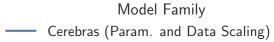
MMLU HS US History  $p_{\theta}^{\mathsf{Vocab}}(\mathsf{Correct\ Choice})$ Correlation: spearman Correlation: pearson Correlation: kendall — Pythia 12B Param. (Data Scaling) —— Pythia 300B Tokens (Param. Scaling) 0.750.751.00 -1.001.00 -1.000.00Correlation Between FLOPs and Scores (Per Sample) Correlation Between FLOPs and Scores (Per Sample) Correlation Between FLOPs and Scores (Per Sample)



— INCITE 7B Param. (Data Scaling)

LLM360 Amber 7B Tokens (Param Scaling)

— OLMo 7B Param. (Data Scaling)