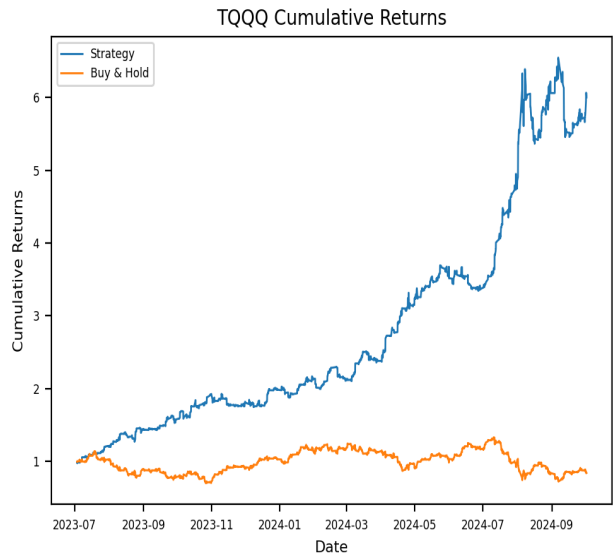
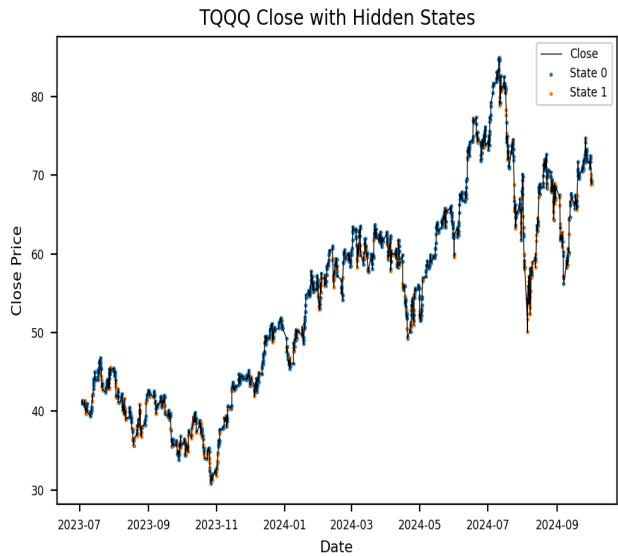
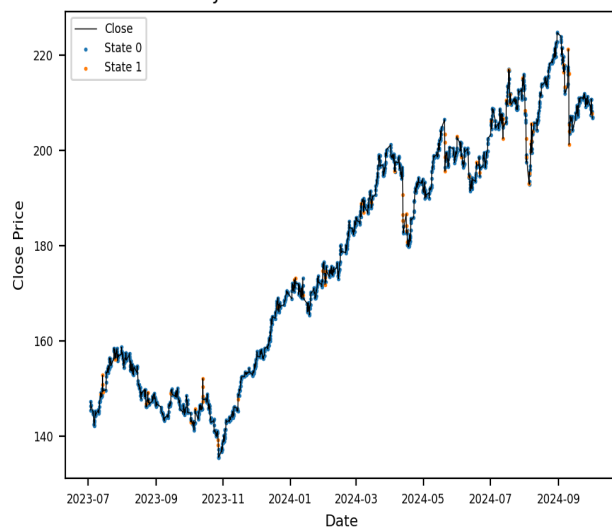


