## Volatility Modelling in Apple Stocks

This paper is an attmept to understand the volatility in the stock prices for apple:

First Things First, Lets get a data set for apple since 2006

```
library(tseries)
library(zoo)
## Warning: package 'zoo' was built under R version 3.4.2
##
## Attaching package: 'zoo'
## The following objects are masked from 'package:base':
##
       as.Date, as.Date.numeric
##
library(xts)
library(ggfortify)
## Loading required package: ggplot2
## Warning: namespace 'DBI' is not available and has been replaced
## by .GlobalEnv when processing object 'silent'
## Warning: namespace 'DBI' is not available and has been replaced
## by .GlobalEnv when processing object 'silent'
appl_stock<-read.csv("C:/Users/ltyagi.MOSAICINT/Downloads/AAPL (6).csv")
appl_stock
##
              Date
                        Open
                                  High
                                             Low
                                                     Close Adj.Close
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## 2
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## 4
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                                        12.78571
                                                  13.09000 11.73431
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                                                            11.75737
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##
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         5/24/2017 153.34000
  2646
         5/25/2017 153.86999
## 2647
         5/26/2017 153.61000
## 2648
         5/30/2017 153.67000
         5/31/2017 152.76000
## 2649
  2650
          6/1/2017 153.17999
  2651
          6/2/2017 155.45000
##
  2652
          6/5/2017 153.92999
##
  2653
          6/6/2017 154.45000
  2654
          6/7/2017 155.36999
##
## 2655
          6/8/2017 154.99000
          6/9/2017 148.98000
## 2656
## 2657
         6/12/2017 145.42000
  2658
         6/13/2017 146.59000
  2659
         6/14/2017 145.16000
##
##
  2660
         6/15/2017 144.28999
  2661
         6/16/2017 142.27000
## 2662
         6/19/2017 146.34000
## 2663
         6/20/2017 145.01000
## 2664
         6/21/2017 145.86999
  2665
         6/22/2017 145.63001
## 2666
         6/23/2017 146.28000
  2667
         6/26/2017 145.82001
        6/27/2017 143.73000
## 2668
## 2669
         6/28/2017 145.83000
## 2670
         6/29/2017 143.67999
## 2671
         6/30/2017 144.02000
          7/3/2017 143.50000
## 2672
          7/5/2017 144.09000
## 2673
## 2674
          7/6/2017 142.73000
## 2675
         7/7/2017 144.17999
  2676
        7/10/2017 145.06000
## 2677
         7/11/2017 145.53000
         7/12/2017 145.74000
## 2678
## 2679
         7/13/2017 147.77000
## 2680
         7/14/2017 149.03999
  2681
         7/17/2017 149.56000
  2682
         7/18/2017 150.08000
##
  2683
        7/19/2017 151.02000
## 2684
        7/20/2017 150.34000
## 2685
        7/21/2017 150.27000
## 2686 7/24/2017 152.09000
```

```
## 2687 7/25/2017 152.74000
## 2688
        7/26/2017 153.46001
## 2689
        7/27/2017 150.56000
## 2690
        7/28/2017 149.50000
## 2691
         7/31/2017 148.73000
          8/1/2017 150.05000
## 2692
## 2693
          8/2/2017 157.14000
          8/3/2017 155.57001
## 2694
## 2695
          8/4/2017 156.39000
## 2696
          8/7/2017 158.81000
## 2697
          8/8/2017 160.08000
## 2698
         8/9/2017 161.06000
## 2699
        8/10/2017 155.32001
## 2700
        8/11/2017 157.48000
## 2701
         8/14/2017 159.85001
## 2702
         8/15/2017 161.60001
        8/16/2017 160.95000
## 2703
## 2704
        8/17/2017 157.86000
## 2705
        8/18/2017 157.50000
## 2706
        8/21/2017 157.21001
## 2707
        8/22/2017 159.78000
## 2708
         8/23/2017 159.98000
## 2709
         8/24/2017 159.27000
## 2710
         8/25/2017 159.86000
## 2711
        8/28/2017 161.47000
## 2712
        8/29/2017 162.91000
## 2713
        8/30/2017 163.35001
## 2714
        8/31/2017 164.00000
## 2715
          9/1/2017 164.05000
## 2716
          9/5/2017 162.08000
          9/6/2017 161.91000
## 2717
## 2718
          9/7/2017 161.26000
## 2719
          9/8/2017 158.63001
## 2720
        9/11/2017 161.50000
## 2721
         9/12/2017 160.86000
## 2722
        9/13/2017 159.64999
## 2723
        9/14/2017 158.28000
## 2724
        9/15/2017 159.88001
## 2725
         9/18/2017 158.67000
## 2726
        9/19/2017 158.73000
        9/20/2017 156.07001
## 2727
## 2728
        9/21/2017 153.39000
## 2729
         9/22/2017 151.89000
## 2730
        9/25/2017 150.55000
## 2731
         9/26/2017 153.14000
## 2732
         9/27/2017 154.23000
## 2733
         9/28/2017 153.28000
## 2734
        9/29/2017 154.11999
## 2735
        10/2/2017 153.81000
## 2736
         10/3/2017 154.48000
## 2737
         10/4/2017 153.48000
## 2738
        10/5/2017 155.39000
## 2739
        10/6/2017 155.30000
## 2740 10/9/2017 155.84000
```

```
## 2741 10/10/2017 155.89999
## 2742 10/11/2017 156.55000
## 2743 10/12/2017 156.00000
## 2744 10/13/2017 156.99000
## 2745 10/16/2017 159.88001
## 2746 10/17/2017 160.47000
## 2747 10/18/2017 159.76000
## 2748 10/19/2017 155.98000
## 2749 10/20/2017 156.25000
## 2750 10/23/2017 156.17000
## 2751 10/24/2017 157.10001
## 2752 10/25/2017 156.41000
## 2753 10/26/2017 157.41000
## 2754 10/27/2017 163.05000
## 2755 10/30/2017 166.72000
## 2756 10/31/2017 169.03999
## 2757
        11/1/2017 166.89000
## 2758
        11/2/2017 168.11000
## 2759
        11/3/2017 172.50000
## 2760
        11/6/2017 174.25000
## 2761
        11/7/2017 174.81000
## 2762
        11/8/2017 176.24000
## 2763 11/9/2017 175.88001
## 2764 11/10/2017 174.67000
## 2765 11/13/2017 173.97000
## 2766 11/14/2017 171.34000
## 2767 11/15/2017 169.08000
## 2768 11/16/2017 171.10001
## 2769 11/17/2017 170.14999
ap<-ts(appl_stock1$Close, start=c(2011,11,20), frequency = 365)
autoplot(ap,ts.colour='blue')+
 ggtitle("Stock Data for Apple since 2006 ")
```

