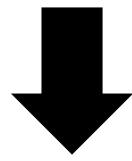


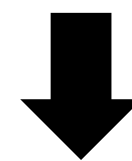
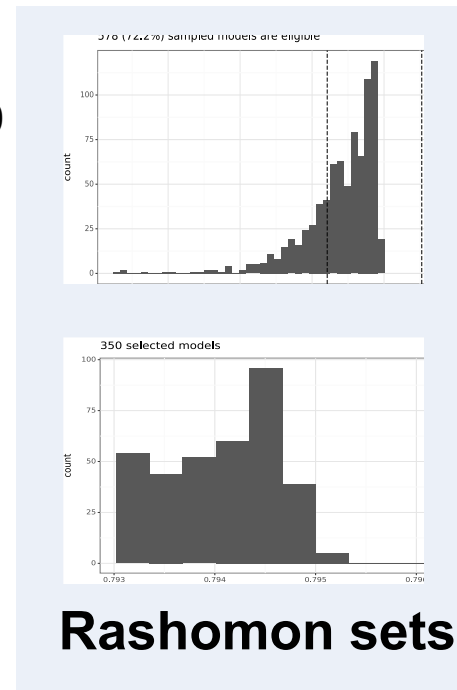
# Original model (Fairness-unaware counterpart model)



## Nearly-optimal model generation

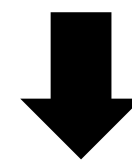
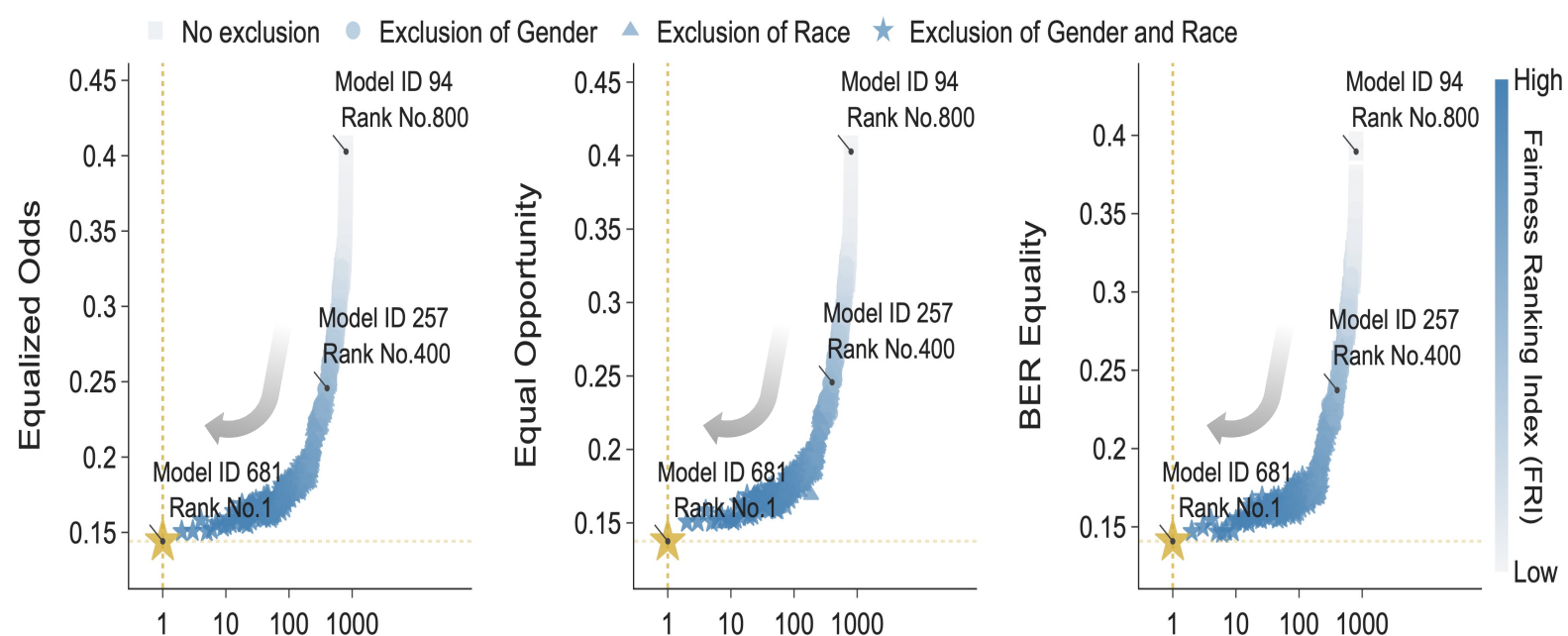
Toggling sensitive variables  $\{s_i\}_{i=0}^k$

