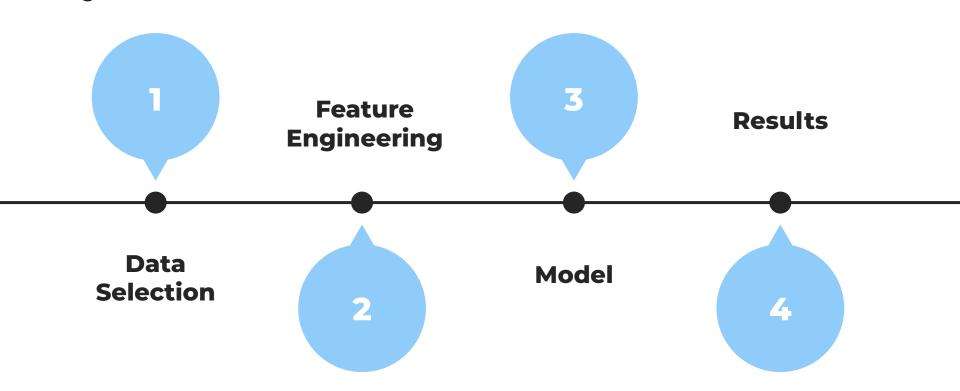


Business Objective

Predict Closing Stock Price of S&P 500 companies



My Process



Data Selection

Stock Market Trading Data

Trading
History of
S&P 500 Stocks

S&P 500 Price History

Feature Engineering

Moving Averages

Trend Direction

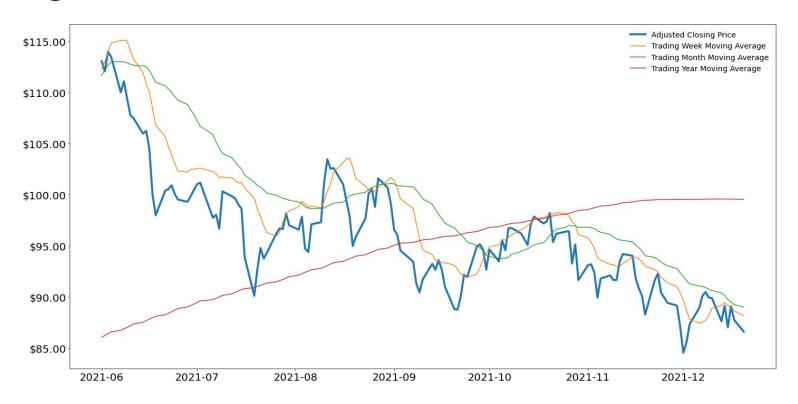
Relative Strength Index

Momentum

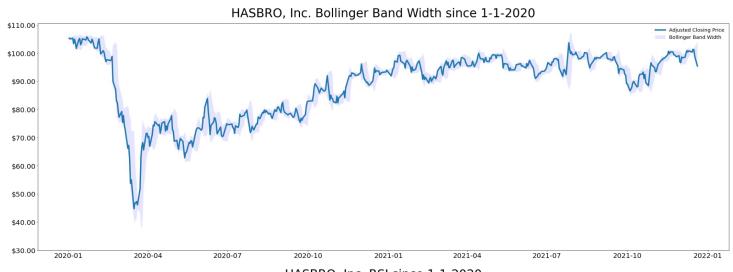
Bollinger Bands

Volatility

LyondellBasell Industries



HASBRO, Inc.



