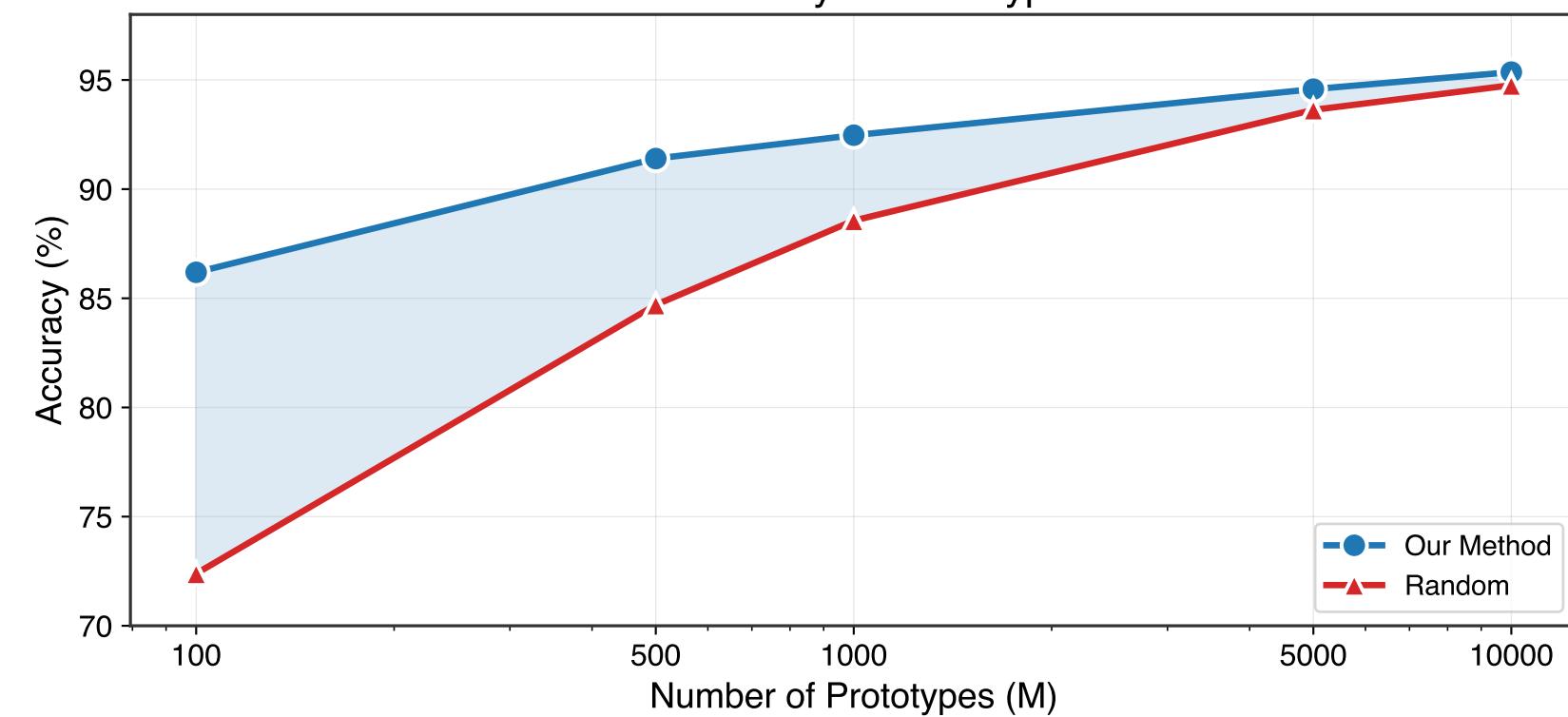
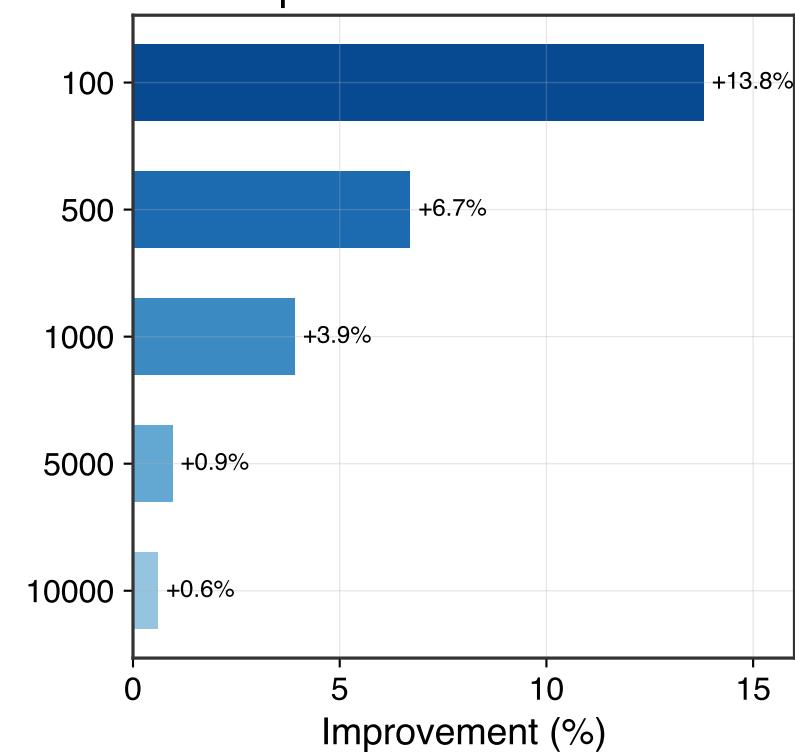


