Investigations: • Utility-Privacy Tradeoff Influence of Dataset Structure Class Size Non-Private Model Accuracy • F1-Score Number of Classes $\varepsilon = \infty$ Train-/ Test Dataset Imbalance Accuracy Gap Influence of Data Information Density Colored Images Class Similarity **Private Model** Vulnerability **Utility Measurement Dataset Modifications Data Measurements Datasets** Measurement $\varepsilon = 30$ • MNIST LiRA Attack Class Size **Private Model** Entropy FMNIST Number of AUC Compression Ratios SVHN $\varepsilon = 1$ Classes • TPR @ FPR=0.1 Standard Deviation CIFAR-10 • TPR @ FPR=0.001 Dataset CIFAR-100 · Fisher's Discriminant Imbalance Ratio EMNIST