Individual HMM Model Performance Report

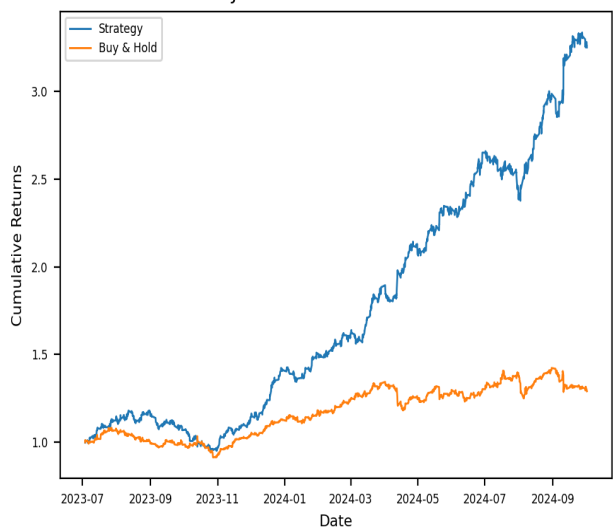
| Ticker | Strategy Return | Buy & Hold Return | Outperformance | Sharpe Ratio | Max Drawdown |
|--------|-----------------|-------------------|----------------|--------------|--------------|
| TQQQ | 500.31% | -16.21% | 516.52% | 19.58 | -16.68% |
| JPM | 225.06% | 29.06% | 196.00% | 15.61 | -19.75% |
| NVDA | 224.02% | 2.33% | 221.69% | 9.65 | -14.29% |
| AAPL | 215.38% | 12.83% | 202.54% | 14.68 | -10.07% |
| V | 204.97% | 11.40% | 193.57% | 13.72 | -11.74% |
| QQQ | 192.63% | -1.23% | 193.86% | 17.18 | -6.97% |
| MSFT | 184.85% | -11.94% | 196.78% | 12.35 | -8.85% |
| DIA | 164.96% | 13.47% | 151.48% | 12.84 | -13.04% |
| SPY | 137.48% | 5.21% | 132.27% | 11.78 | -10.18% |
| GOOG | 106.65% | 4.33% | 102.32% | 6.97 | -19.20% |
| XOM | 83.76% | -14.71% | 98.46% | 8.54 | -7.39% |
| JNJ | -22.68% | -6.27% | -16.40% | -1.79 | -38.48% |
| TSLA | -23.46% | -44.22% | 20.76% | -0.52 | -51.70% |
| META | -31.56% | 23.30% | -54.86% | -1.87 | -43.35% |



