

The Data

Target:

- High Volatility
- High Volume

Input Data

- Minute OHLCV Data for 16 ETFs since 2013 (Ticker)
- ~600,000 Financial News Articles since Dec. 2017 (Text)



ome Loans Enter Uncertain Era Authoritation and the prices have shot up in their incomes could afford. Painkiller Gets Pass Gets Pass

Bangladesh Redstone Heirs Take On Bigger Role Grandchildren gain influence in direction of media empire, await CBS-Viacom fortune





Dual Model Problem Statement

- Ticker Data
 - Hypothesis:
 - ▶ Morning Market behavior is indicative of intraday market behavior
- Text Data
 - Hypothesis:
 - Morning news is indicative of intra-day market behavior



lome Loans Enter Uncertain Era Painkiller

As the battle for control or

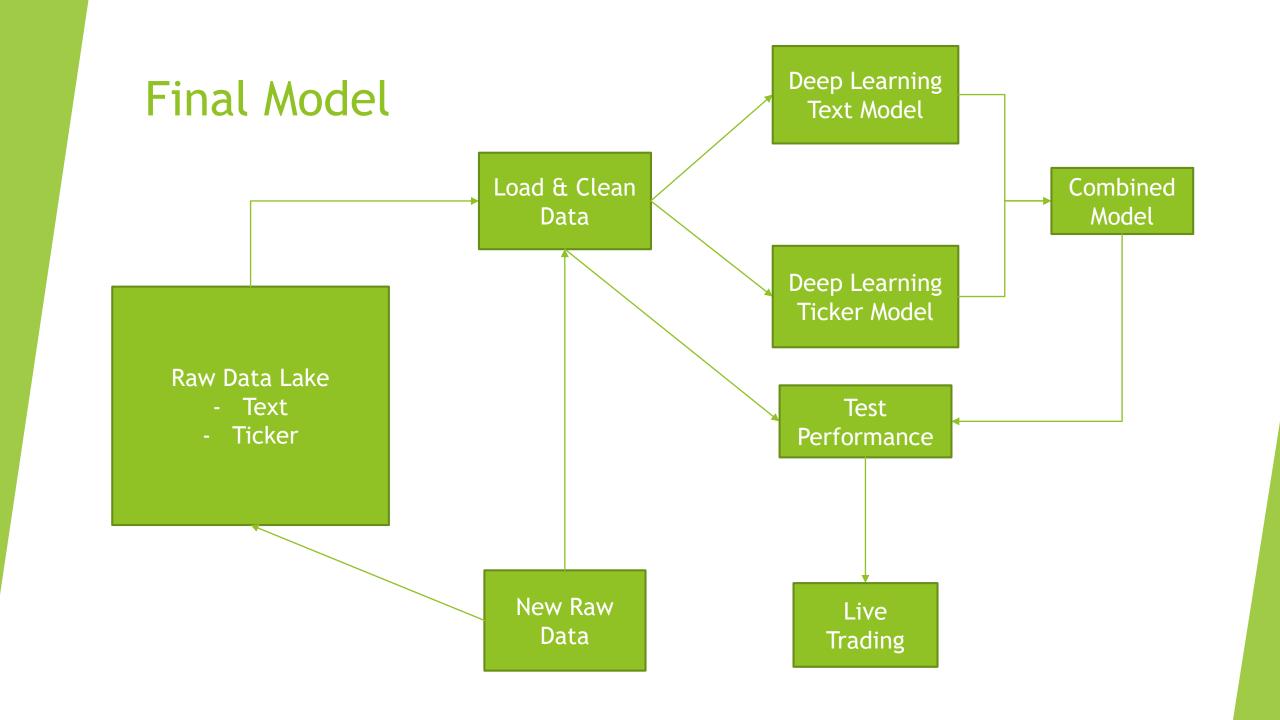


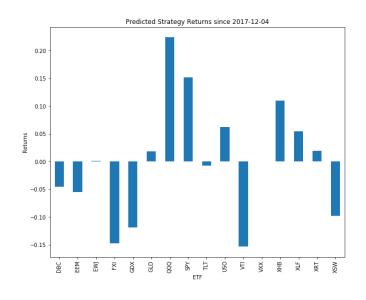


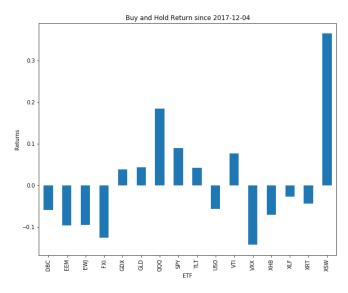
Bangladesh Redstone Heirs Take On Bigger Role

Relative Strength Index **Strategy**

- **RSI** Measures
 - Overbought (>70)
 - Oversold (<30)
- Performs well under
 - High Volume
 - High Volatility
- Strategy
 - Buy at 30
 - (Short) Sell at 70
 - Liquidate at End-of-Trading-Day







Model Performance

- Out-performed on 10 out of 16 ETFs
 - ▶ DBC, EEM, EWJ, QQQ, SPY, USO, VXX, XHB, XLF, XRT
- Results NOT statistically significant at 0.10 level
 - Daily and Weekly Returns

Recommendations



Data

Update ETF Universe

More News Sources

Alternative Text Data



Parameters

Capital Allocation
Volume & Volatility Cut-off
Stop Loss & Take Profit

Recommendations



Strategy

Optimized Underlying System Fit Models to Intra-Day Data



Performance

Risk Metrics
Sharpe Ratio
Max Draw-down