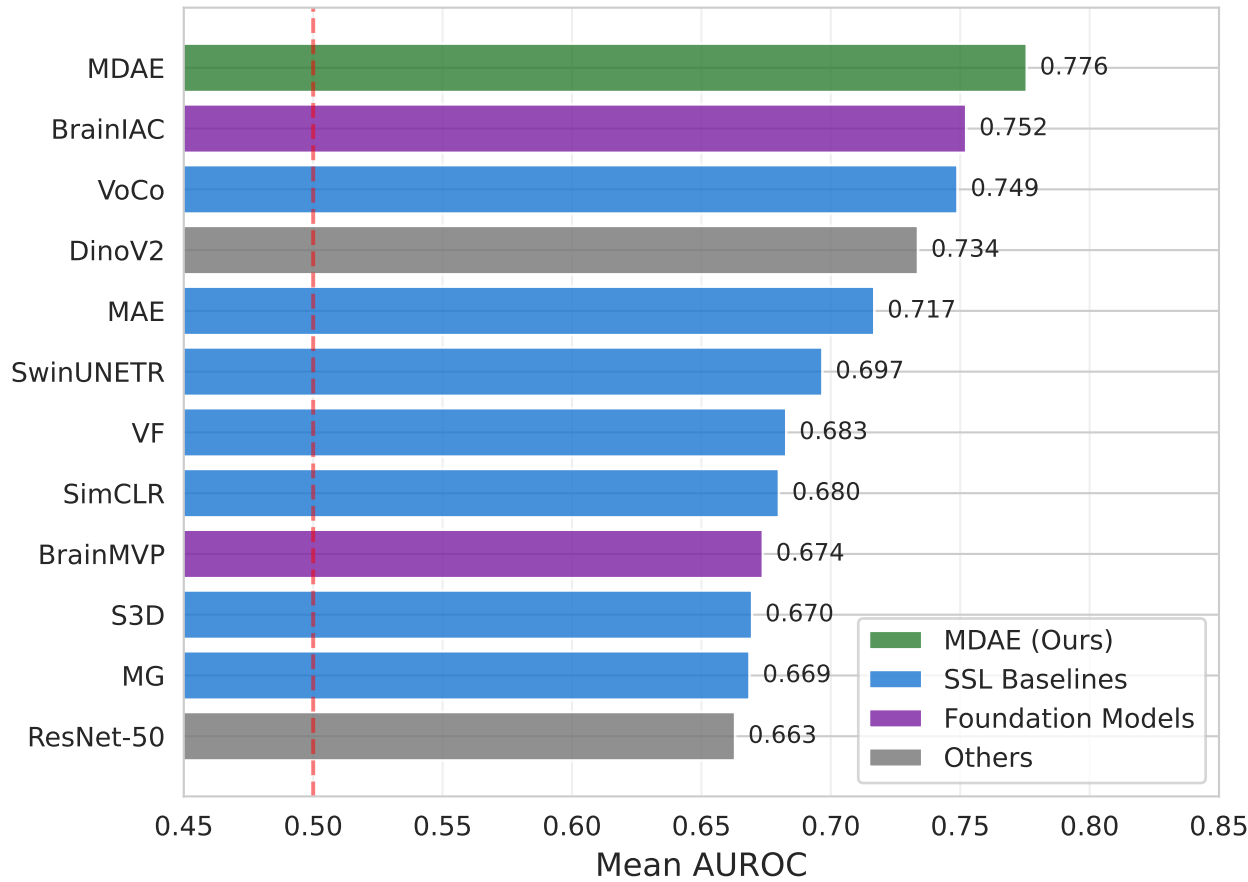
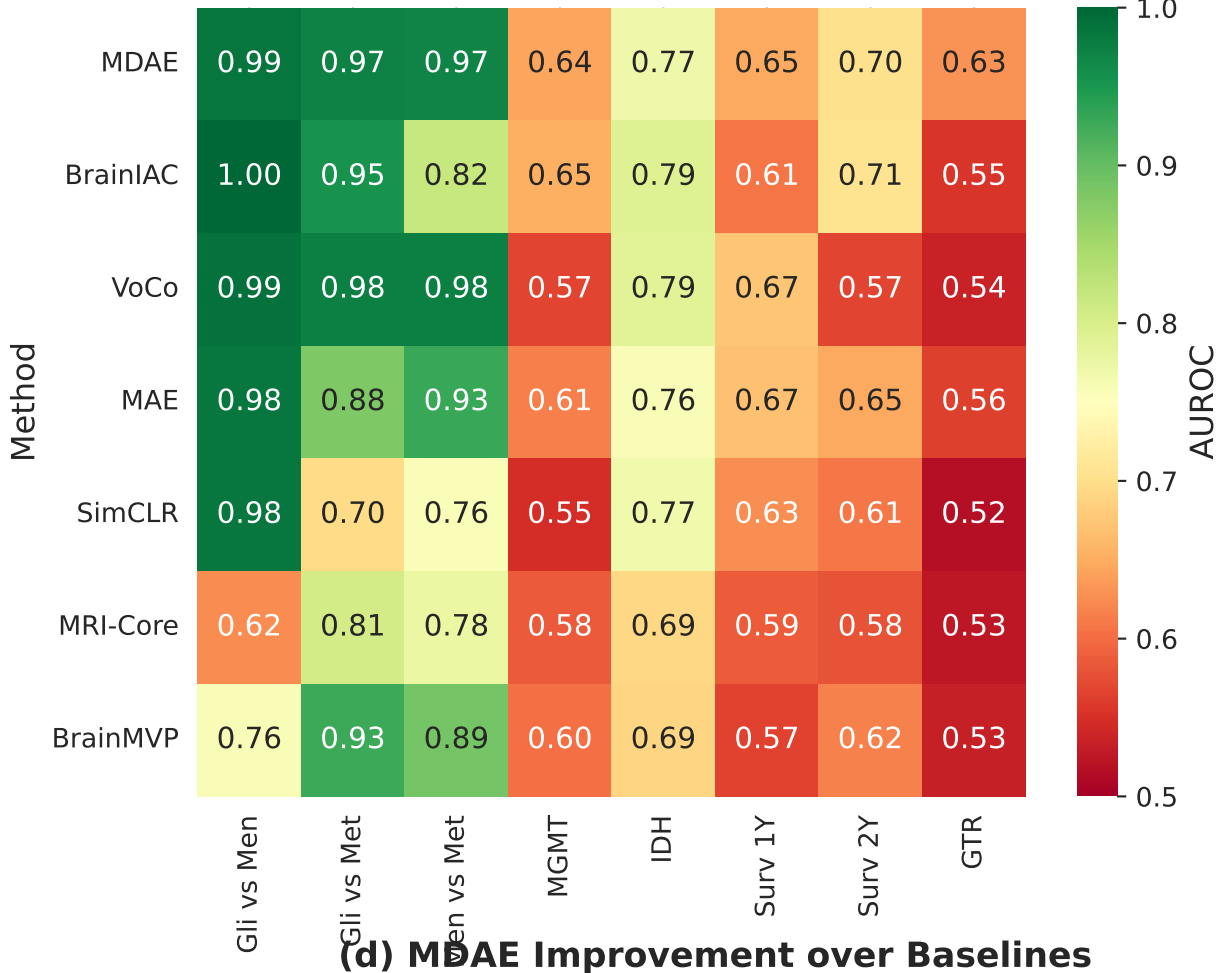


