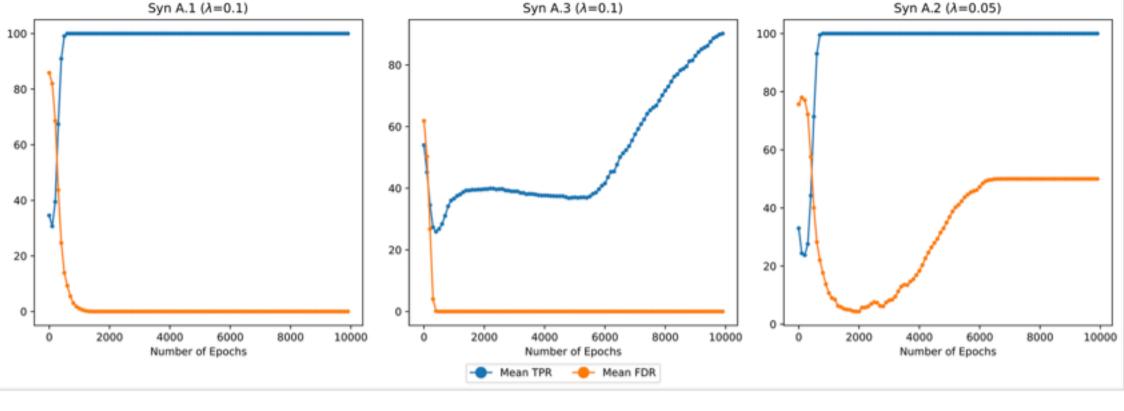
Analysis of Performance Influencing Factors in INVASE

Policy to Prevent Explainer Degradation



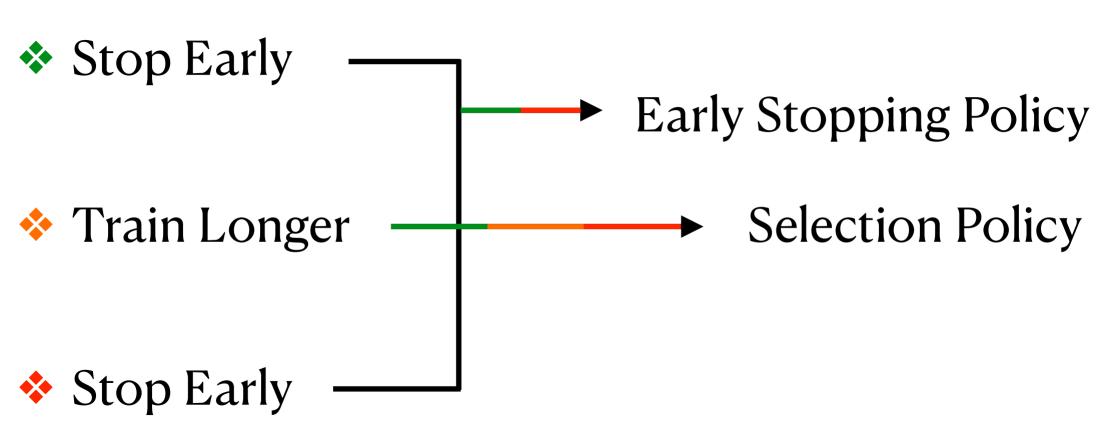


◆ Selection Probabilty Stability-based Early Stopping Policy • A threshold for selection probability change (δ) • A patience parameter (T)

Evaluate and save performance of explainer for each *m* iterations After training, select the top-k performing explainers from the saved Re-train the picked explainers & Select the best

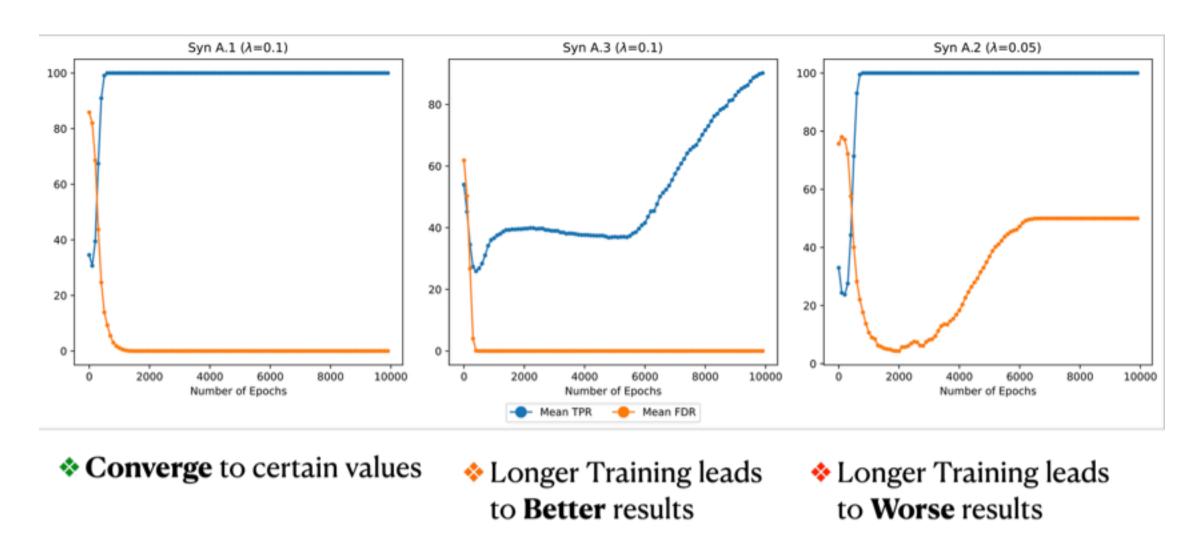
Save explainer for each *r* iterations

♦ Post-Training Selection Policy



Analysis of Performance Influencing Factors in INVASE

Policy to Prevent Explainer Degradation



❖ Stop Early
➤ Early Stopping Policy
❖ Train Longer
➤ Selection Policy

- ◆ Selection Probabilty Stability-based Early Stopping Policy
 - A threshold for selection probability change (δ)
 - A patience parameter (T)
- **♦** Post-Training Selection Policy
 - 1. Save explainer for each *r* iterations
 - 2. Evaluate and save performance of explainer for each *m* iterations
 - 3. After training, select the top-k performing explainers from the saved
 - 4. Re-train the picked explainers & Select the best

Analysis of Performance Influencing Factors in INVASE

Selection Probabilty Stability-based Early Stopping Policy

