Fraction of NaN Correlations by Benchmark and Metric Correlation: kendall Correlation: pearson Correlation: spearman arc_challenge **→ = ++ → = ++ → ■ → +** arc_easy hellaswag mathqa mc_taco mmlu_abstract_algebra mmlu_anatomy mmlu_astronomy mmlu_business_ethics mmlu_clinical_knowledge mmlu_college_biology mmlu_college_chemistry mmlu_college_computer_science mmlu_college_mathematics mmlu_college_medicine mmlu_college_physics --mmlu_computer_security mmlu_conceptual_physics mmlu_econometrics mmlu_electrical_engineering mmlu_elementary_mathematics mmlu_formal_logic mmlu_global_facts mmlu_high_school_biology mmlu_high_school_chemistry mmlu_high_school_computer_science mmlu_high_school_european_history mmlu_high_school_geography ਲੇ mmlu_high_school_government_and_politics mmlu_high_school_macroeconomics mmlu_high_school_mathematics mmlu_high_school_microeconomics mmlu_high_school_physics mmlu_high_school_psychology mmlu_high_school_statistics mmlu_high_school_us_history mmlu_high_school_world_history mmlu_human_aging mmlu_human_sexuality mmlu_international_laẃ mmlu_jurisprudence mmlu_logical_fallacies mmlu_machine_learning mmlu_management mmlu_marketing mmlu_medical_genetics mmlu_miscellaneous mmlu_moral_disputes mmlu_moral_scenarios mmlu_nutrition mmlu_philosophy mmlu_prehistory mmlu_professional_accounting mmlu_professional_law mmlu_professional_medicine mmlu_professional_psychology mmlu_public_relations mmlu_security_studies mmlu_sociology mmlu_us_foreign_policy mmlu_virology mmlu_world_religions openbookqa piqa pubmedga race sciq social_iqa winogrande

0.4

Fraction of NaN Correlations

0.8

1.0

0.0

0.2

0.4

Fraction of NaN Correlations

0.8

1.0

0.0

0.2

Fraction of NaN Correlations

0.8

0.0

0.2

log_prob_vocab_correct

prob_vocab_correct

prob_choices_correct

brier_score

acc

Model Family

Cerebras (Param. and Data Scaling)

★ INCITE 7B Param. (Data Scaling)

■ LLM360 Amber 7B Tokens (Param Scaling)

♣ OLMo 7B Param. (Data Scaling)

Pythia 12B Param. (Data Scaling)

♦ Pythia 300B Tokens (Param. Scaling)