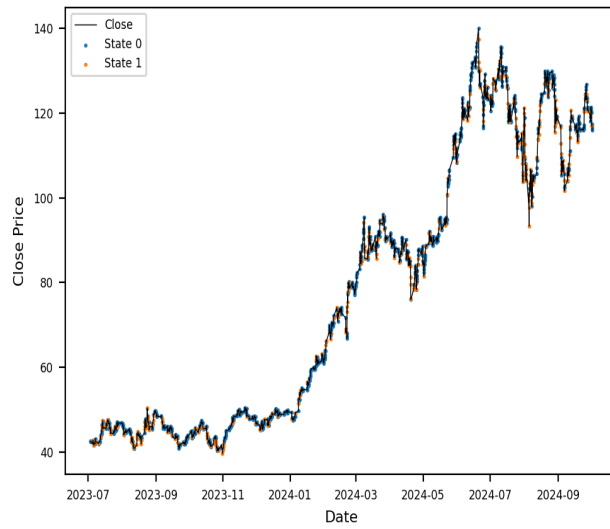
JPM Close with Hidden States



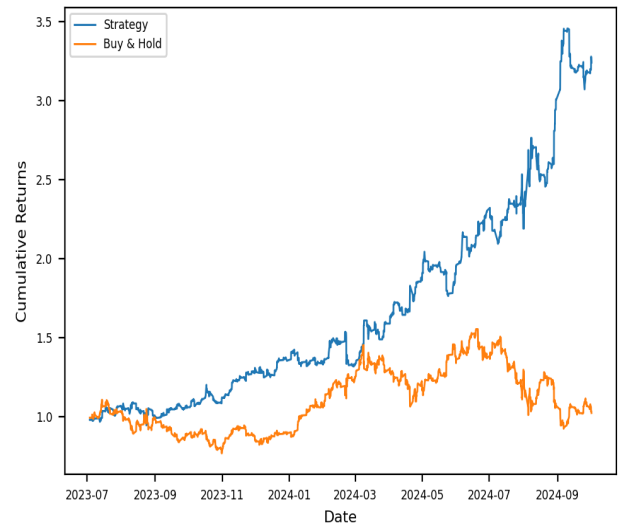
JPM Cumulative Returns



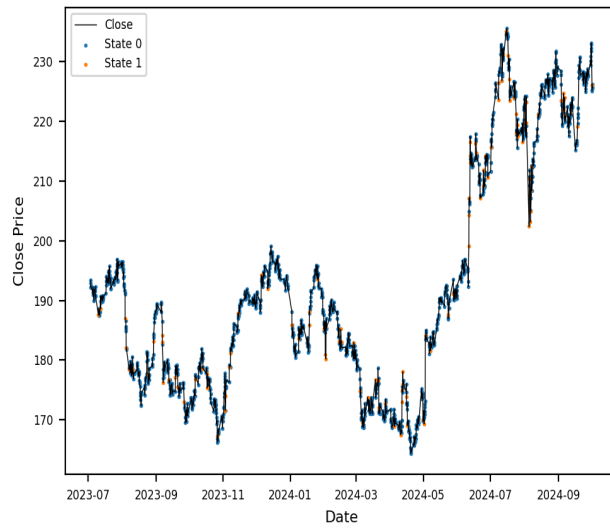
NVDA Close with Hidden States



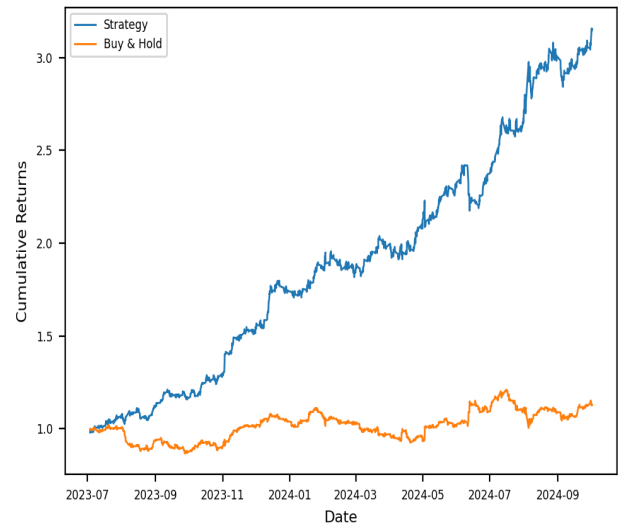
NVDA Cumulative Returns



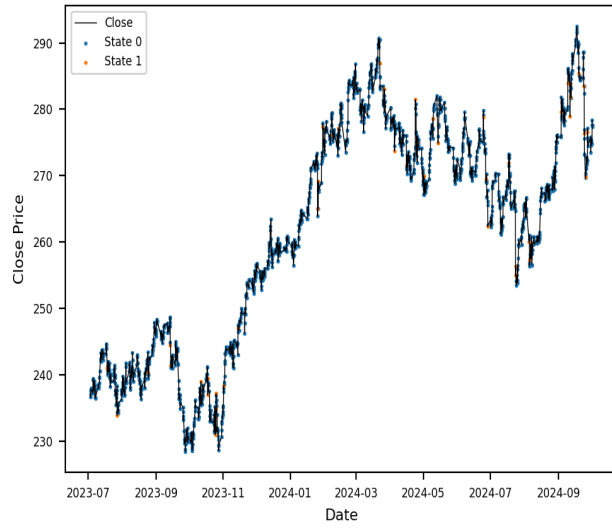