# MDAE Performance Analysis Across 15 Brain Tumor Classification Benchmarks

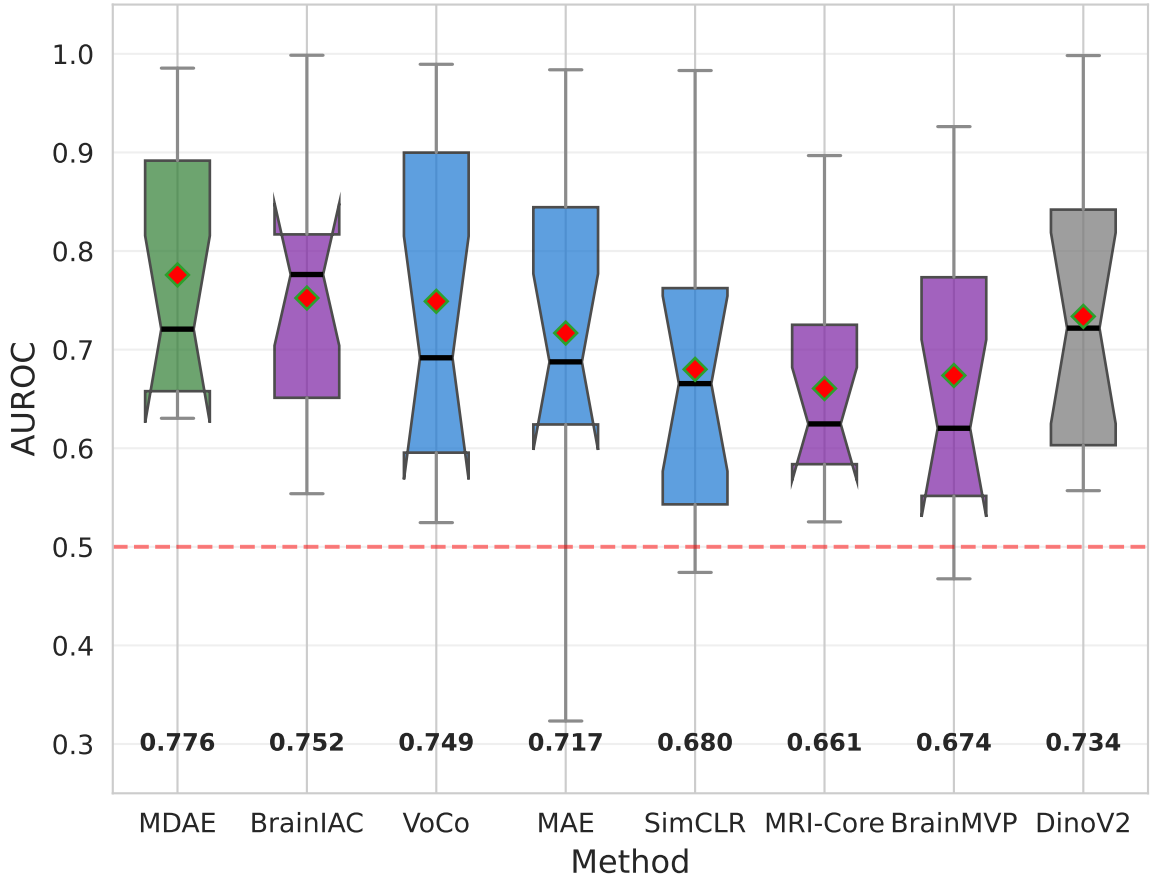
(a) Average Performance Across All Tasks



