ANALYSIS REPORT

The following report is on the sentiment analysis of Dow Jones Industrial Average and the Event study on the Apple stocks during the announcement of 2016 WWDC.

Data Collected

The data collected is from 08-08-2008 to 01-07-2016.

Sentiment Analysis

Combined_News	Subjectivity	Polarity	Compound	Negative	Neutral	Positive
Georgia downs two Russian warplanes as countri	0.267549	-0.048568	-0.9983	0.212	0.729	0.059
Why wont America and Nato help us? If they won	0.374806	0.121956	-0.9977	0.202	0.738	0.061
Remember that adorable 9-year-old who sang at	0.536234	-0.044302	-0.9975	0.225	0.684	0.091

Figure 1: Sentiment Values Obtained Using vaderSentiment

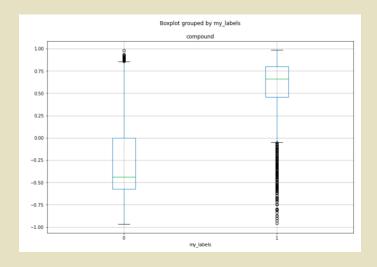


Figure 2: Box Plot Showing relation between Labels and obtained Compound Value

Overview on Apple Stock Data:

	Open	High	Low	Close	Adj	Close	Volume
count	90	90	90	90		90	90
mean	25	25	24	25		23	151840848
std	1	1	1	1		1	59347970
min	22	22	22	22		21	77645600
25%	23	24	23	23		22	116146600
50%	24	24	24	24		23	134739800
75%	26	26	26	26		24	167212700
max	28	28	27	28		26	458408400

Figure 3: Basic initial stats on the data

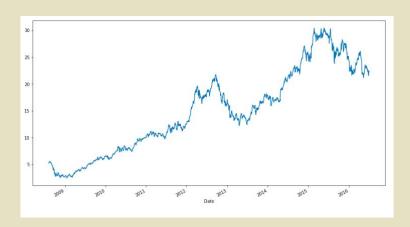


Figure 4: Stock Fluctuations for Apple Inc over the selected Period

Event Study on Apple Stocks

	Date	Close	closeApple	rrDija	rrApple	MAR	MKAR	RAR
48	2016-04-25	17977.240234	26.270000	-0.000727	0.006971	0.008548	0.007699	4.748251
49	2016-04-22	18003.750000	26.420000	0.001474	0.005694	0.007271	0.004220	4.746970
50	2016-04-21	17982.519531	26.492500	-0.001180	0.002740	0.004318	0.003920	4.744021
51	2016-04-20	18096.269531	26.782499	0.006306	0.010887	0.012464	0.004581	4.752154
52	2016-04-19	18053.599609	26.727501	-0.002361	-0.002056	-0.000478	0.000305	4.739227
53	2016-04-18	18004.160156	26.870001	-0.002742	0.005317	0.006895	0.008060	4.746601
54	2016-04-15	17897.460938	27.462500	-0.005944	0.021811	0.023388	0.027755	4.763100
55	2016-04-14	17926.429688	28.025000	0.001617	0.020276	0.021853	0.018658	4.761551

Figure 5: Event Study Analysis Results.

From the results obtained as shown above we get the following insights on the day the WWDC announcement was made (18-4-2016):

Mean Adjusted Return: 0.006895
Market Adjusted Return: 0.008060
Risk-Adjusted Return: 4.746601