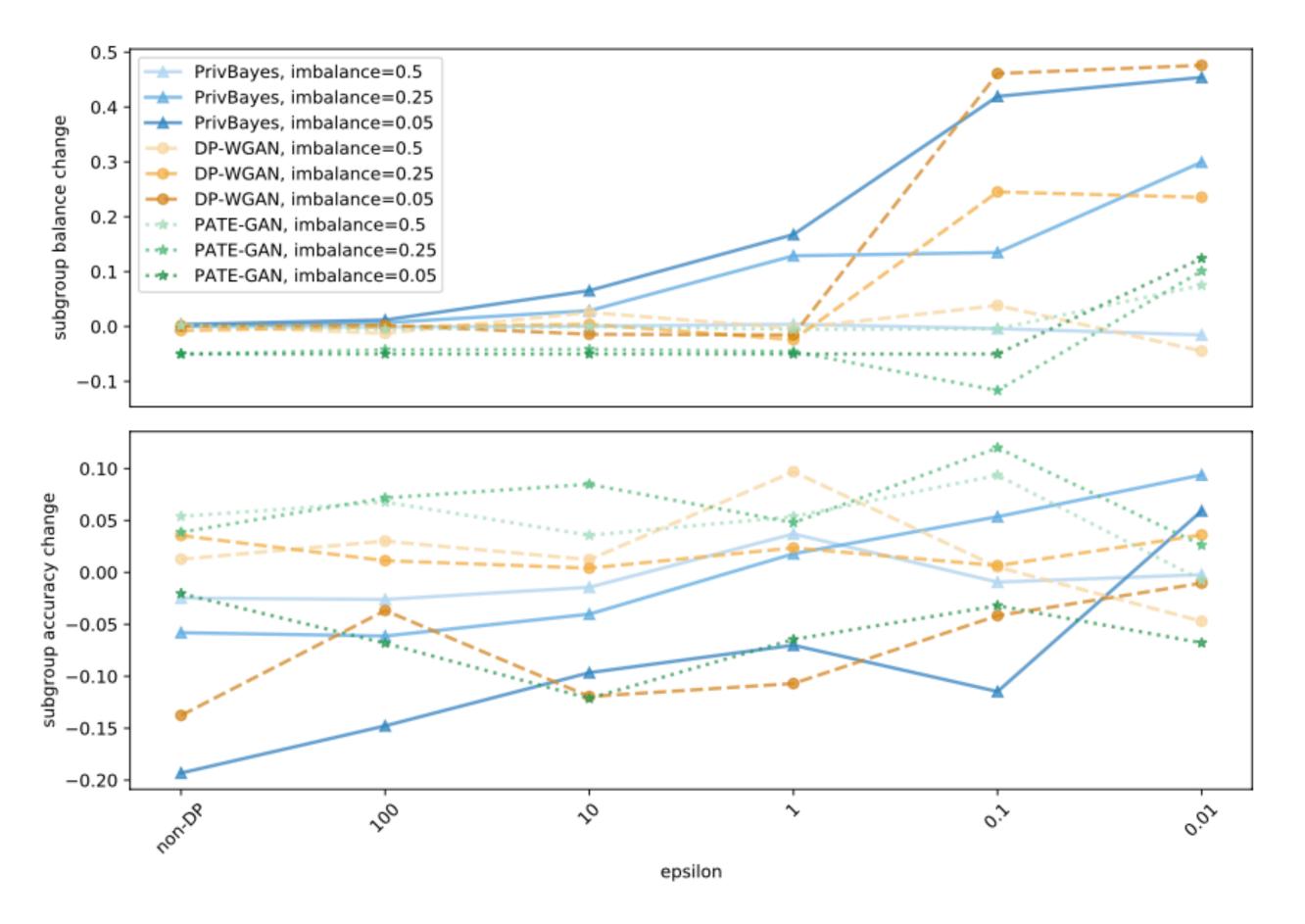


Figure 5: Minority single-attribute (sex) subgroup imbalance level change (top), minority subgroup drop in accuracy vs. majority (bottom) for different subgroup imbalance and ϵ levels, *Texas*.

