

ML Cost Aware LightGBM 126D Rank

Machine-learning rank evidence across a broad liquid equity universe.

Cost Aware Objective | Secondary research | 126d preferred horizon

Research note | Historical simulation | Not investment advice

Executive Summary

This note summarizes historical rank evidence for ML Cost Aware LightGBM 126D Rank. Metrics are reported as research diagnostics under the source-run assumptions and should be read as evidence about ranking behavior, not as a live recommendation.

Preferred horizon	126d
Top-bottom spread	13.52%
Rank IC	0.079
Long-leg return	n/a
Average turnover	n/a

1. The preferred diagnostic horizon is 126d, where the recorded rank spread is 13.52%.
2. Rank IC is positive in the reported research run at 0.079.
3. The signal is best read as a research-library ranking component, not as a standalone product.

Data and Research Setup

UNIVERSE

Broad liquid equity universe used by the source research run.

INPUTS

Daily close prices and dated feature panels available at the research observation date.

CADENCE

Cross-sectional rank review at the reported horizon set.

COMPARISON BASIS

Comparisons use the same universe and source assumptions inside each run. The note omits current constituents, current tickers and live recommendations.

The source files were used for historical research extraction only. This note does not disclose current constituents, current ranks or position-level recommendations.

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Signal Methodology

Without disclosing the exact functional, the construction proceeds along three conceptual steps.

1. **Signal measurement.** Measures a cross-sectional characteristic available at the research observation date.
2. **Cross-sectional ranking.** Ranks instruments so the strongest and weakest observations can be compared on the same assumptions.
3. **Horizon evaluation.** Evaluates whether the preferred horizon is supported by adjacent horizons or sample-split evidence.

The description is intentionally conceptual. Formula details, exact construction rules and implementation parameters are not disclosed.

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Results and Horizon Context

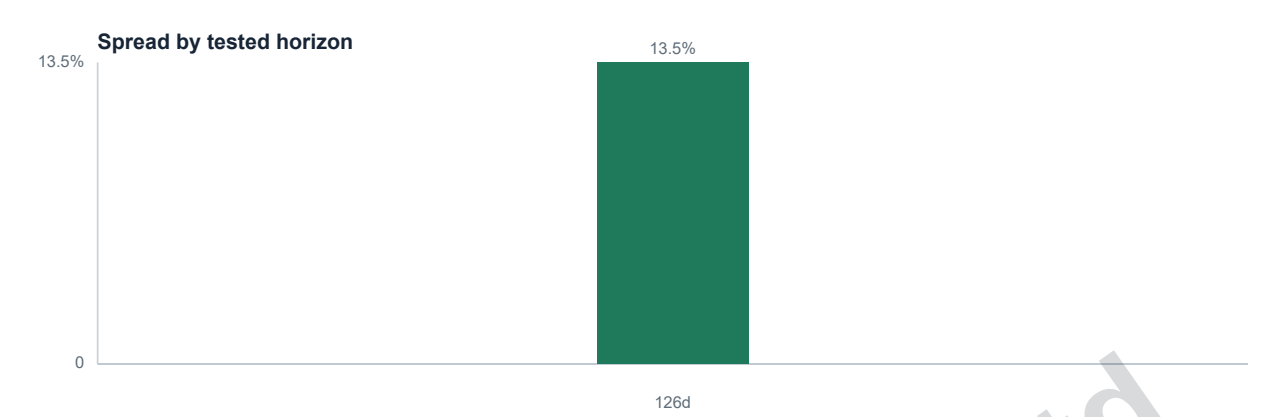


Figure 1. Top-minus-bottom spread by tested horizon from the available validation summary. The chart is a diagnostic comparison, not a standalone portfolio NAV.

Horizon	Rank spread	Rank IC	Long-leg return	Turnover
126d	13.52%	0.079	n/a	n/a

Stability and Robustness

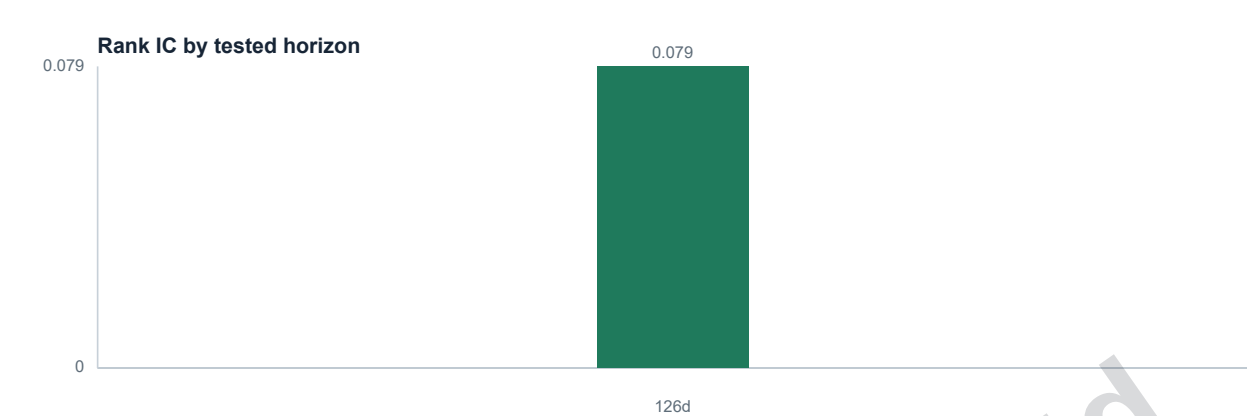


Figure 3. Rank-IC evidence across the available horizon set. Where only one horizon is available, the chart should be read as a compact evidence marker.

The available evidence is summary-level, so interpretation should stay narrow. Positive-year fraction is 100.0% in the source run.

Positive-year fraction	100.0%
Universe size	3,000
Validation dates	72

Research Interpretation

ROLE IN RESEARCH LIBRARY

Machine-learning ranking component inside the research library.

WHAT IT CAPTURES

Nonlinear interaction evidence between the source feature set and subsequent cross-sectional returns.

KNOWN LIMITATIONS

Model evidence depends on the training window, feature availability and replay assumptions. It is not a live trading specification.

The evidence supports retaining the signal in the research library where it can be compared with related components under the same assumptions.

Historical research output. Not investment advice. Not a live recommendation.

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