

XOM - Ensemble Validation Summary

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EXECUTIVE SUMMARY

Metric	Value
Best Approach	ML + LLM
Best MAPE	13.66%
Validation Rounds	4

APPROACH COMPARISON

Approach	Revenue	Net Income	Assets	Equity	Overall
ML Only	4.20%	11.76%	2.60%	1.96%	15.03%
ML + LLM	4.20%	5.55%	2.53%	1.96%	13.66%
Pure LLM	4.70%	18.34%	8.59%	10.85%	39.17%

METHODOLOGY

ML Only: XGBoost Quantile Regression + Accounting Engine

ML + LLM: ML growth prediction + LLM margin adjustments

Pure LLM: LLM directly predicts all financial values