AAPL Close with Hidden States



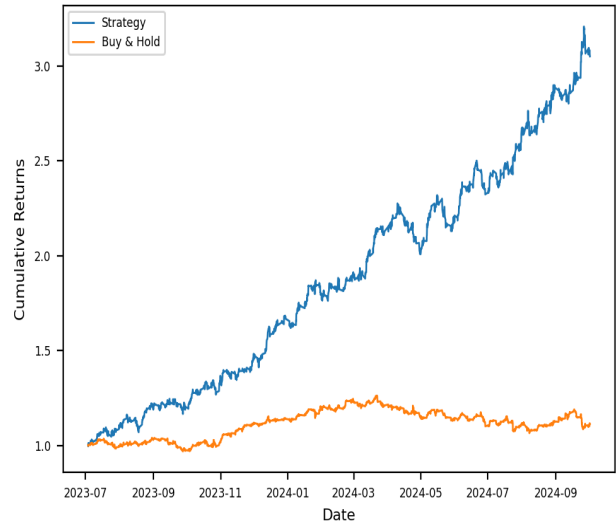
AAPL Cumulative Returns



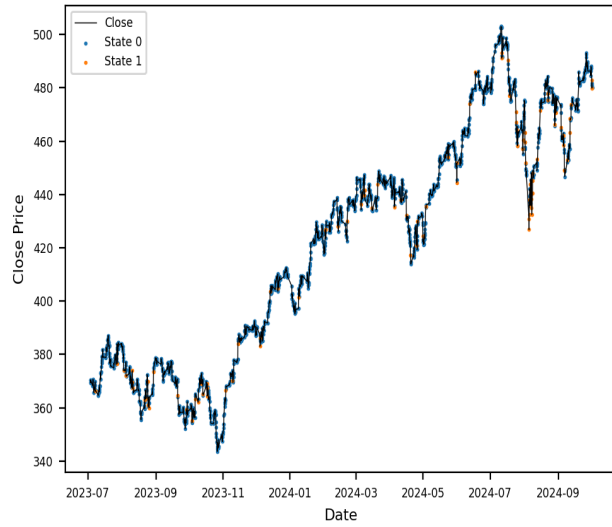
V Close with Hidden States



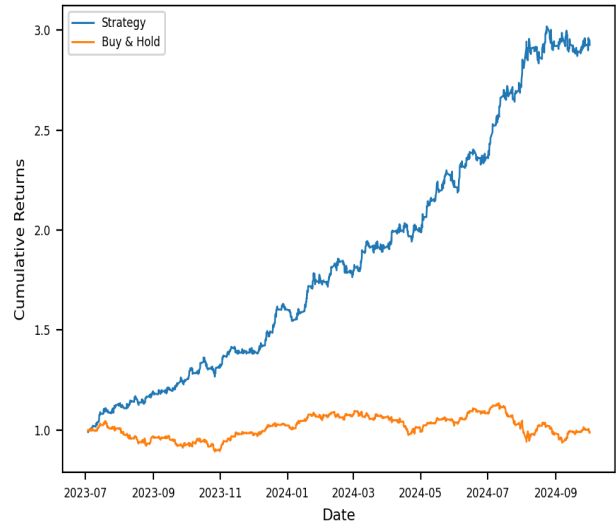
V Cumulative Returns



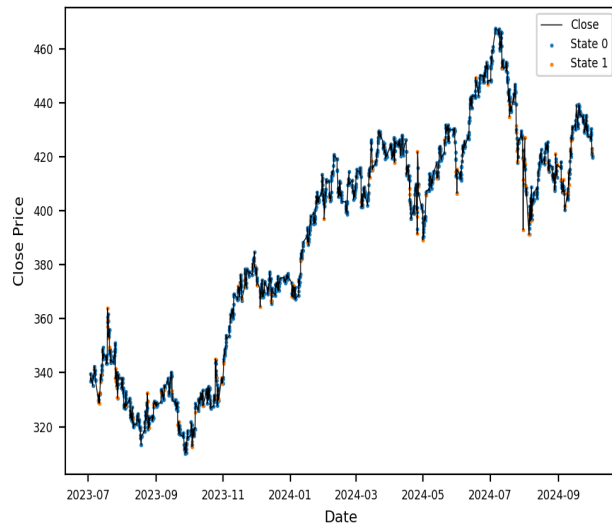
QQQ Close with Hidden States



