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Figure 1: Dynamics of group-wise loss disparity for **ACSIncome-CA** data when $\rho \in \{0, 1.0, 3.0\}$. When $\rho = 0$, the policy is just RERM It is clear that when ρ becomes larger, the groupwise loss disparity becomes lower.
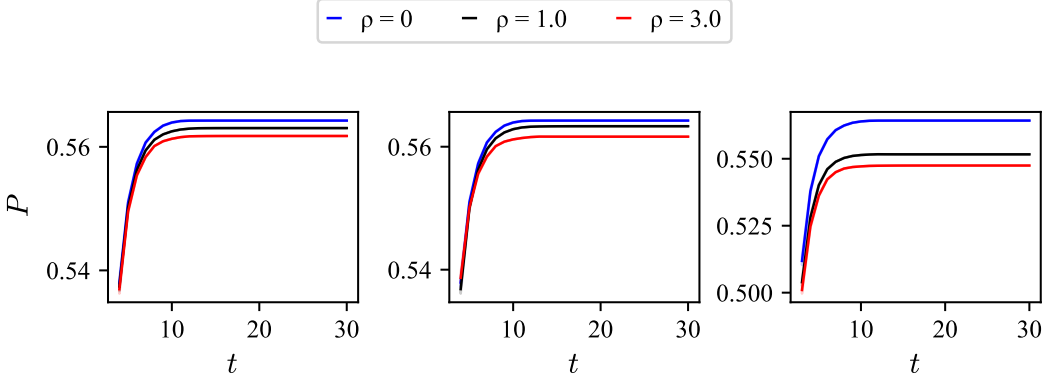

Figure 2: The evolution of majority group for **ACSIncome-CA** data when $\rho \in \{0, 1.0, 3.0\}$. When $\rho = 0$, the policy is just RERM. It is clear that when ρ becomes larger, the group fraction becomes lower.
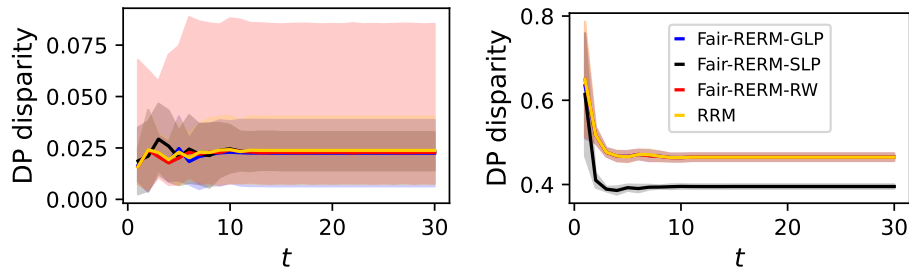

Figure 3: Demographic parity disparity for 2 classification tasks.