

# To Study the Development of the Leading Tech Stocks Performance Growth in Comparison Against the Market Index of NYSE

Dr Yeoh Wee Win<sup>1</sup>

1 MCMI, B. Comm (Acc), MBA (Fin), D.Man, DBA  
School of Business (SOBIZ),  
INTI International College Penang (IICP)

## Abstract

The research had been initiated to study the development of the leading tech stocks performance growth in comparison against the market index of New York Stock Exchange (NYSE). The research outlook had been highlighted from the problem statement arises emphasizing on the research questions addressing the gap in the understanding on the relationship between the tech stocks performance and market index performance as well as testing for the presence in the higher performance in the tech stocks industry towards the market benchmark. With the research objective being designed, the methodology of the research had proposed on the application of the quantitative study including the reliability test, correlation analysis and regression analysis. The study will include the sample of 15 stocks from the tech industry using selective sampling to identify the leading tech companies where the data collection will include the timeline of ten years from 2011 to 2020. In addition, the comparative analysis had been introduced to extend the study to create the clear comparison between the performance growth between the tech stocks and the market index of NYSE. The findings and results for the study had been contributing to the understanding on the presence of the significant positive relationship between the major tech stocks and the NYSE market index. In addition, the comparative analysis had shown sufficient evidence to conclude that the tech stock growth is consistently achieving higher growth and return over the market index growth over the past ten years. The outcome of study had concluded that the higher potential growth over other industries which could signal the future trend of tech industry growth moving forward into the future.

**Keywords:** New York Stock Exchange, tech industry, stocks, technology, leading tech companies.

## INTRODUCTION

In recent years, the tech industry expanded significantly as corporations expanded their operations in response to the rising demand for technology gadgets and software. This demonstrated the significance of the technology industry's influence on the company's performance (Patel et al., 2015). The recent pandemic caused by the Covid-19 virus has made the majority of investors aware of the growth potential of technological companies, as the epidemic has provided new commercial opportunities for these companies (Ismail et al., 2020).



Microsoft, Alphabet, and Facebook are gathering momentum to generate more commercial revenue as a result of the current circumstances (He et al., 2020). This resulted in investors focusing more on investing in tech firms with boundless potential and technological advancements that reflected a positive outlook for the future of the business, directing their purpose to invest in the tech industry's leading players (Mithas & Rust, 2016). This prompted additional research to comprehend the impact of opportunities on the expansion of the company's worth and return on investment, resulting in this topic's research study.

The market index is likely to fluctuate over time, which will be influenced by a variety of factors including economic condition, interest rate, political issues, etc. The recent Covid-19 pandemic, which has prevented the bulk of business sectors from functioning, has also had a substantial influence on the market index (Ismail et al., 2020). The market index measurement will aid the market in understanding both the current performance of the companies and the projected economic growth. Investors will anticipate a bigger return on their stock investments as the market index rises, as a result of which they will be more optimistic about the business's performance (Pilinkus, 2010).

The current trend had certainly suggested that the companies from the technology sector had been benefiting from the period of the pandemic where the demand for business technologies for both hardware and software as well as professional services had been significantly increased to meet the needs of the business (Ferrer et al., 2018). Besides, the rising of the competitiveness in the industry had pushed up the pressure for majority of the business to develop their improvement in the business process through the implementation of the technology application and facilities (He et al., 2020). Therefore, this had led to the expectations where the growth for the major tech companies is likely to surface above the par benchmarking the market performance. As reference to this, the stock prices for companies in tech industry and sector will likely to bloom above the market average signally the high potential growth of the tech companies in the market (Patel et al., 2015).

With this, the problem statement for the study had been addressed where the expectations of the performance of the tech stocks had still been a myth and yet to be proven in any previous study. Therefore, the doubt arises will need to be explored to identify the solid evidence to address the solution towards the research questions of the study. Despite the positive outlook for the technology companies' stock, it is still not evidence that the major leading tech companies are consistently having higher performance than the stock market average. This understanding is crucial for the academic and investors to identify the knowledge that will contribute to better decision making.

