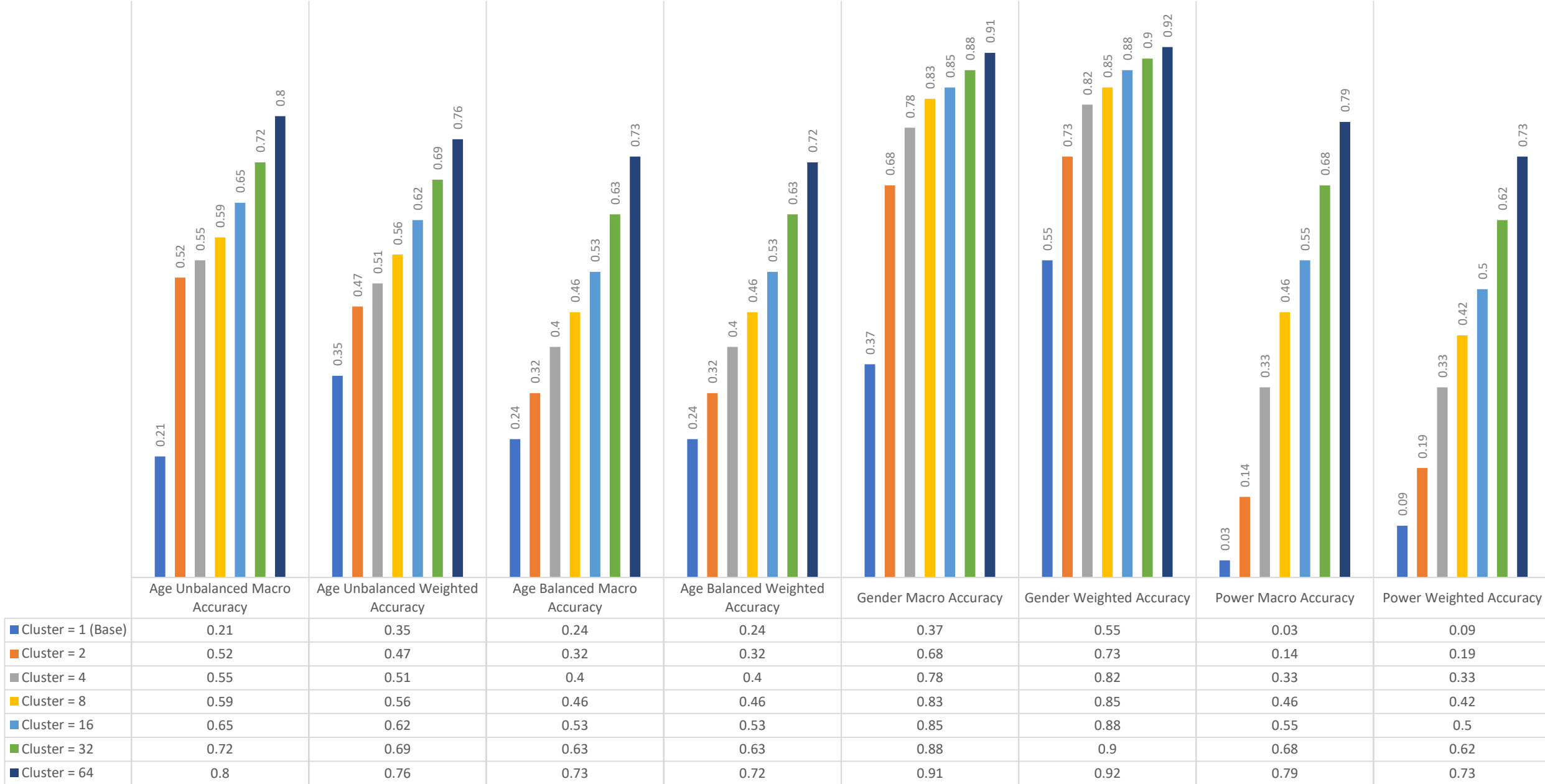


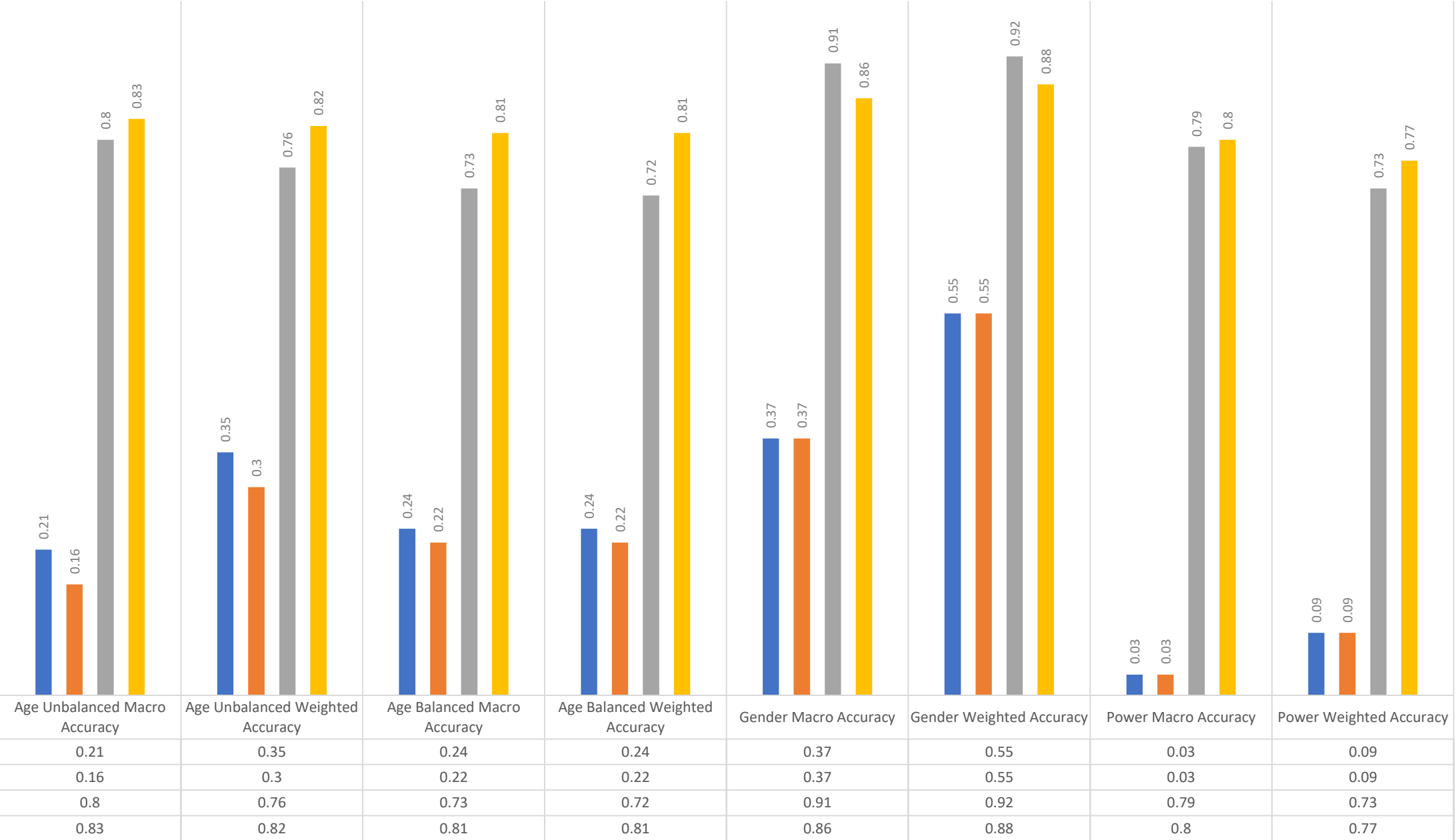
PREDICTION ACCURACY WITH DIFFERENT NUMBERS OF USER GROUPS (XGBOOST)

Cluster = 1 (Base) Cluster = 2 Cluster = 4 Cluster = 8 Cluster = 16 Cluster = 32 Cluster = 64



XGBOOST VS CATBOOST IN USER INFO PREDICTION BASED ON PATH CLUSTERING

Cluster = 1 (Base, XGBoost) Cluster = 1 (Base, CatBoost) Cluster = 64 (XGBoost) Cluster = 64 (CatBoost)



MODELING TIME (UNIT: SECOND)

Cluster = 1 Cluster = 2 Cluster = 4 Cluster = 8 Cluster = 16 Cluster = 32 Cluster = 64

System Information	
CPU	AMD Ryzen 9 3900X 12 Core at 3.8 Ghz
GPU	RTX 2080 Super 8Gb
Memory	32GB 3200 Mhz