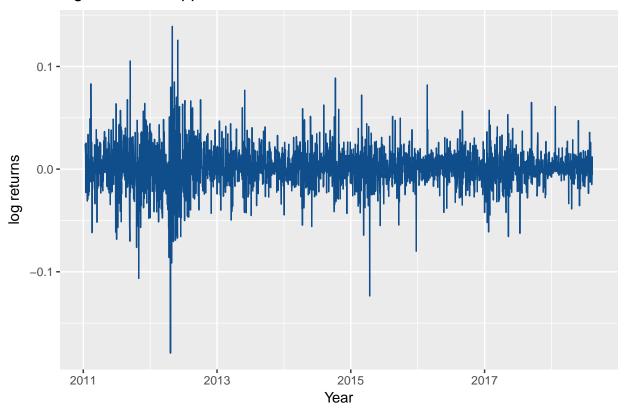
## Stock Data for Apple since 2006



# Lets observe the retruns on the stock , on daily basis :

```
library(ggplot2)
library(ggfortify)
library(tseries)
ap_return<-diff(ap)/ap[-length(ap)]
autoplot( (diff(ap)/ap[-length(ap)]),ts.colour = 'dodgerblue4')+
    ggtitle("log returns for apple")+
    ylab("log returns")+xlab("Year")</pre>
```