The research question for the study had been developed in aligned with the problem statement as addressed previously for the scope of study where the first research question will focus on "What is the relationship among the leading tech stock prices against the market index performance?". The second research question will address the question on "How is the overall trend of the performance leading tech stock against the market index performance?". These two research questions will form the objective of the research to investigate the relationship among the leading tech stock prices against the market index performance and to investigate the overall trend of the performance leading tech stock against the market index performance.



The outcome from the research findings will be further discussed with the research objectives to conclude the aim of the study.

### LITERATURE REVIEW

The New York Stock Exchange (NYSE) is a stock exchange that is located in New York City that is a major index for the world where the market index of NYSE is regard as the largest equities-based exchange in the world, which is based on the measurement of the total market capitalization of its listed securities (He at al., 2020). The NYSE is a major index for the world where the market index of NYSE is regard as the largest equities-based exchange in the world (Kenton, 2021). This demonstrated the significance of the market index in relation to the world market index, which is where the big players of the US multinational corporations are being publicly listed in the NYSE stock market. The New York Stock Exchange (NYSE) is currently accomplishing an average of over \$1.46 billion in trading activities on the stock market each and every day. There were over 2,800 firms that were part of the NYSE stock market's listing, and it was estimated that the total market capitalization of all of those companies was \$24.5 trillion (Tretina & Curry, 2021). This demonstrated the vast magnitude of the market transactions, which will show a substantial contribution to the business all over the world, particularly when multinational corporations that are active all over the world are involved.

**Figure 1 New York Stock Exchange (NYSE) Market Index**

#### 5-Year Performance - Total Return

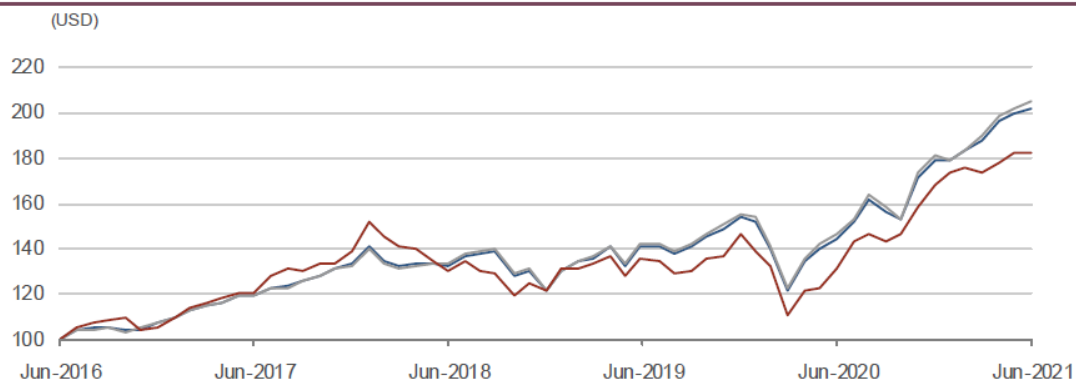


Figure 1 presented a historical look at the data for the NYSE market index throughout the course of the most recent five years in a timeline format. The NYSE market index had demonstrated consistent growth from the middle of 2016 until the early 2020 before experiencing a market crash in the early 2020 due to the Covid-19 pandemic situation demonstrating the extremely sharp drop in the market index indicating the poor performance of the majority of the company's business during the pandemic period (Dai et al., 2020). Despite this, the NYSE market index has showed significant growth at a rapid speed since 2020, following the market crash, indicating a strong sign of recovery on the market and in the stock pricing for the companies that are listed. Because the technology sector contributes the bulk of the weightage to the NYSE index, a rapid increase in the market index is likely to imply robust



development in the technology sector (He et al., 2020). This is because the technology sector contributes the most weightage to the index.