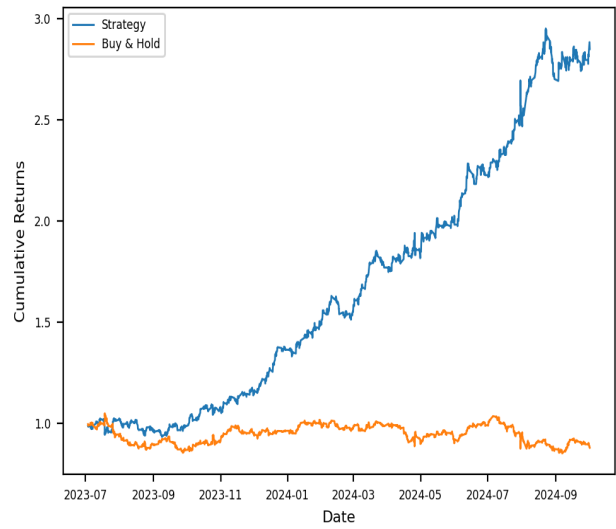
QQQ Cumulative Returns



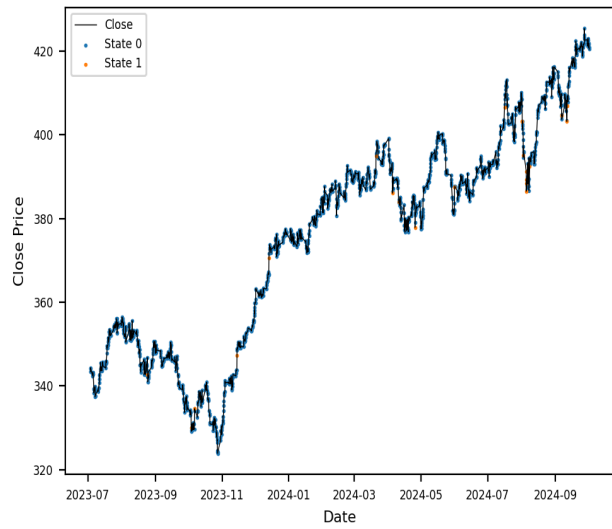
MSFT Close with Hidden States



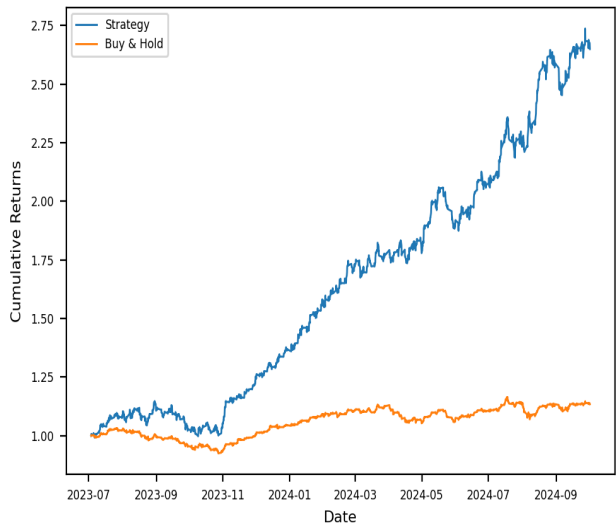
MSFT Cumulative Returns



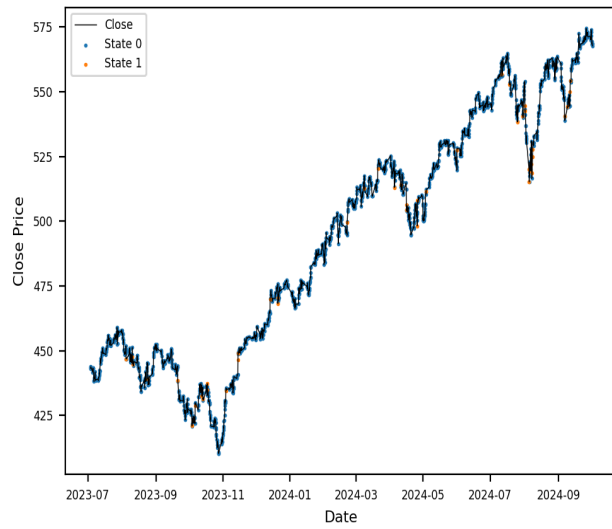
DIA Close with Hidden States



