Performance comparison of SAE-CEN and Autoencoder based on client ratio in the IID scenario 99 Dev **YOU** 97 Mean AE+FedAvg AE+FedProx AE+MSEAvg SAE-CEN+FedAvg SAE-CEN+FedProx SAE-CEN+MSEAvg 95 80% 50% 60% 70% 90% 100% **Client Ratio**