Zeghal and Maaloul (2010) have previously determined which major factors in the NYSE market index should be used as performance indicators for individual stocks. The rise in the market index shows a higher percentage of the likelihood of a potential increase in the stock pricing listed on the stock market. The basic method for determining how well a stock has performed is to compare its current price to its starting price and then to measure how much higher its current price is than its starting price. Kara, Boyacioglu, and Baykan (2011) were in agreement with the position that the market index, which includes the NYSE stock market, is regarded as valid data to anticipate the direction of the stock pricing. The same trend was seen on the Istanbul Stock Market, indicating that there is a significant relationship between the market index and the stock prices of the companies.

According to the findings of Ali et al. (2010), the relationship between the market index and the reflection of the current state of the global economy has been of great relevance. The proof can be referred to the earlier financial crisis that occurred in 2008, when the market index for the NYSE was displaying a similar association with the economic recession that was occurring in the United States as a direct result of the subprime mortgage crisis (Dai et al., 2020). With reference to Figure 1, a similar observation was made once again, which showed that the Covid-19 pandemic had caused a huge recession in the economy, as indicated by the indicator in the NYSE market index, which showed a drop in the market index movement (Ismail et al., 2020). The information presented here demonstrates that there is a significant suggestion on the performance indicator between the market index and the economy. Pilinkus (2010) had suggested that the NYSE market index will be significant for other countries as well as the US market index had shown strong relation with the global economy where the businesses are highly dependent on the performance of the MNC showing the influence towards the stock pricing for the company. Pilinkus had suggested that the NYSE market index will be significant for other countries as well as the US market index had shown strong relation with the global economy.

**H0: There is no significant positive relationship between the leading tech companies' stock against the US market index.**

**H1: There is significant positive relationship between the leading tech companies' stock against the US market index.**

## **METHODOLOGY**

The quantitative analysis method will be the primary emphasis of the research design, and the numerical data that is collected will be incorporated into the measuring process for this research study. The data analysis is going to be derived from the financial data that was collected on the stock price and the market index. This is going to be done so that the significant can be identified through the data analysis by utilizing the quantitative technique (Apuke, 2017). The research will be able to provide more objective and definitive findings through the empirical result that is generated by the statistical output, and the quantitative analysis has extended the



ability to test large sets of data in a short period of time, reflecting the efficiency in conducting the data analysis for the research. The advantage of using the quantitative method is that the research will be able to provide these findings (Sekaran & Bougie, 2016). This research will also apply the deductive reasoning approach because this approach will help to draw the conclusion towards the proposed hypothesis in this research based on the logical reasoning with reference to the empirical evidence provided in the result. This research will also apply the inductive reasoning approach because this approach will help to draw the conclusion towards the proposed hypothesis in this research (Doyle, 2020).

The secondary data collecting approach, in which the data source is gathered from the many internet sources, will be the primary emphasis of the research that will be carried out. For the purpose of capturing the historical information pertaining to the preceding ten years and accurately reflecting the trajectory of this research study, we will be collecting historical data on stock prices beginning in the year 2011 and continuing through the year 2020. The use of secondary sources of information will be extremely beneficial to the research project, both in terms of saving time and effort during the process of primary data gathering (Sharela, 2016). Moving on to the sampling approach, the research will employ selective sampling to collect data from 15 different organisations to use as the dependent variable. This will be accomplished through the data collection sample. The study had a target to include the perspective and consideration of the researcher to target the selection of stocks focusing on major technology stocks from the stock market. For this reason, the selective sampling approach is preferred. The study had a target to include the perspective and consideration of the researcher. On the other hand, the market index of the New York Stock Exchange (NYSE) will become the benchmark for the study, which will assess its performance against the performance of the stock market average. When discussing the timeframe of this research's study, we will be referring to a historical period of ten years' worth of data. The data will be obtained from the secondary data market on a monthly basis which will create more significant trend in the data input for the quantitative study.

