

ALGORITHMIC TRADING

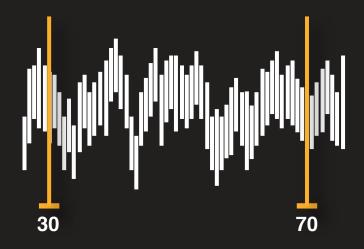
CS971: EVOLUTIONARY COMPUTATION FOR FINANCE

GARRY JAMES MCBRIDE

ALGORITHMIC TRADING

Algorithmic Trading is a method used when dealing with a larger order of data, which is too large to take on at one given time. Programming plays an important part in Algorithmic Trading as it involves different variables such as: Time, Price & Volume.







RSI

The Relative String Index (RSI) uses momentum to measure speed and change of price changes or movements within a stock. Between 0 and 100, it is overbought when above 70 and thus oversold when below 30, these levels can be adjusted to better fit the security of a stock in regards to the study of its trend.

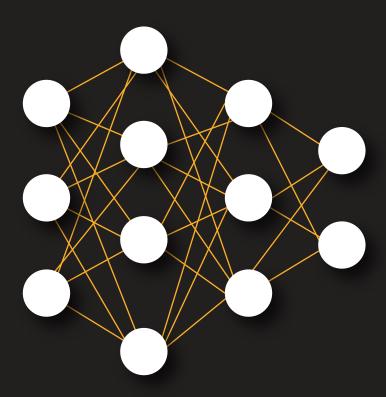
EMA

Exponential Moving Average (EMA) is a type of moving average (MA) which places a significant or greater weight on the vital most recent data points. Reacting more significantly to recent price changes (rather than older or less important) than a simple moving average (SMA).

NEURAL NETWORK

Neural networks are used for a vast amount of machine learning techniques such as; voice recognition or computer vision.

The Neural Network is fed information and passes it through layers to find its strongest matching value or asset.



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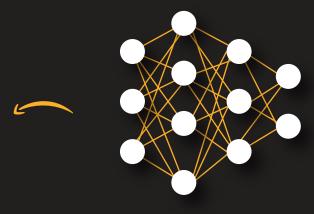


DATA ANALYSIS





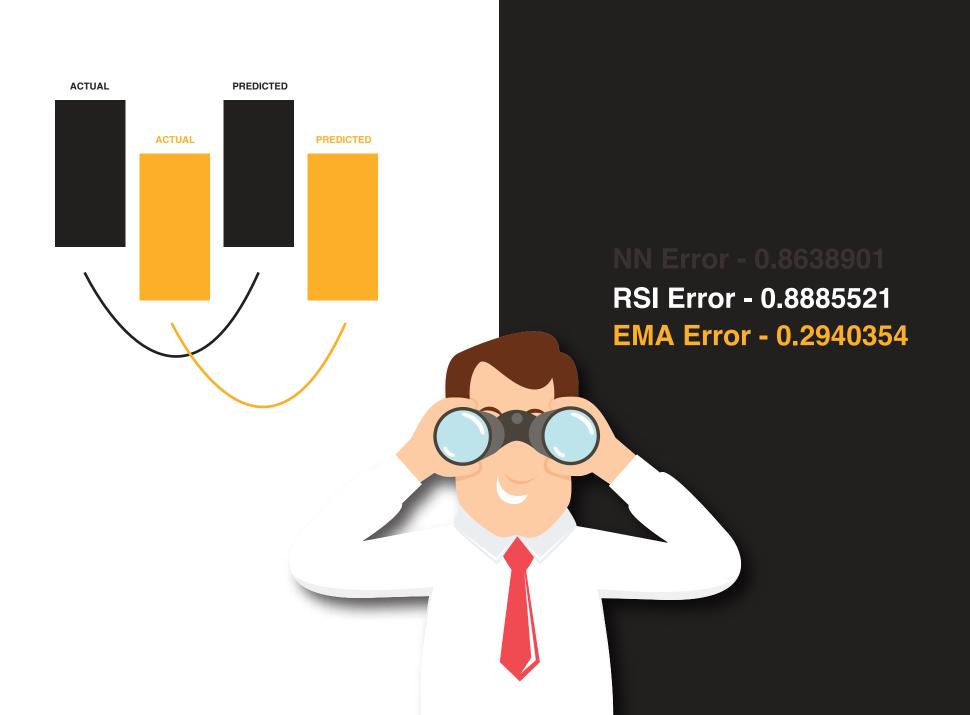




PREDICITONS

SPLITTING DATA

NEURAL NETWORK





Buy, Buy, Buy, Sell!, Buy, Buy, Buy, Sell!



Stocks left - 0 Profit - \$235.0701

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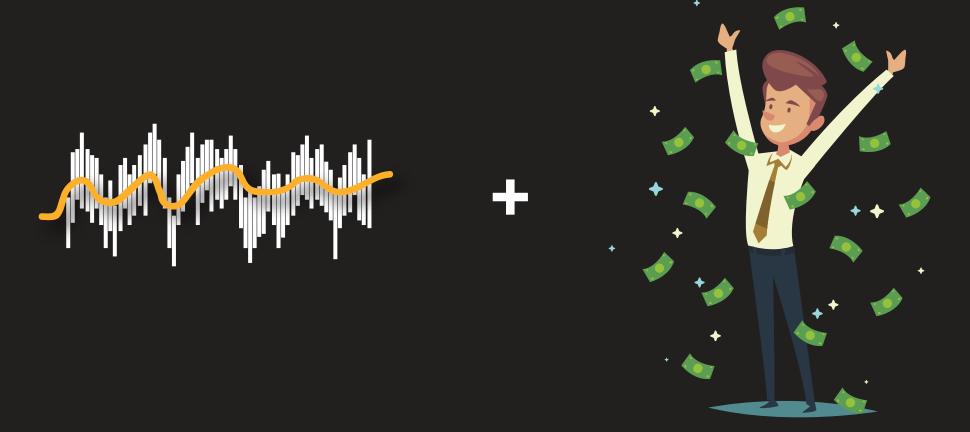


Buy, Buy, Buy, Sell!, Buy, Buy, Buy, Sell!



Stocks left - 0 Profit \$179.8

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THANK YOU!