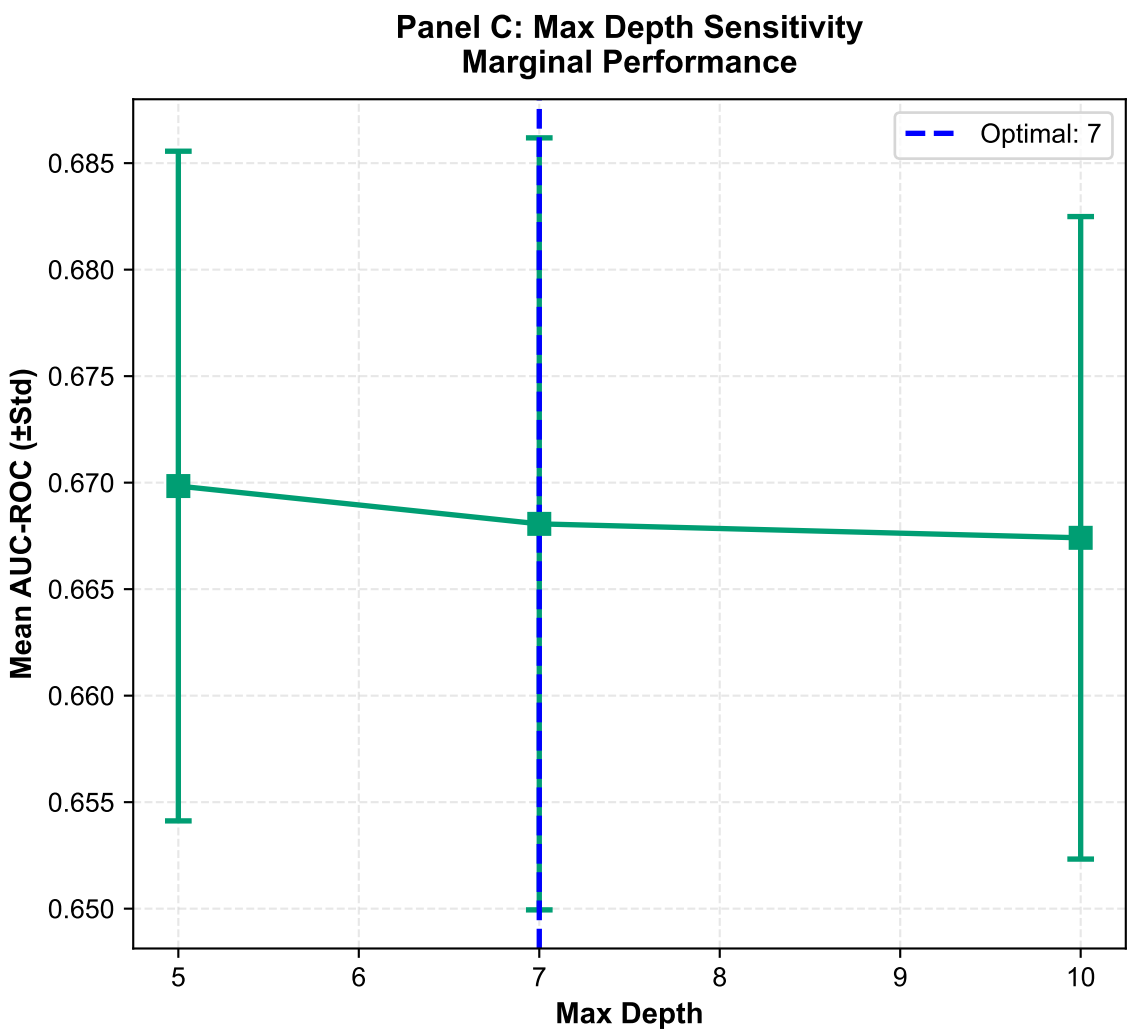
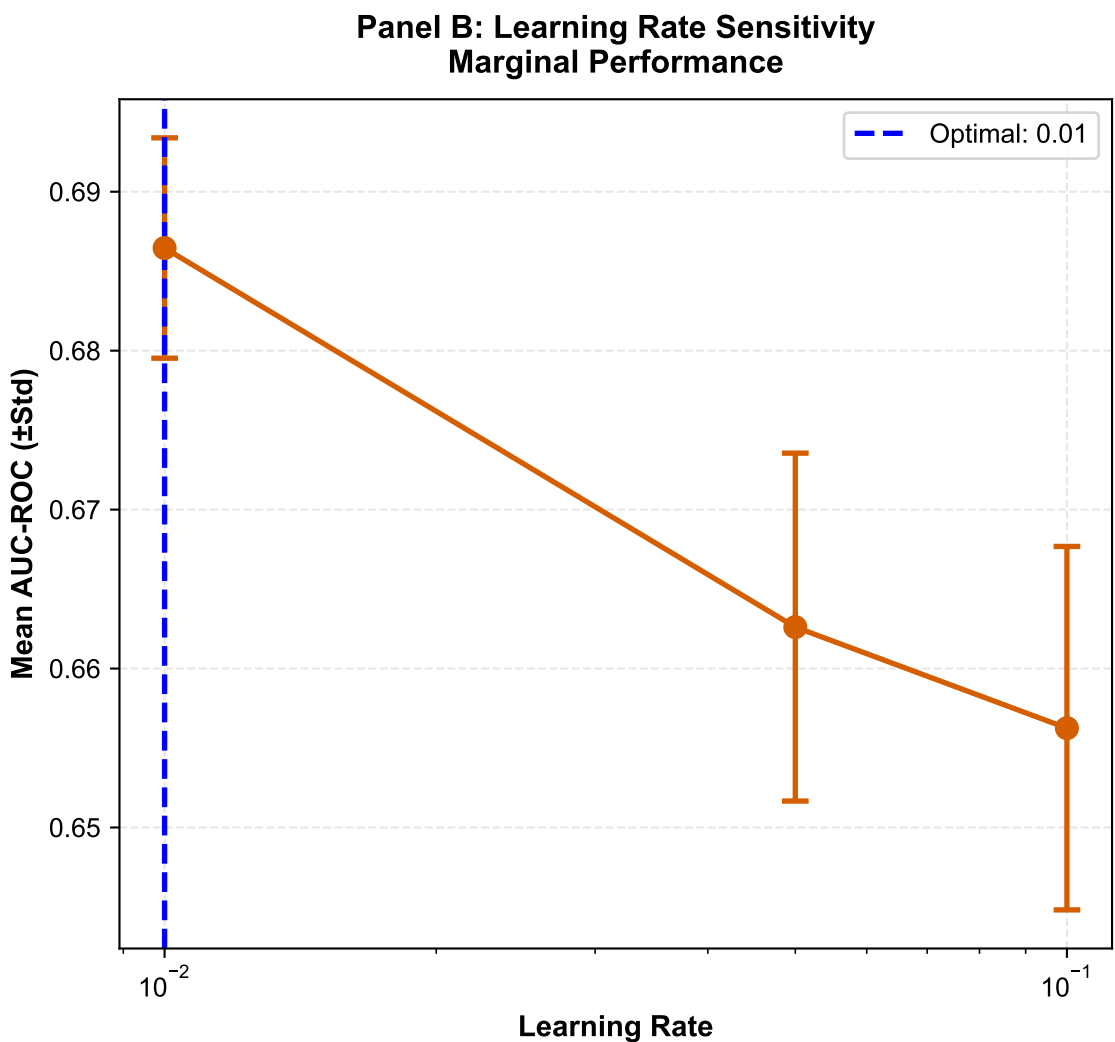
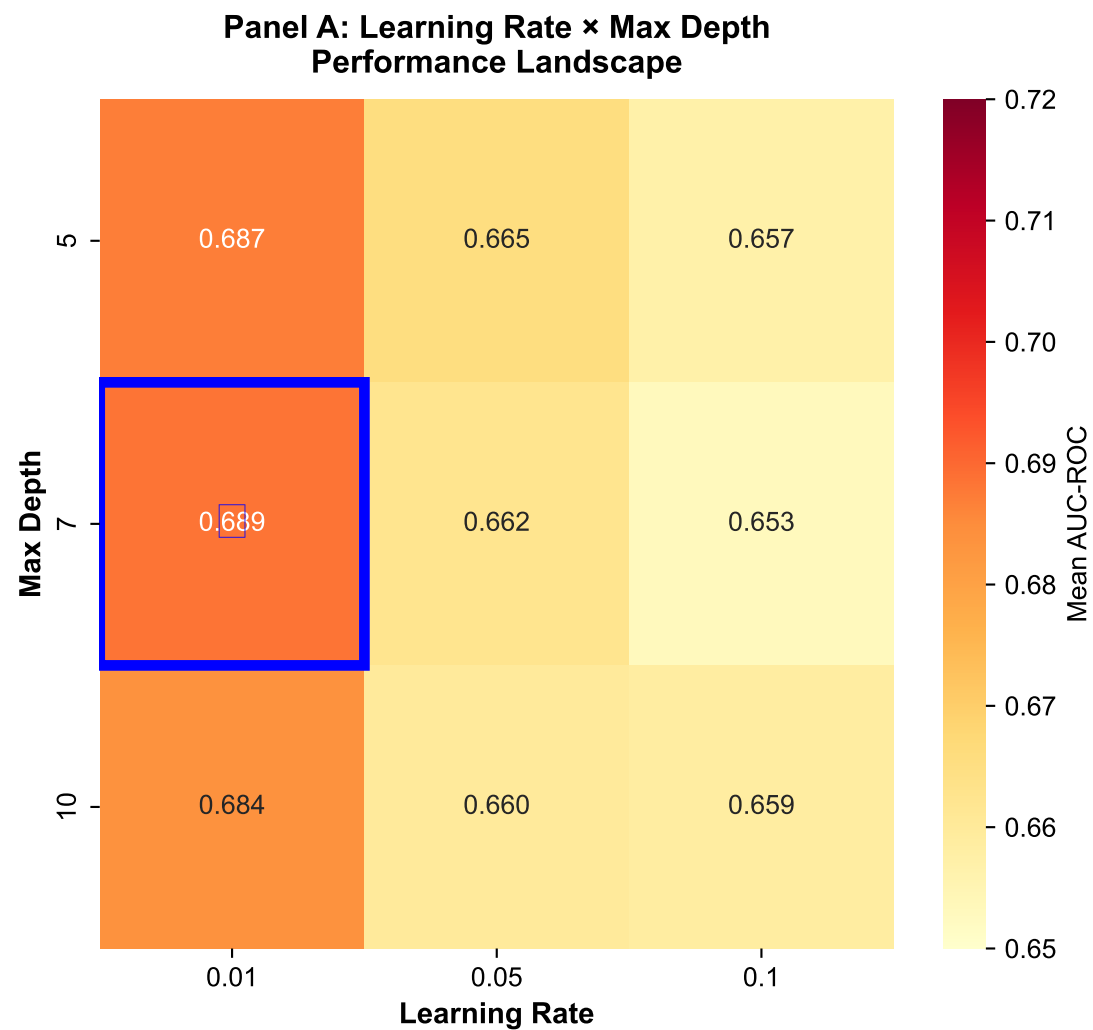


Hyperparameter Tuning: Systematic Grid Search Exploration



GRID SEARCH SUMMARY:

- Total configurations tested: 3,888
- Hyperparameters tuned: 9 (learning_rate, max_depth, n_estimators, etc.)
- Best configuration: lr=0.01, depth=7, n=200
- Best AUC-ROC: 0.7003 \pm 0.1592
- Performance range: 0.6169 to 0.7003
- Key finding: Moderate learning rate (0.01) and depth (7) achieve optimal balance