The quantitative data analysis will observe the application of the SPSS software will then be used to generate the relevant data analysis for this research to identify the significant in research as well as conducting the hypothesis testing for this research and achieving the conclusion for the research findings. The descriptive analysis will be focusing in exploring the statistics of the data output to understand the trend and pattern (Tan & Bogomolova, 2016). Besides, the reliability analysis had been conducted to provide the significant testing for the reliability and consistency of the data (Taderhoost, 2016). Moving on, the correlation analysis will be introduced as part of the quantitative analysis to create the view to identify the correlation relationship between the variables (Gogtay & Thatte, 2017). Last but not the least, the quantitative analysis will observe the application of the regression analysis to perform the hypothesis testing to draw the outcome of the study (Sekaran & Bougie, 2016).

In addition, the research methodology will extend the quantitative study to perform the comparative analysis to explore the comparison in terms of growth performance between the tech stock price growth against the market index growth in NYSE. This will create the significant insight to understand the higher or lower in the performance of the tech stocks



growth against the market benchmark to create the view to understand the consistency of the tech stocks growth and performance.

**DATA ANALYSIS**

**Table 1: Descriptive Analysis**

Descriptive Statistics							
	Range	Minimum	Maximum	Mean		Std. Deviation	Variance
	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic	Statistic
NVDA	132.31	2.99	135.30	27.6732	2.99384	32.79589	1075.570
AMD	90.94	1.72	92.66	15.4779	1.85484	20.31874	412.851
AAPL	120.70	11.99	132.69	36.5687	2.29479	25.13818	631.928
MSFT	200.64	24.89	225.53	73.6467	4.81597	52.75632	2783.229
INTC	44.36	19.57	63.93	36.0533	1.08776	11.91580	141.986
AMZN	3281.32	169.64	3450.96	942.0952	76.16823	834.38113	696191.873
IBM	102.37	110.93	213.30	161.2176	2.35177	25.76235	663.698
ORCL	39.04	25.65	64.69	41.9716	.80632	8.83280	78.018
AVGO	409.14	28.71	437.85	156.1331	9.85531	107.95946	11655.245
CSCO	40.45	15.50	55.95	31.1558	1.01942	11.16714	124.705
CRM	247.28	25.37	272.65	90.4310	5.08573	55.71136	3103.755
ADBE	489.22	24.17	513.39	144.8168	11.50805	126.06442	15892.237
VZ	26.11	35.29	61.40	49.2491	.59294	6.49536	42.190
V	201.27	17.46	218.73	89.6934	5.13505	56.25165	3164.248
T	16.27	27.02	43.29	34.3695	.33834	3.70631	13.737

The descriptive study of 15 major companies in the technology industry was presented in Table 1. These companies were chosen because they are among the most successful businesses in the sector. According to the results of analysing the monthly data for the previous 10 years, from 2011 to 2020, the lowest range of data was 16.27, and the maximum range of data was 3281.32. The data showed a range from the lowest mean of 15.4779 to the greatest mean of 942.0952 for the mean, while the standard deviation showed a range from the lowest value of 3.70631 to the highest value of 834.38113 for the standard deviation. This demonstrated that the attributes for the data for all 15 of the tech companies had been distributed with a high and low range of values to provide a fair distribution of data for the purpose of representing the population in the study. This was done for the purpose of providing a representation of the population.

**Table 2: Reliability Test**



Reliability Statistics	
Cronbach's Alpha	N of Items
.954	4

Table 2 shows the results of the reliability test that were achieved for the independent variables. These variables include the market index from the technology companies that were chosen for this research. The results show that the Cronbach's Alpha for these variables was 95.4%, which is higher than the minimum threshold of 70% that is considered acceptable. Therefore, the reliability test had validated the quality and consistency of the data set for the independent variable, which provides the green light to proceed with the further stages of the data analysis for this research study. [Cause and effect] The reliability test had validated the quality and consistency of the data set for the independent variable.