# Prototype Selection for 1-NN Classification on MNIST

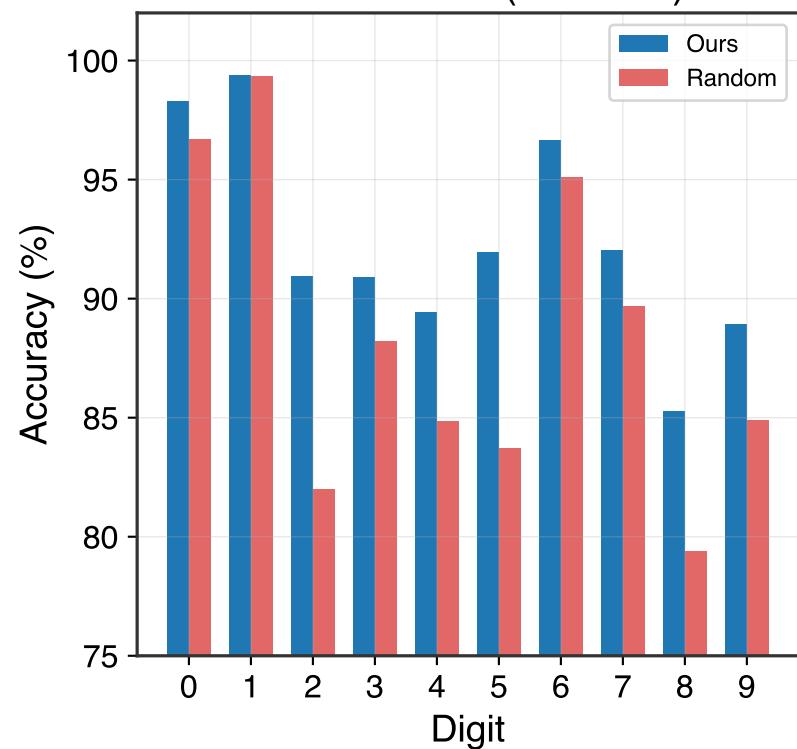
A. Accuracy vs Prototypes



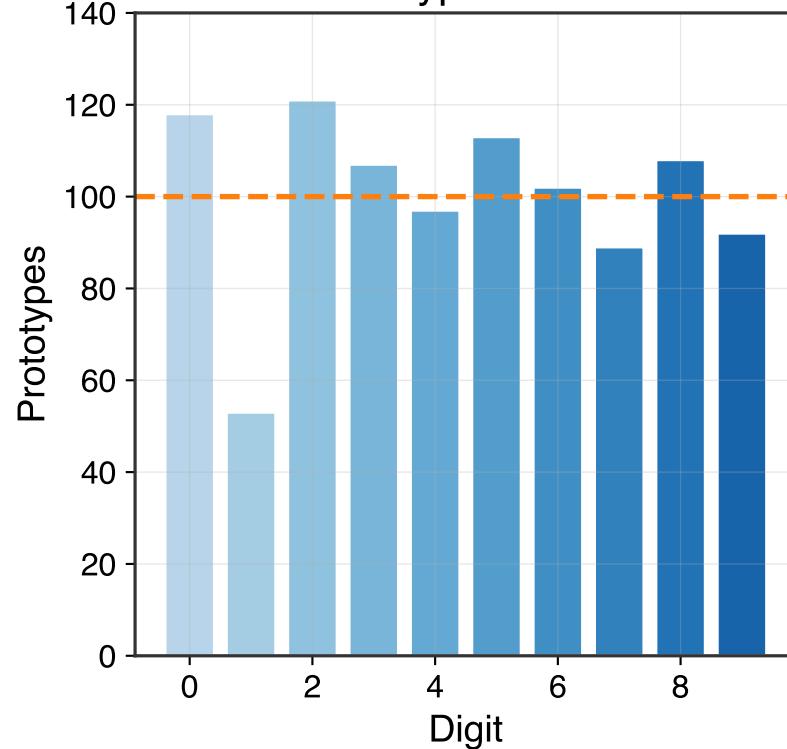
B. Improvement over Random



C. Per-Class (M=1000)



D. Prototype Allocation



E. Summary

**Key Results (M = 1,000)**

Our Method:	92.47% accuracy
Random:	88.56% accuracy
Improvement:	+3.91%
Compression:	60x (60,000 → 1,000 prototypes)
Selection Time:	~15 seconds