Trading Cryptocurrencies Using Automated Algorithmic Bot

Sarafatema Peerzade[1], Dnyaneshwari Wayal[2], Gauri Kale[3], Prof. S. B. Bhosale[4]

Department of Computer Engineering

Jaihind College of Engineering, Pune, Maharashtra, India

Abstract: *The proposed project work is totally supported and easy yet effective strategy named as Martingale. An automatic system which only requires only some pre-coded instructions to execute trades on variety of market variables starting from asset price to trading volume. The strategy along with each cryptocurrency, the benchmark against which the algorithm is tested is that the market's performance. Returns are compared with the buying and so multiplying the trade volume at each loss and different scenarios are analysed to work out the chance related to the buying compared with an algorithmic strategy. Results are going to be in love with the market's actual trends and also with some alternate possible trends to check all market scenarios. An internet interface will accompany the presentation allowing the users to check the strategies by entering their parameters and instantly seeing the results.*

Keywords: Algorithm, Martingale Strategy, Stock Exchange, Cryptocurrency, Trailing Stop Loss, Crypto-to- Crypto Exchange, API.

REFERENCES

[1]. Ward Michael, "Algorithmic Trading For Cryptocurrencies"(2018). Undergraduate Honors Capstone Projects, 453. https://digitalcommons.usu.edu/honors/453.

[2]. "Testing The Local Martingale Theory using Cryptocurrencies". ~Soon Hyeok CHoi (Cornell University) - SC Johnson College Of Business; Robert Jarrow - Cornell SC Johnson College Of Business (October 20, 2020).

[3]. "Forecasting and Trading Cryptocurrencies with Machine Learning under changing market conditions." ~Helder Sebastiao and Pedro Godinho https://doi.org/10.1186/s40854-020-00217-x

[4]. Binance Academy : https://academy.binance.me/en

[5]. Martingale Strategy https://en.wikipedia.org/wiki/Martingale_(betting_system).

[6]. "Deep Reinforcement Learning for Active High Frequency Trading" -Antonio Briola, Jeremy Turiel, Riccardo Marcaccioli, Tomaso Aste-Department of Computer Science, University College London, London, UK

[7]. Farida Sabry, Wadha Labda, Aiman Erbad, and Qutaibah Malluhi -Department of Computer Science and Engineering, Qatar University, Doha, Qatar.

[8]. Thomas E. Koker and Dimitrios Koutmos, Worcester Polytechnic Institute, Worcester, MA 01609, USA; tekoker@wpi.edu 2 Department of Accounting, Finance, and Business Law, College of Business, Texas A&M University–Corpus Christi, Corpus Christi, TX 78412, USA Correspondence: dimitrios.koutmos@tamucc.edu Received: 26 June 2020; Accepted: 31 July 2020; Published: 10 August 2020