



[02:41:42] =====
REGISTRATION
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[02:41:44] NO. : WATUDATA/2024/Sem-1/RM/STK/001
REPORT TYPE : FREE SAMPLE
PROCESS : ANALYSIS DATA
METHOD/MODEL : Multiple Linear Regression (MLR)
CASE : Intel
SYMBOL : INTC (as the dependent variable: INTC_High)
SECTORAL : Information Technology

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QUESTION / WHAT WANT TO FIND

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WHAT VARIABLE OR FACTORS INFLUENCE INTC_High MOVEMENT?

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ABOUT THE DATA USED*

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SOURCE : <http://www.standardandpoors.com/prot/spf/docs/indices/SPUSA-500-USDUF--P-US-L--HistoricalData.xls>
TYPE : SECONDARY DATA
POPULATION : Stock price movement from listed companies in S&P500
PERIOD : 2018 to 2023 in the day, with 2012 variable found
SAMPLE : 2018 to 2022 in the day, with 1968 variable found
TESTING : 2023 (January to August) in the day

*NOTE: For more details see folder Attachment/Summary_Data.pdf

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SCHEME ANALYSIS RESULTS

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Analysis Results INTC

|
|__A) Analysis Results INTC_Close (as the dependent variable)
| |
| |__Line Chart, Model, Pie Chart, Table
|
|__B) Analysis Results INTC_High (as the dependent variable)
| |
| |__Line Chart, Model, Pie Chart, Table
|
|__C) Analysis Results INTC_Low (as the dependent variable)
| |
| |__Line Chart, Model, Pie Chart, Table
|
|__D) Analysis Results INTC_Open (as the dependent variable)
| |
| |__Line Chart, Model, Pie Chart, Table
|
|__S U M M A R Y



[02:43:55] =====
IMPORTANT TERMS
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[02:43:56] Variable => is concerned with variation in presence of something in person, object, animal, place or situation or in any natural phenomena. It can be defined as, a characteristic under study of which an identity or value changes or is possible to change per unit is called variable. Variable is a characteristic that varies in the context of its value or identity.

Data => are the events recorded in the world. Anything that can be measured or even categorized can be converted into data. Or data are the actual values of the variable. They may be numbers or may be words or others.

Secondary Data => means data collected by someone else earlier.

Population => is any specific collection of objects of interest.

Sample => is any subset or subcollection of the population, including the case that the sample consists of the whole population.

Dependent Variable/Dep. Variable/Explained Variable => The variable to be explained, that we want to understand or predict.

Independent Variable/Ind. Variable/Explanatory Variable => The factors that influence the dependent variable.

Multiple Linear Regression (MLR) => is regression model used to study the linear relationship between a dependent variable and two or more independent variables. It is used to identify the strength of the relationship between the variables and to predict the dependent variable.

R-square test => is used to determine the goodness of fit in regression analysis. How better regression model is fitted to the data points. The R-squared value is the proportion of the variance in the response variable that can be explained by the predictor variables in the model. More is the value of R-square near to 1, better is the model. R-square value is commonly reported when performing multiple linear regression (MLR).

Adjusted R-square/Adj. R-square test => is a modified version of R-squared that has been adjusted for the number of predictors in the model. Whose value increases if new predictors tend to improve models performance and decreases if new predictors do not improve performance as expected. The Adjusted R-squared can tell how useful a model is, adjusted for the predictors in a model.

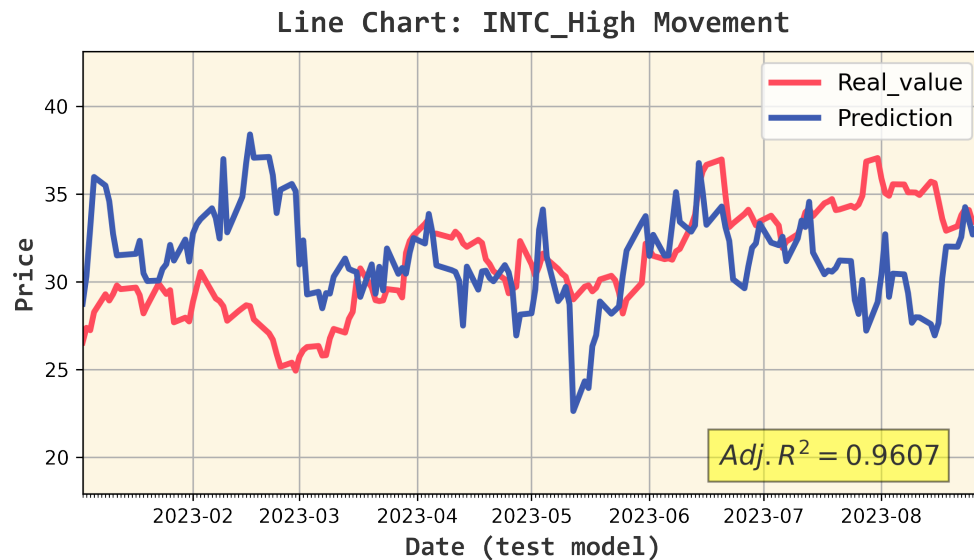
Unidentified => this means is a condition in a table row, where the symbol is known but the name or sector or both are unknown.

Other/Other Variables/Other Factors => means is variables that are outside the independent variables of the regression model.



[02:41:48] =====
B.01) Analysis Results INTC_High

[02:41:52] |__Line Chart : Real Value and Prediction Value
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[02:42:06] =====
B.02) Analysis Results INTC_High

[02:42:09] |__Prediction Model: Multiple Linear Regression (MLR)*
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#              THIS IS JUST SAMPLE                               #  
#                                                                 #  
#              FOR MORE DETAILS                                  #  
#                                                                 #  
#              ----- AVAILABLE ON THE REPORT MODEL BY ORDER/BUY ----- #  
#                                                                 #  
#                                                                 #  
#                                                                 #  
#####
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*NOTE: For support Python Programming Language,
see folder Attachment/INTC_High_for_Python.txt

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[02:42:15] =====
B.03) Analysis Result INTC_High
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[02:42:17] |__Pie Chart : Total Proportion Ind. Variable
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#                                                     #
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#               THIS IS JUST SAMPLE                  #
#                                                     #
#               FOR MORE DETAILS                      #
#                                                     #
#       ----- AVAILABLE ON THE REPORTS BY ORDER/BUY ----- #
#                                                     #
#                                                     #
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[02:42:23] =====
B.04) Analysis Result INTC_High
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[02:42:25] |__Pie Chart : Total Proportion Ind. Variable
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      |__Pie Chart : Proportion Ind. Variable Based Sectoral
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#                                                     #
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#               THIS IS JUST SAMPLE                  #
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#               FOR MORE DETAILS                      #
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#       ----- AVAILABLE ON THE REPORTS BY ORDER/BUY ----- #
#                                                     #
#                                                     #
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[02:42:30] =====
B.05) Analysis Result INTC_High
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      |__ Table: Contribution(%) Ind. Variable Based Sectoral
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#              THIS IS JUST SAMPLE                               #
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#              FOR MORE DETAILS                                  #
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#              ----- AVAILABLE ON THE REPORTS BY ORDER/BUY ----- #
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#####
#                                                                 #
#              A T T E N T I O N                                #
#                                                                 #
#              This report prepared by WatuData. We are not responsible for any #
#              form of loss you experience from using this report. Because all #
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#                                                                 #
#####
```