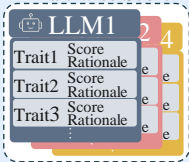


Category Index Conversion

Trait-wise Score



(e.g.)

Raw / Max \Rightarrow Index

4 / 10 2

4 / 4 4

MFRM (Many-Facet Rasch Mode)

Score(κ)

Interaction facet

(Essay \times Trait)

Ability
 θ

(LLM \times Trait)

Severity
 β

(Trait \times Category)

Threshold
 τ

Odds Ratio ($\exp(\beta)$)

Trait 1
: LLM1(1.0797) > LLM2(1.0323)...

Trait 2
: LLM2(1.1409) > LLM3(1.005)...

Meta-LLM Scorer

(Bias-aware Aggregation)