**Table 3: Correlation Analysis**

Correlations			
		NYSE	Tech
NYSE	Pearson Correlation		.817**
	Sig. (2-tailed)		.000
	N		120
Tech	Pearson Correlation	.817**	
	Sig. (2-tailed)	.000	
	N	120	
**. Correlation is significant at the 0.01 level (2-tailed).			
*. Correlation is significant at the 0.05 level (2-tailed).			

The Table 3 had been showing the outcome in the correlation analysis where the correlation analysis had induced the need to understand the correlation between two variables including the study between the technology application against the job security for the employees. The result had shown that the Pearson Correlation Coefficient had recorded 0.817 which means that both variables are sharing moderate positive strength of correlation. The p-value test is 0.000 that appear to be lower than 5% tolerance level which means that there is proven significant for the existence of the positive correlation between the two variables.



**Table 5: ANOVA Stats**

ANOVA						
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	603613.853	1	603613.853	237.095	.000 <sup>b</sup>
	Residual	300412.863	118	2545.872		
	Total	904026.717	119			
a. Dependent Variable: Tech						
b. Predictors: (Constant), NYSE						

In Table 4, the ANOVA analysis for the linear regression analysis for the New York Stock Exchange (NYSE) against the performance of the technology companies was shown. The ANOVA recorded a p-value of 0.000, which is lower than the tolerance level of 5%, providing the empirical evidence that the model is significant for the research study. Table 4 also showed that the p-value was lower than the tolerance level of 5%.

**Table 5: Regression Analysis**

Model Summary				
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.817 <sup>a</sup>	.668	.665	50.45663
a. Predictors: (Constant), NYSE				

Table 5 presents the results of a linear regression model comparing the performance of tech businesses to that of the New York Stock Exchange (NYSE). The p-value of the variable recorded in this model is 0.000, which is significantly lower than the threshold of 5% tolerance. presenting the actual data where there is a considerable presence of a relationship between the market index of the New York Stock Exchange (NYSE) and the stock price of technology businesses. Because of this, the null hypothesis is proven to be false, and the alternative hypothesis, which is was drawn from the literature review as H1, is accepted.

**H0: There is no significant positive relationship between the leading tech companies' stock against the US market index.**

**H1: There is significant positive relationship between the leading tech companies' stock against the US market index.**