- No exclusion
- Individual exclusion of  $s_0, \dots, s_k$
- Pair exclusion of  $\{s_0, s_1\}, \{s_0, s_2\}, \dots, \{s_{k-1}, s_k\}$
- Exclusion of  $\{s_i\}_{i=0}^k$



## Fairness transmission (interactive)

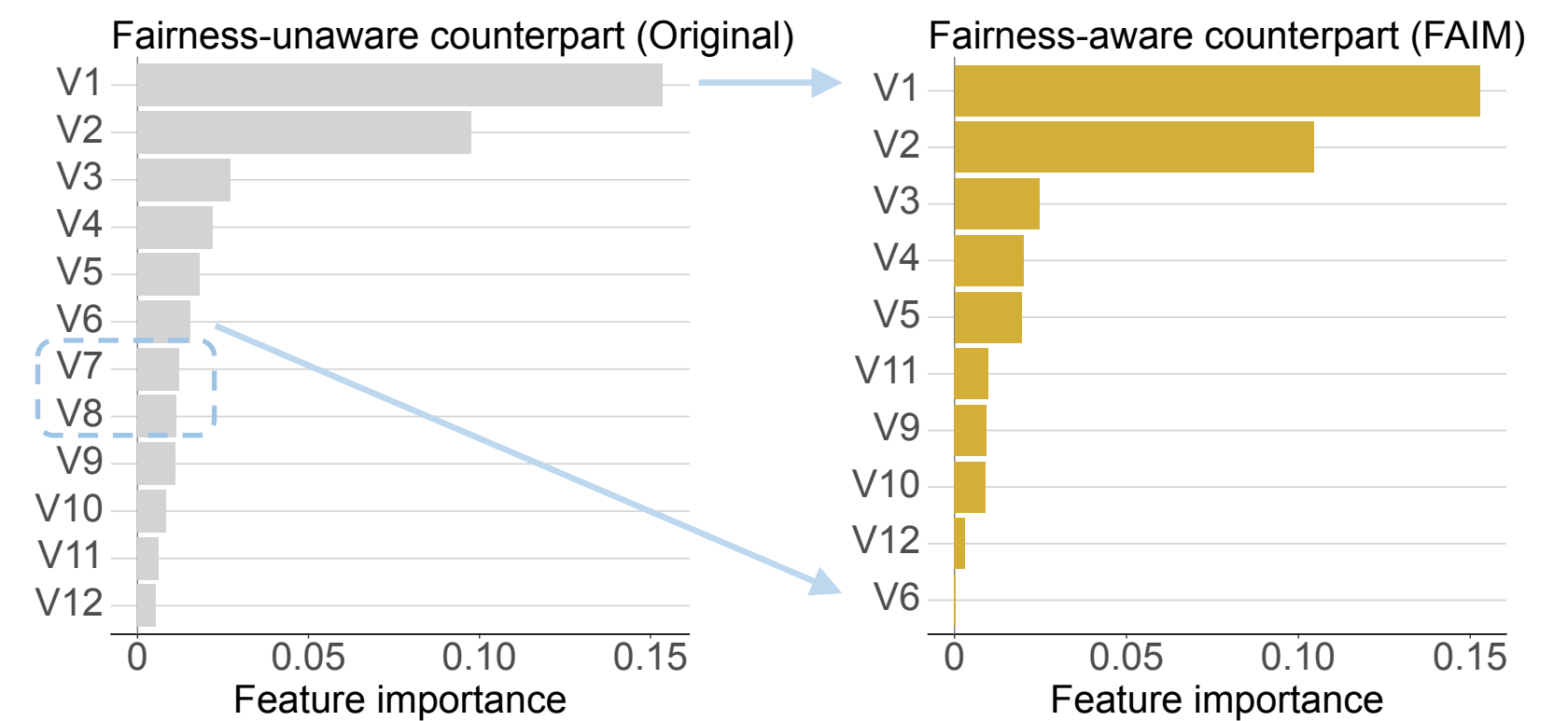
The FAIM model (i.e., fairness-aware counterpart model) is with model ID 681, out of 800 sampled models.



## FAIM output model (Fairness-aware counterpart model)



## Model explanation



- Decisions of inclusion/exclusion of sensitive variables (e.g., V7 and V8)
- Changes in variable importance (e.g., V6)
- Consistency in variable importance (e.g., V1)

