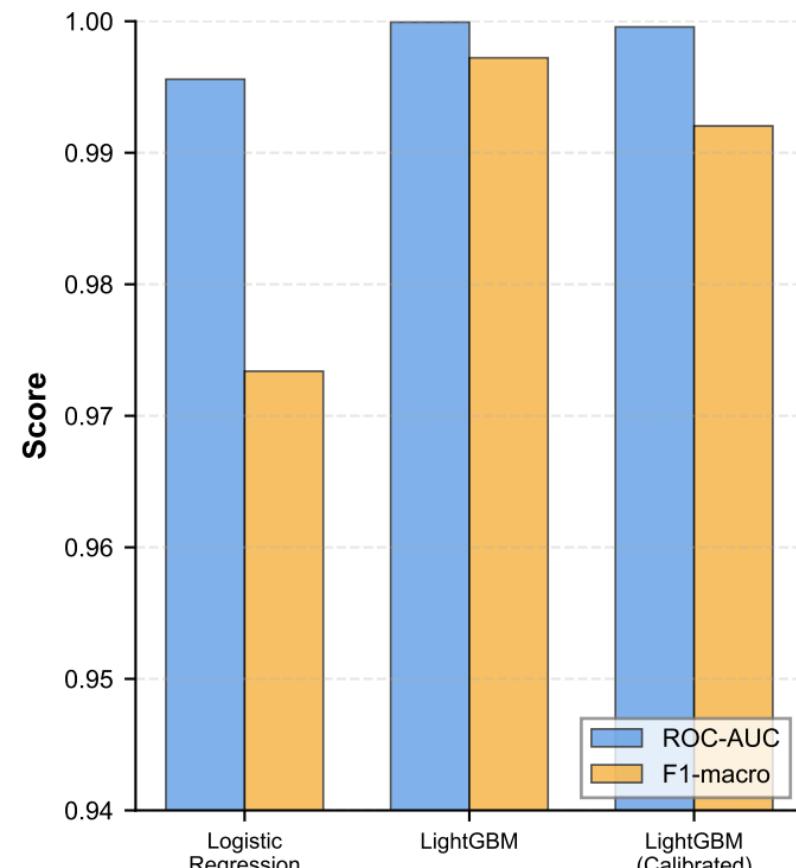
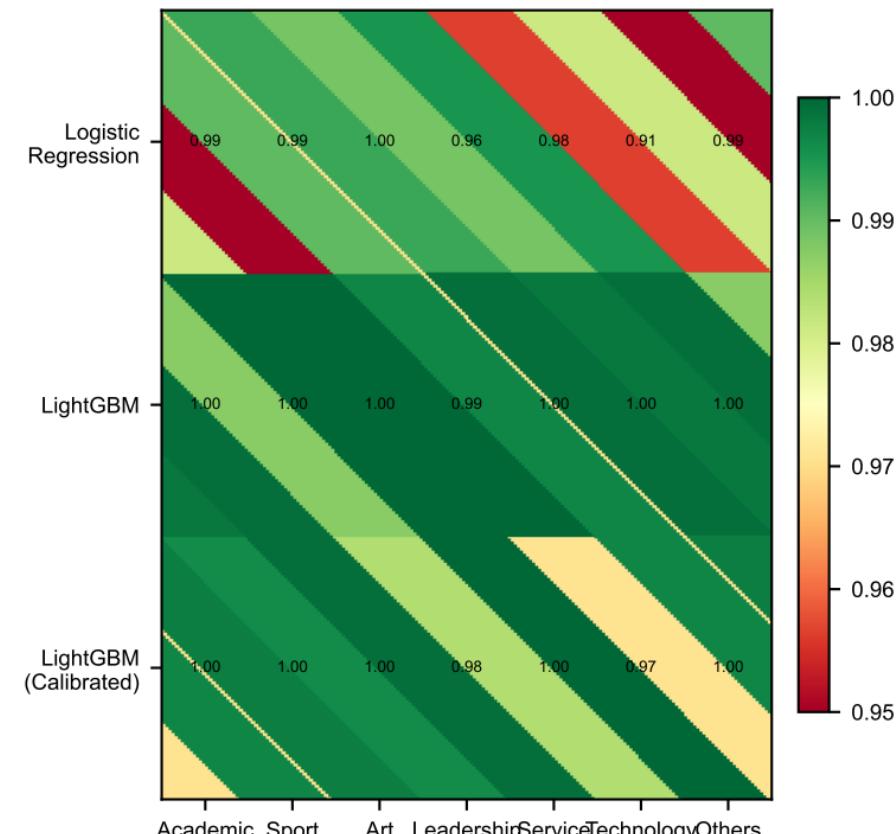


### Figure S4: Model Performance Detailed Analysis

#### A. Overall Model Performance Comparison



#### B. F1 Scores by Model and Domain



#### C. Precision-Recall Balance (LightGBM)