Table 6: Comparative Analysis

Date	NYSE	Tech Average	Variance	Tech Stock Performance
2/1/2011	3.68%	2.97%	-0.71%	Below Market Average
3/1/2011	-0.40%	-2.31%	-1.91%	Below Market Average
4/1/2011	3.17%	4.90%	1.73%	Above Market Average
5/1/2011	-2.24%	-0.06%	2.18%	Above Market Average
6/1/2011	-1.87%	-2.59%	-0.73%	Below Market Average
7/1/2011	-2.88%	-0.82%	2.06%	Above Market Average
8/1/2011	-6.82%	-3.96%	2.86%	Above Market Average
9/1/2011	-9.79%	-2.95%	6.83%	Above Market Average
10/1/2011	11.36%	10.18%	-1.18%	Below Market Average
11/1/2011	-1.04%	-2.50%	-1.46%	Below Market Average
12/1/2011	-0.10%	-2.81%	-2.71%	Below Market Average
1/1/2012	4.83%	8.99%	4.16%	Above Market Average
2/1/2012	3.51%	6.90%	3.39%	Above Market Average
3/1/2012	1.15%	4.94%	3.79%	Above Market Average
4/1/2012	-1.07%	-0.91%	0.16%	Above Market Average
5/1/2012	-8.07%	-6.88%	1.19%	Above Market Average
6/1/2012	4.53%	4.89%	0.36%	Above Market Average
7/1/2012	0.80%	-2.40%	-3.19%	Below Market Average
8/1/2012	1.92%	3.13%	1.21%	Above Market Average
9/1/2012	2.95%	0.18%	-2.77%	Below Market Average
10/1/2012	-0.36%	-7.08%	-6.72%	Below Market Average
11/1/2012	0.47%	2.24%	1.77%	Above Market Average
12/1/2012	2.22%	1.61%	-0.61%	Below Market Average
1/1/2013	5.34%	3.13%	-2.21%	Below Market Average
2/1/2013	-0.29%	0.24%	0.53%	Above Market Average
3/1/2013	2.69%	3.55%	0.87%	Above Market Average
4/1/2013	1.86%	2.06%	0.20%	Above Market Average
5/1/2013	0.27%	6.05%	5.77%	Above Market Average
6/1/2013	-2.04%	-1.39%	0.65%	Above Market Average
7/1/2013	4.90%	2.05%	-2.85%	Below Market Average
8/1/2013	-3.01%	-1.37%	1.64%	Above Market Average
9/1/2013	3.78%	5.60%	1.82%	Above Market Average
10/1/2013	4.04%	3.33%	-0.70%	Below Market Average
11/1/2013	1.73%	2.29%	0.56%	Above Market Average
12/1/2013	2.13%	5.22%	3.08%	Above Market Average
1/1/2014	-4.16%	-3.24%	0.92%	Above Market Average
2/1/2014	4.60%	5.26%	0.66%	Above Market Average
3/1/2014	0.98%	1.58%	0.60%	Above Market Average
4/1/2014	0.94%	-0.68%	-1.63%	Below Market Average
5/1/2014	1.22%	3.43%	2.21%	Above Market Average
6/1/2014	2.07%	2.89%	0.81%	Above Market Average
7/1/2014	-2.30%	-0.22%	2.08%	Above Market Average
8/1/2014	2.98%	5.07%	2.09%	Above Market Average

9/1/2014	-3.11%	-2.17%	0.94%	Above Market Average
10/1/2014	1.33%	0.01%	-1.32%	Below Market Average
11/1/2014	1.02%	5.23%	4.21%	Above Market Average
12/1/2014	-1.06%	-1.78%	-0.72%	Below Market Average
1/1/2015	-2.79%	-2.59%	0.20%	Above Market Average
2/1/2015	4.99%	11.15%	6.16%	Above Market Average
3/1/2015	-1.48%	-4.34%	-2.86%	Below Market Average
4/1/2015	1.38%	3.76%	2.38%	Above Market Average
5/1/2015	0.06%	2.95%	2.89%	Above Market Average
6/1/2015	-2.27%	-3.73%	-1.46%	Below Market Average
7/1/2015	0.71%	0.95%	0.24%	Above Market Average
8/1/2015	-6.49%	-3.65%	2.83%	Above Market Average
9/1/2015	-3.70%	0.28%	3.99%	Above Market Average
10/1/2015	6.75%	10.32%	3.57%	Above Market Average
11/1/2015	-0.49%	2.89%	3.38%	Above Market Average
12/1/2015	-2.56%	1.81%	4.36%	Above Market Average
1/1/2016	-5.03%	-7.01%	-1.97%	Below Market Average
2/1/2016	-0.76%	0.15%	0.91%	Above Market Average
3/1/2016	6.78%	11.82%	5.04%	Above Market Average
4/1/2016	2.25%	-0.82%	-3.07%	Below Market Average
5/1/2016	0.04%	8.49%	8.45%	Above Market Average
6/1/2016	0.47%	1.13%	0.66%	Above Market Average
7/1/2016	2.82%	7.59%	4.77%	Above Market Average
8/1/2016	-0.19%	2.10%	2.30%	Above Market Average
9/1/2016	-0.40%	1.33%	1.73%	Above Market Average
10/1/2016	-2.24%	-1.52%	0.72%	Above Market Average
11/1/2016	3.40%	3.35%	-0.05%	Below Market Average
12/1/2016	2.02%	5.00%	2.98%	Above Market Average
1/1/2017	1.50%	4.07%	2.57%	Above Market Average
2/1/2017	2.58%	5.93%	3.35%	Above Market Average
3/1/2017	-0.17%	2.50%	2.67%	Above Market Average
4/1/2017	0.38%	-0.67%	-1.05%	Below Market Average
5/1/2017	0.54%	3.50%	2.96%	Above Market Average
6/1/2017	1.41%	-0.36%	-1.77%	Below Market Average
7/1/2017	1.75%	4.27%	2.52%	Above Market Average
8/1/2017	-0.77%	1.96%	2.73%	Above Market Average
9/1/2017	2.81%	0.56%	-2.25%	Below Market Average
10/1/2017	1.08%	6.27%	5.19%	Above Market Average
11/1/2017	2.32%	2.75%	0.42%	Above Market Average
12/1/2017	1.43%	-0.41%	-1.85%	Below Market Average
1/1/2018	4.37%	10.22%	5.86%	Above Market Average
2/1/2018	-5.35%	-0.45%	4.90%	Above Market Average
3/1/2018	-1.58%	-3.10%	-1.51%	Below Market Average
4/1/2018	0.51%	1.17%	0.66%	Above Market Average
5/1/2018	0.09%	6.39%	6.29%	Above Market Average



