

XGBoost ML Model Validation Report v3

Individual Symbol Analysis - Deduplicated Data

Generated: January 08, 2026 at 06:42 PM

Based on Saleem's Validated 16-Feature Model (68.5% UP Target)

Metric	Result
Symbols Analyzed	8
Tests Passed (UP >= 65%)	0/8
Tests OK (UP 60-65%)	1/8
Average UP Accuracy	52.0%

Results Summary

Symbol	Data	Test%	UP%	DOWN%	Top Feature	Status
GOOGL	2015	52.6%	64.6%	37.8%	awesome_osc	OK
SPY	2015	58.8%	45.1%	78.0%	pivot_low_flag	NEEDS_REVIEW
QQQ	2014	52.9%	34.3%	79.0%	pivot_high_flag	NEEDS_REVIEW
QQQI	0	0.0%	0.0%	0.0%	N/A	ERROR
AAPL	2015	51.1%	53.8%	47.8%	pivot_low_flag	NEEDS_REVIEW
NVDA	2015	47.6%	54.0%	40.5%	macd_signal	NEEDS_REVIEW
TSLA	2015	53.1%	57.0%	49.0%	pivot_high_flag	NEEDS_REVIEW
AMZN	2015	51.6%	55.3%	47.3%	cci	NEEDS_REVIEW

Saleem's 16 Features:

awesome_osc, cci, macd, macd_cross, macd_histogram, macd_signal, mfi, momentum, rsi, rsi_overbought, rsi_oversold, rsi_slope, rsi_zscore, vwap_daily, pivot_high_flag, pivot_low_flag

Report: **GOOGL**

Metric	Value
Data Points	2015
Train/Test	1612/403
Train Period	2018-01-02 to 2024-05-29
Test Period	2024-05-30 to 2026-01-07
Class Balance	UP: 862 (53.5%), DOWN: 750 (46.5%)
Test Accuracy	52.61%
UP Accuracy	64.57%
DOWN Accuracy	37.78%
Precision	56.25%
Recall	64.57%
F1 Score	60.13%
CV Mean	51.94%
Status	OK

Top 3 Features:

- 1. awesome_osc: 0.1819
- 2. rsi_slope: 0.1610
- 3. cci: 0.1211

Confusion Matrix:

	Pred DOWN	Pred UP
Actual DOWN	68	112
Actual UP	79	144

Report: SPY

Metric	Value
Data Points	2015
Train/Test	1612/403
Train Period	2018-01-03 to 2024-05-30
Test Period	2024-05-31 to 2026-01-07
Class Balance	UP: 877 (54.4%), DOWN: 735 (45.6%)
Test Accuracy	58.81%
UP Accuracy	45.11%
DOWN Accuracy	77.98%
Precision	74.13%
Recall	45.11%
F1 Score	56.08%
CV Mean	57.46%
Status	NEEDS_REVIEW

Top 3 Features:

- 1. pivot_low_flag: 0.3834 [KEY]
- 2. pivot_high_flag: 0.3087 [KEY]
- 3. macd_cross: 0.0529

Confusion Matrix:

	Pred DOWN	Pred UP
Actual DOWN	131	37
Actual UP	129	106

Report: QQQ

Metric	Value
Data Points	2014
Train/Test	1611/403
Train Period	2018-01-03 to 2024-05-29
Test Period	2024-05-30 to 2026-01-07
Class Balance	UP: 894 (55.5%), DOWN: 717 (44.5%)
Test Accuracy	52.85%
UP Accuracy	34.32%
DOWN Accuracy	79.04%
Precision	69.83%
Recall	34.32%
F1 Score	46.02%
CV Mean	57.46%
Status	NEEDS_REVIEW

Top 3 Features:

- 1. pivot_high_flag: 0.3824 [KEY]
- 2. pivot_low_flag: 0.3369 [KEY]
- 3. rsi: 0.0426

Confusion Matrix:

	Pred DOWN	Pred UP
Actual DOWN	132	35
Actual UP	155	81

Report: QQQI

Error: No data found

Report: AAPL

Metric	Value
Data Points	2015
Train/Test	1612/403
Train Period	2018-01-02 to 2024-05-29
Test Period	2024-05-30 to 2026-01-07
Class Balance	UP: 852 (52.9%), DOWN: 760 (47.1%)
Test Accuracy	51.12%
UP Accuracy	53.81%
DOWN Accuracy	47.78%
Precision	56.07%
Recall	53.81%
F1 Score	54.92%
CV Mean	50.00%
Status	NEEDS_REVIEW

Top 3 Features:

- 1. pivot_low_flag: 0.2121 [KEY]
- 2. pivot_high_flag: 0.1247 [KEY]
- 3. awesome_osc: 0.0631

Confusion Matrix:

	Pred DOWN	Pred UP
Actual DOWN	86	94
Actual UP	103	120

Report: NVDA

Metric	Value
Data Points	2015
Train/Test	1612/403
Train Period	2018-01-02 to 2024-05-29
Test Period	2024-05-30 to 2026-01-07
Class Balance	UP: 873 (54.2%), DOWN: 739 (45.8%)
Test Accuracy	47.64%
UP Accuracy	53.99%
DOWN Accuracy	40.53%
Precision	50.44%
Recall	53.99%
F1 Score	52.15%
CV Mean	50.60%
Status	NEEDS_REVIEW

Top 3 Features:

- 1. macd_signal: 0.1683
- 2. momentum: 0.1670
- 3. macd: 0.1662

Confusion Matrix:

	Pred DOWN	Pred UP
Actual DOWN	77	113
Actual UP	98	115

Report: TSLA

Metric	Value
Data Points	2015
Train/Test	1612/403
Train Period	2018-01-02 to 2024-05-29
Test Period	2024-05-30 to 2026-01-07
Class Balance	UP: 837 (51.9%), DOWN: 775 (48.1%)
Test Accuracy	53.10%
UP Accuracy	57.00%
DOWN Accuracy	48.98%
Precision	54.13%
Recall	57.00%
F1 Score	55.53%
CV Mean	49.63%
Status	NEEDS_REVIEW

Top 3 Features:

- 1. pivot_high_flag: 0.2111 [KEY]
- 2. rsi: 0.1271
- 3. macd: 0.1168

Confusion Matrix:

	Pred DOWN	Pred UP
Actual DOWN	96	100
Actual UP	89	118

Report: AMZN

Metric	Value
Data Points	2015
Train/Test	1612/403
Train Period	2018-01-02 to 2024-05-29
Test Period	2024-05-30 to 2026-01-07
Class Balance	UP: 855 (53.0%), DOWN: 757 (47.0%)
Test Accuracy	51.61%
UP Accuracy	55.35%
DOWN Accuracy	47.34%
Precision	54.59%
Recall	55.35%
F1 Score	54.97%
CV Mean	50.00%
Status	NEEDS_REVIEW

Top 3 Features:

- 1. cci: 0.1459
- 2. macd: 0.1393
- 3. momentum: 0.1360

Confusion Matrix:

	Pred DOWN	Pred UP
Actual DOWN	89	99
Actual UP	96	119

Generated: 2026-01-08 18:42:20.994869

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