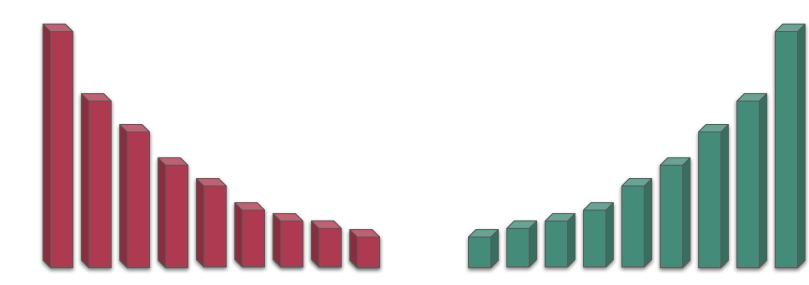


United States Macroeconomic Data

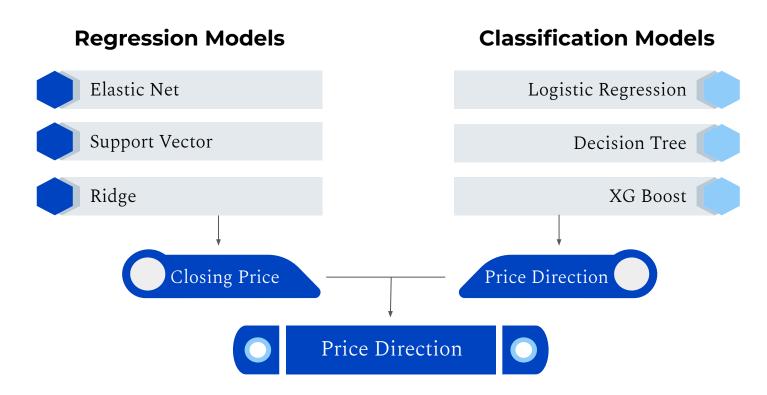
M2 Money Supply Federal Funds Rate Treasury Rate Personal Savings Rate Core Consumer Industrial Production Price Index

Model Selection

Baseline



6 Model Types

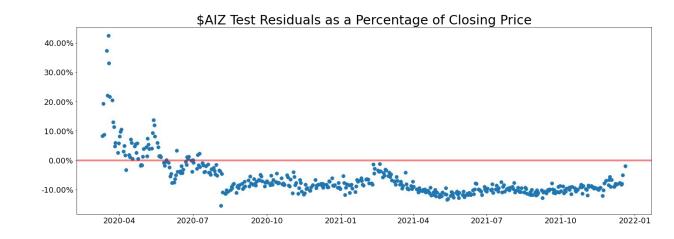




Regression Models

2%

Models with normally distributed residuals



Classification Models

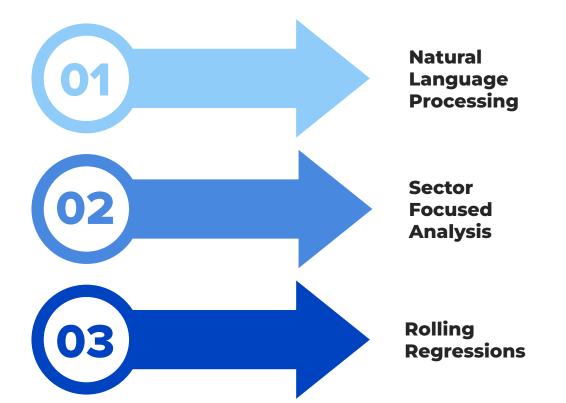
63

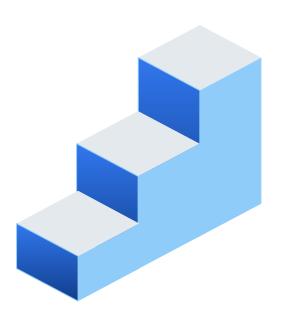
Models outperformed the baseline.

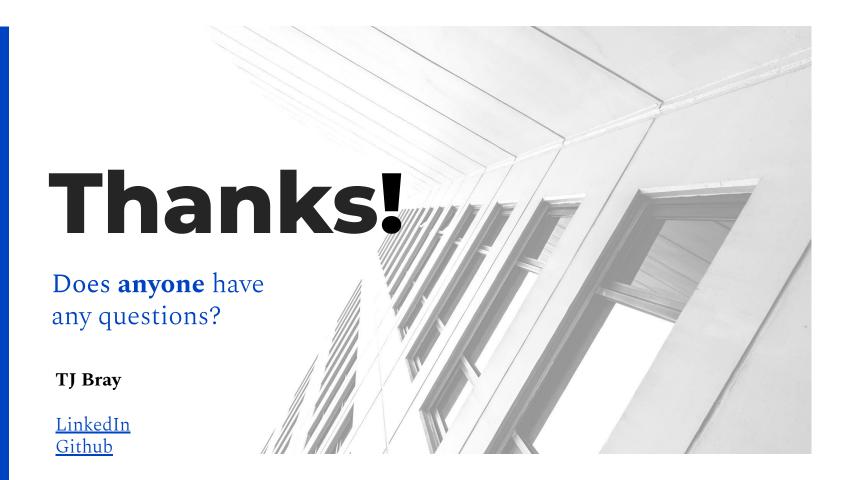


Outperformed the baseline model by **6.2%**

Next Steps







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Credits