6/1/2018	-0.18%	-0.09%	0.09%	Above Market Average
7/1/2018	3.67%	3.10%	-0.57%	Below Market Average
8/1/2018	0.41%	9.45%	9.04%	Above Market Average
9/1/2018	0.50%	3.97%	3.47%	Above Market Average
10/1/2018	-6.68%	-11.53%	-4.84%	Below Market Average
11/1/2018	2.04%	1.96%	-0.09%	Below Market Average
12/1/2018	-8.69%	-7.96%	0.73%	Above Market Average
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5/1/2019	-6.10%	-8.72%	-2.63%	Below Market Average
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7/1/2019	0.13%	2.00%	1.87%	Above Market Average
8/1/2019	-2.52%	-2.22%	0.30%	Above Market Average
9/1/2019	2.10%	1.89%	-0.22%	Below Market Average
10/1/2019	1.28%	4.32%	3.04%	Above Market Average
11/1/2019	2.83%	4.41%	1.57%	Above Market Average
12/1/2019	2.72%	4.18%	1.47%	Above Market Average
1/1/2020	-2.15%	3.27%	5.41%	Above Market Average
2/1/2020	-9.06%	-6.18%	2.87%	Above Market Average
3/1/2020	-16.79%	-6.22%	10.57%	Above Market Average
4/1/2020	10.39%	12.40%	2.01%	Above Market Average
5/1/2020	3.79%	6.09%	2.31%	Above Market Average
6/1/2020	0.77%	3.96%	3.19%	Above Market Average
7/1/2020	4.80%	5.47%	0.66%	Above Market Average
8/1/2020	4.66%	11.20%	6.54%	Above Market Average
9/1/2020	-2.63%	-3.39%	-0.76%	Below Market Average
10/1/2020	-2.15%	-6.97%	-4.82%	Below Market Average
11/1/2020	12.69%	10.16%	-2.53%	Below Market Average
12/1/2020	3.70%	2.92%	-0.78%	Below Market Average
	<b>0.57%</b>	<b>1.91%</b>	<b>1.34%</b>	
	<b>Above Market Average</b>			<b>70.59%</b>
	<b>Below Market Average</b>			<b>29.41%</b>

Based on the Table 6, the comparative analysis had been conducted to observe the ten years trend in the stock market. This is to provide the significant analysis through the comparative between the performance of the tech stocks price growth against the market index growth in New York Stock Exchange (NYSE). With reference to the outcome in Table 6, it appeared that the average tech stocks growth had been higher than the average market index growth in NYSE. This translates to the understanding where the major tech stocks in the stock market had observe stronger growth in the business and industry compared to the market benchmark which appeal to outperform other industry in terms of the business growth. In addition, the comparison of the comparative analysis had observed that the annual growth had more



consistently showing the higher growth for the tech stocks over the market index. In other words, the tech stocks tend to be constantly staying above the market growth signaling the significant growth for the industry in technology sector.

