

Exploration of the Rashomon Set Assists Trustworthy Explanations for Medical Data

Why?

Traditional predictive modeling focuses on selecting the single best model, neglecting slightly less performing models. Such exclusive reliance on a single model can limit insights and lead to misleading conclusions.

What?

This paper presents Rashomon_DETECT, a new method to explore good models that exhibit different behaviors.

In this regard we introduce the Profile Disparity Index (PDI) for quantifying differences among models and demonstrate its usefulness in real-world problem of survival among HLH patients.

How?

Rashomon_DETECT: find k the most different models from the Rashomon set compare profiles using PDI measure