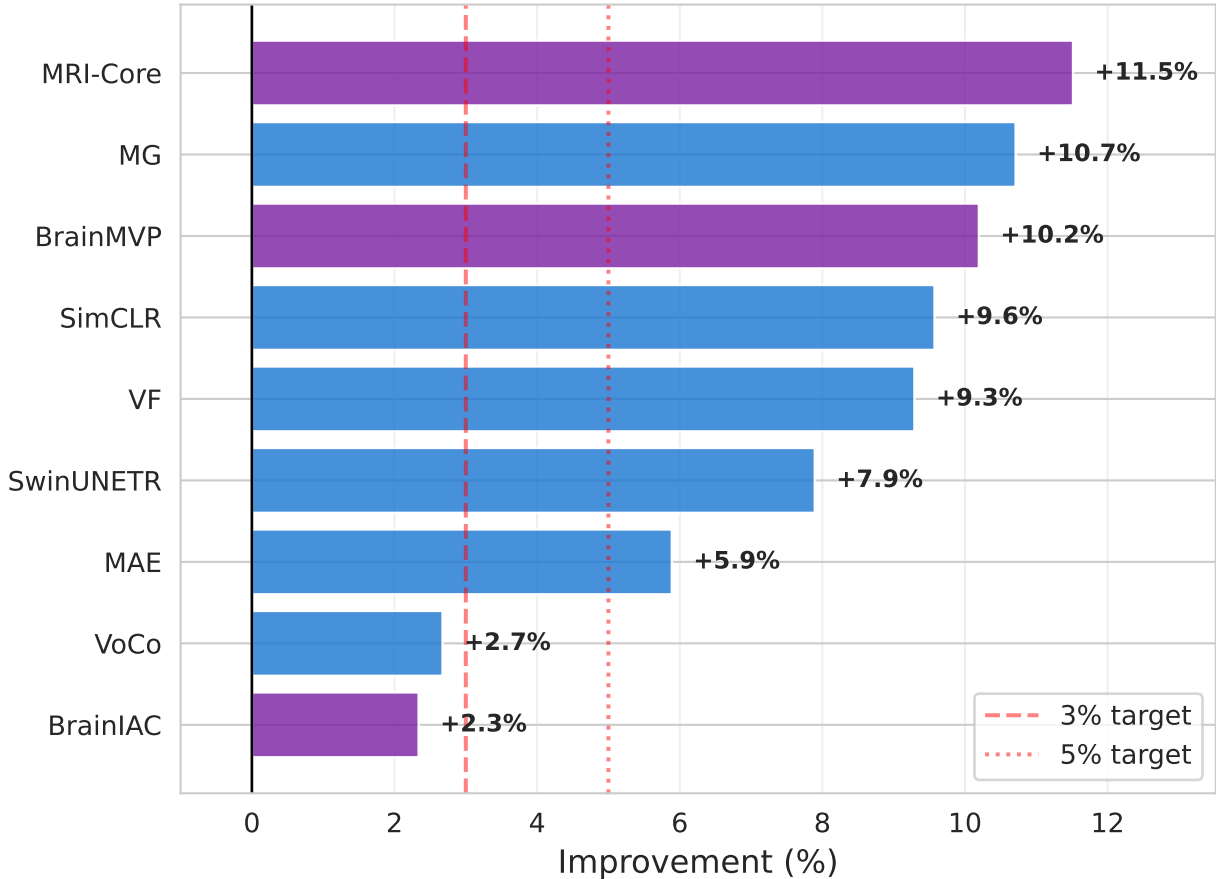
(b) Performance Heatmap (Selected Benchmarks)



(c) Performance Distribution Across Tasks



(d) MDAE Improvement over Baselines



MDAE Mean AUROC: 77.6%  
Avg. improvement over SSL: 7.7%  
Avg. improvement over FM: 8.0%