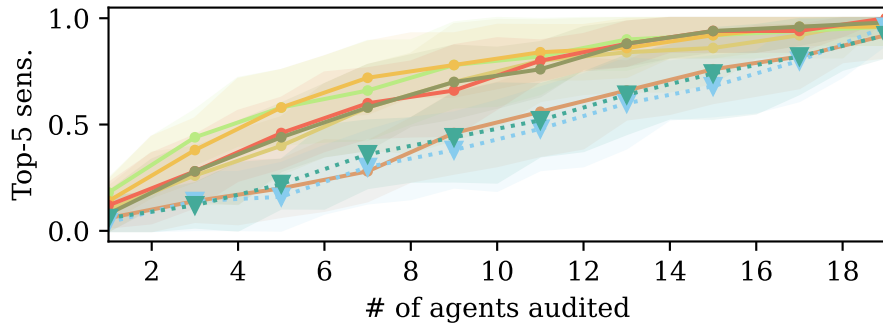
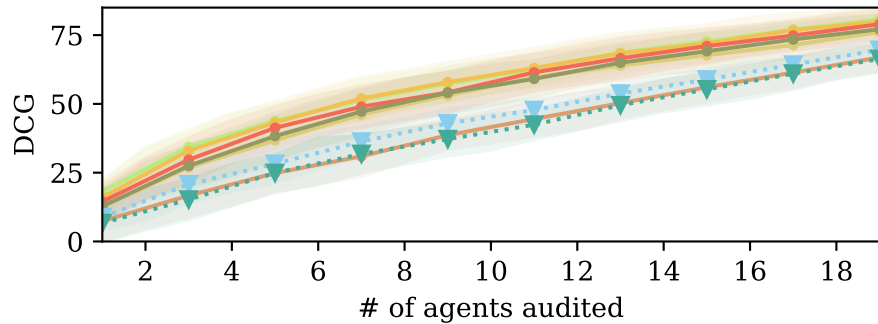


# Ranking performance across auditing thresholds

Top-5 sensitivity (  $\uparrow$  )



Discounted cumulative gain (DCG,  $\uparrow$  )



Causal effect estimator

S-learner   DragonNet   T-learner   R-learner   S+IPW   PSM   Random   Payout-only