S4: Multi-Attribute Subgroup Size and Accuracy

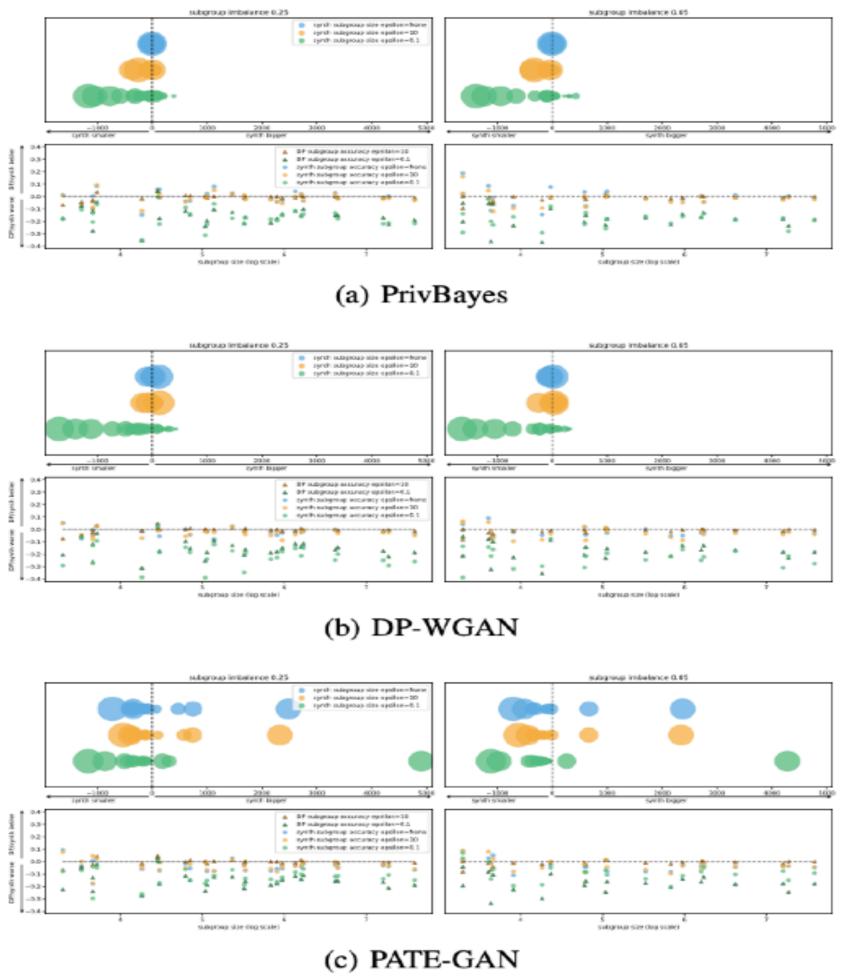


Figure 13: Size of synthetic data multi-attribute subgroup (intersection of age, sex, and race) relative to real (top) and accuracy of DP and synthetic classifiers relative to real classifier accuracy (bottom) for different single-attribute (sex) subgroup imbalance and ϵ levels, *Texas*.

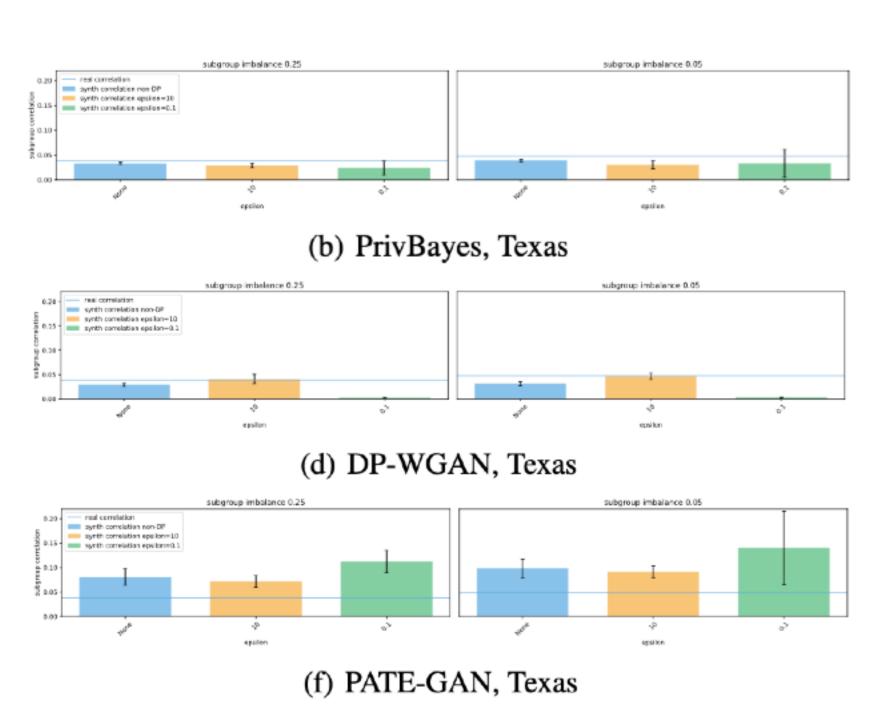


Figure 14: Mutual information between the multi-attribute subgroup and the target (income/length of stay) columns for different single-attribute subgroup imbalance (sex) and ϵ levels, *Adult* (left) and *Texas* (right).