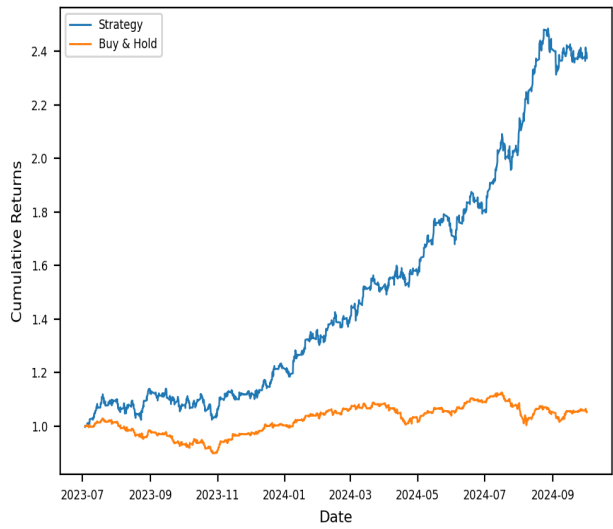
DIA Cumulative Returns



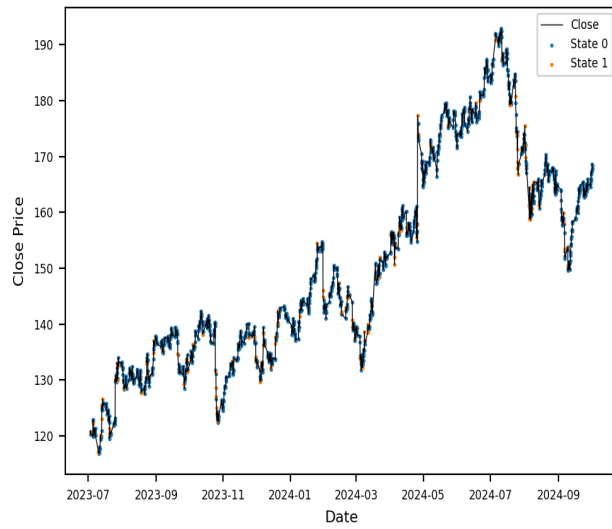
SPY Close with Hidden States



SPY Cumulative Returns



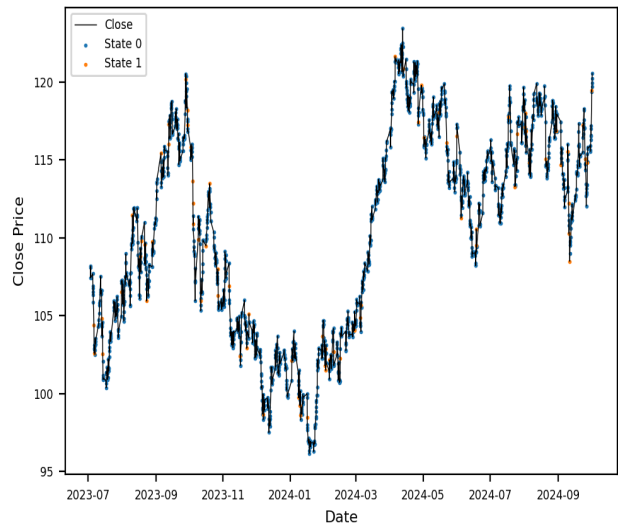
GOOG Close with Hidden States



GOOG Cumulative Returns



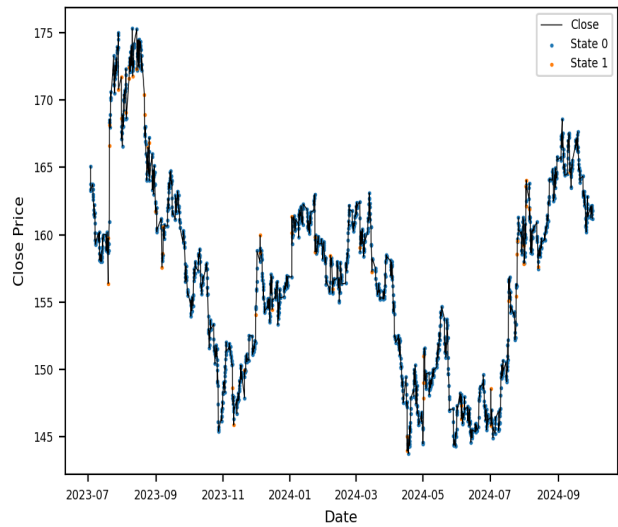
XOM Close with Hidden States