## log returns for apple

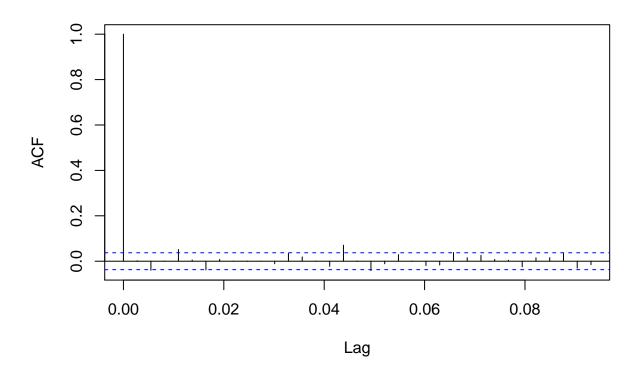


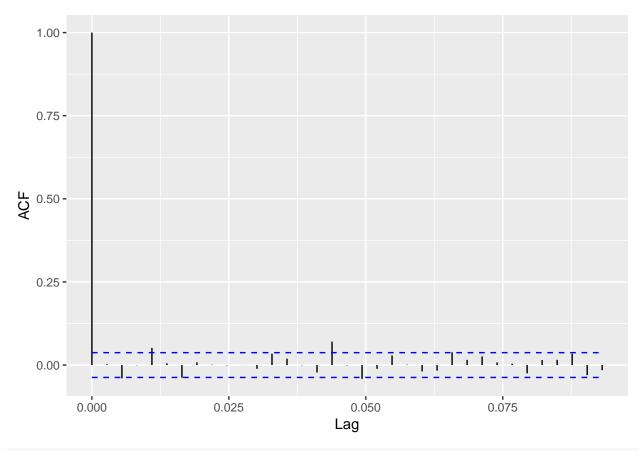
#### There can be easily seen the period of volatility in Apple stocks in time intervals,

so under these assumptions we need to fit a grach model on the same and analyse the volatility .

```
library(ggfortify)
autoplot(stats::acf(ap_return), plot = FALSE)
```

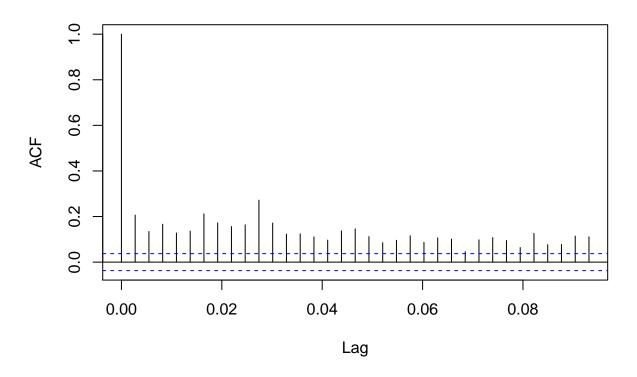
## Series ap\_return

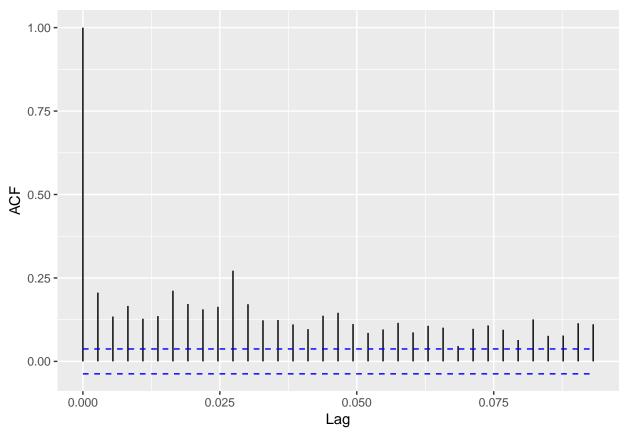




autoplot(stats::acf(ap\_return^2), plot = FALSE)

# Series ap\_return^2





```
library(knitr)
Table_For_GARCH_AIC <- function(data,P,Q){</pre>
  table <- matrix(NA,(P),(Q))
  for(p in 1:P) {
    for(q in 1:Q) {
      temp.fit = garch(x = data, order = c(p,q), grad = "numerical", trace = FALSE)
      table[p,q] <- 2*length(temp.fit$coef) - 2*as.numeric(logLik(temp.fit))</pre>
    }
  dimnames(table) <- list(paste("<b> p",1:P, "</b>", sep=""),paste("q",1:Q,sep=""))
  table
}
apple_aic_table <- Table_For_GARCH_AIC(ap_return,5,5)</pre>
## Warning in garch(x = data, order = c(p, q), grad = "numerical", trace =
## FALSE): singular information
apple_aic_table
##
                      q1
                                q2
                                          q3
                                                     q4
## <b> p1</b> -13883.94 -13953.90 -14021.75 -14347.25 -14327.26
## <b> p2</b> -13886.08 -13964.85 -14035.36 -14173.15 -14278.18
## <b> p3</b> -13886.40 -13973.52 -14054.17 -14113.27 -14349.66
## <b> p4</b> -13890.00 -13986.69 -14069.55 -14134.40 -14194.23
## <b> p5</b> -13898.42 -14001.28 -14087.22 -14150.01 -14213.15
```

#### kable(apple\_aic\_table,digits=2)

	q1	q2	q3	q4	q5
p1	-13883.94	-13953.90	-14021.75	-14347.25	-14327.26
p2	-13886.08	-13964.85	-14035.36	-14173.15	-14278.18
p3	-13886.40	-13973.52	-14054.17	-14113.27	-14349.66
p4	-13890.00	-13986.69	-14069.55	-14134.40	-14194.23
p5	-13898.42	-14001.28	-14087.22	-14150.01	-14213.15