## **DISCUSSION**

Based on the outcome in the results for the research study, the observation had provide the presence of the significant in the positive relationship between the leading tech companies' stock against the US market index where the correlation analysis had suggested the significant positive correlation between the tech stocks against the market index in NYSE and the regression analysis had shared the similar outlook to suggest the significant in the relationship between the two variables. This had been aligned with the previous literature review suggesting that the individual stocks are likely to share strong positive relationship with the market index as the market index had been representing the movement of the stocks within the stock market. Therefore, the likeliness for the stock price growth to oppose the usual direction had been very unlikely. This is also contributed by the fact where the economic condition had highly influenced the business for majority of industry as a whole affecting the overall performance for the stocks prices and market index.

Besides that, the comparative analysis had opened the view on another perspective to understand the comparison between the growth rate between the tech stocks against the NYSE market index. The outcome had provided strong suggestion that the tech stocks had been consistently performing above the market growth. This indicate that the tech industry had been performing better as the business in the technology industry appeared to have stronger growth in the business over other industry. This would provide the evidence that the technology sector companies are conquering the major development in the recent trend suggesting that the companies will likely to contributed higher growth for the stock investment for the investors.

## **CONCLUSION**

Based on the outcome of study, the conclusion for the research study had been achieved through the process in this study. With this, the achievement of the study will be reflected on the initial two research objectives that are drawn in the initial stage for the research study. Referring to the first research objective of the study, it is identified to include the investigation the relationship among the leading tech stock prices against the market index performance. This had been supported with the significant evidence suggesting the existence of the presence in the positive relationship between the tech stock prices against the market index performance. The outcome of the research had drawn the expectation in the understanding towards the similar growth development for the stocks in the tech industry sharing the similar trend with the stock market development over time.

Moving into the second research objective which is to investigate the overall trend of the performance leading tech stock against the market index performance. The comparative analysis had provided the sufficient evidence to show the higher and consistent performance of the tech stocks where the tech stocks had been growing consistently above the growth of the market index. This had provided the strong suggestion that the tech industry is growing above

the average market of all industry which means the tech companies are aggressively growing in comparison with other industries.

The significant in the outcome of the study will not only provide the academic insight in terms of knowledge within the research scope but also develop important reference for the investors where the investors will prioritize on the opportunities for the stocks that will grow aggressively in the stock market. Besides, the consistent growth in the technology industry had open the opportunity for the investors to turn into the tech stock investment which will improve the return from the stock investment.

### **SUGGESTION FOR FUTURE RESEARCH**

The outcome of the study had been significant and clear for the academic research study, but the research study will not end without provide the additional extension on the area of interest from the current study. The current study had been highly focusing on the development of the study in the understanding in the performance of the tech stocks industry against the market index of NYSE. The future study can be extended to study different industry where the similar comparison can be drawn as part of the research objective to provide additional insight for the academic and investors to understand the potential of the stock growth and investment return for the stocks from other industry in the stock market exchange.

Besides, the current study had been targeting the focus for both the tech stocks and the market index in the country of US. It is understood that the current trend of the focus in the investment and finance study had been emphasizing on the impact for the cross border over the countries. Therefore, the future study can be drawn to provide the different focus like having the tech stocks in US to compare against the market index performance in other industry. This will definitely gain additional insight as the outcome will help to understand the positive or negative impact towards the market index performance in foreign country.

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