XOM Cumulative Returns



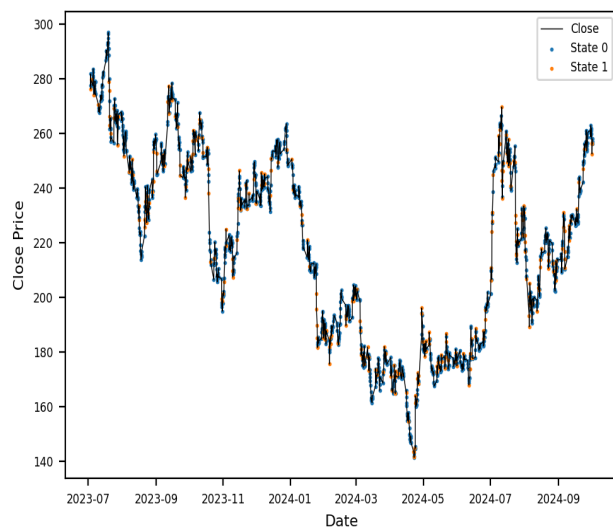
JNJ Close with Hidden States



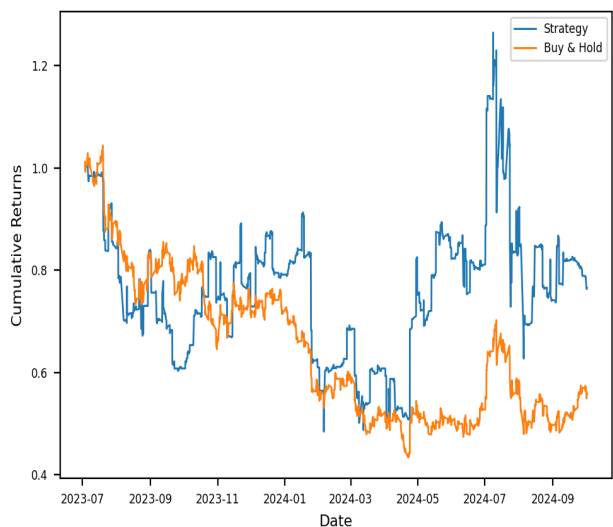
JNJ Cumulative Returns



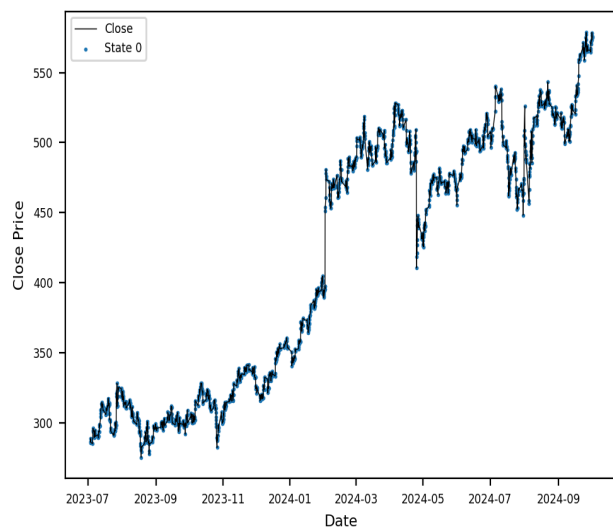
TSLA Close with Hidden States



TSLA Cumulative Returns



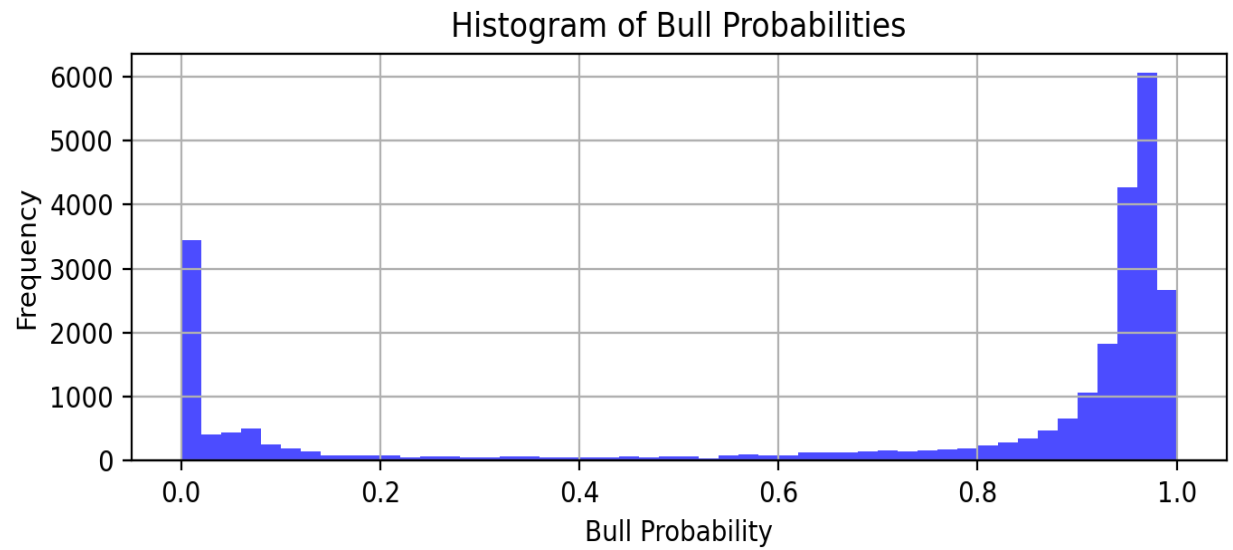
META Close with Hidden States



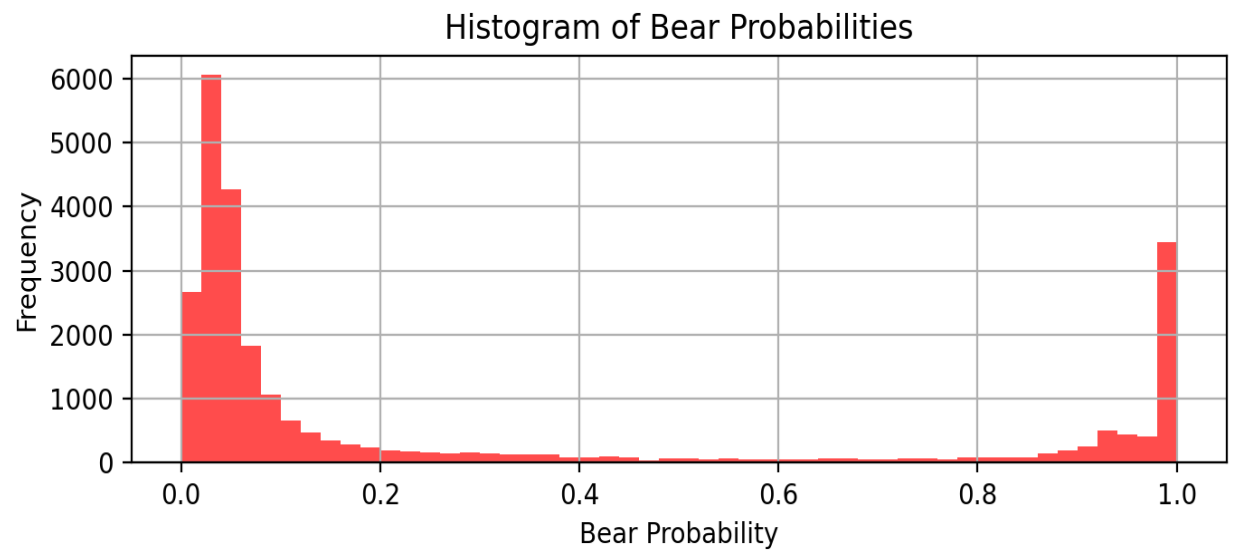
META Cumulative Returns



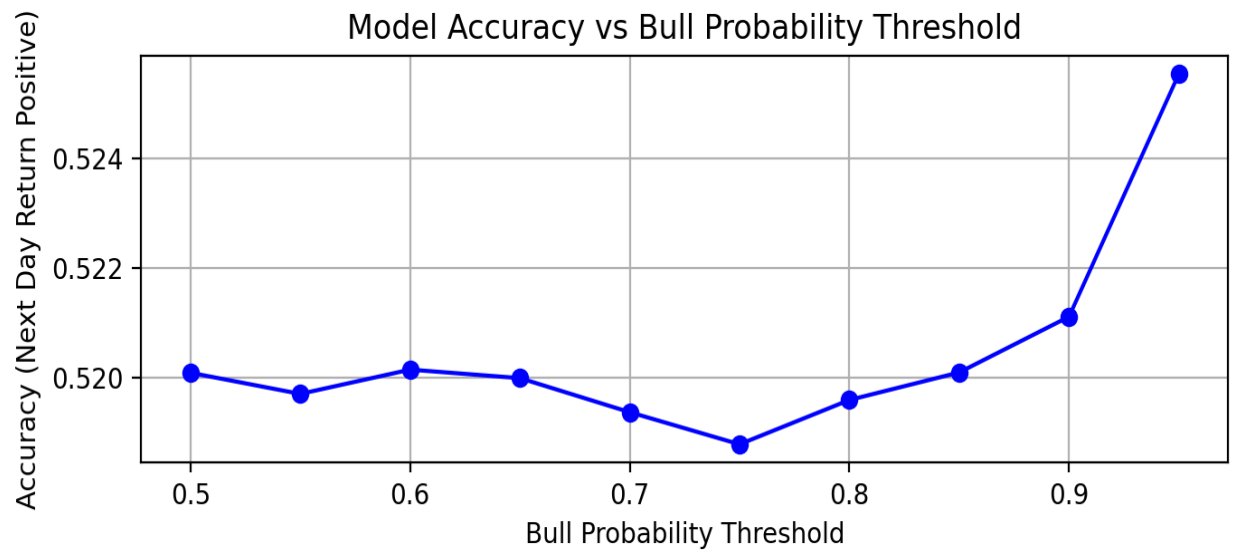
Histogram of Bull Probabilities



Histogram of Bear Probabilities



Model Accuracy vs Bull Probability Threshold



Model Accuracy vs Bear Probability Threshold

