Review 2 Big Five

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Setup

Load the Libraries

```
library(keras)
library(tensorflow)
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
       intersect, setdiff, setequal, union
##
library(quantmod)
## Loading required package: xts
## Loading required package: zoo
## Attaching package: 'zoo'
## The following objects are masked from 'package:base':
##
##
       as.Date, as.Date.numeric
##
## Attaching package: 'xts'
## The following objects are masked from 'package:dplyr':
##
       first, last
##
## Loading required package: TTR
## Registered S3 method overwritten by 'quantmod':
     method
##
     as.zoo.data.frame zoo
library(TTR)
```

Load the Data

```
data <- read.csv('big_five_stocks.csv')</pre>
```

Dataset Description

Name of the Dataset Big Five

Description of the fields

```
str(data)
## 'data.frame':
                    41660 obs. of 7 variables:
## $ X : Factor w/ 12257 levels "1971-02-05","1971-02-08",..: 1 2 3 4 5 6 7 8 9 10 ...
## $ name : Factor w/ 6 levels "^IXIC","AAPL",..: 1 1 1 1 1 1 1 1 1 1 ...
## $ open : num 100 101 101 101 101 ...
## $ close : num 100 101 101 101 101 ...
## $ high : num 100 101 101 101 101 ...
## $ low : num 100 101 101 101 101 ...
## $ volume: num 0 0 0 0 0 0 0 0 0 ...
Build a time series prediction model using keras and tensorflow ## Transform data to stationary
get_ticker_data <- function (data,nam){</pre>
  return(filter(data, name == nam))
diffedMSFT = diff(get_ticker_data(data,'MSFT')$close,differences = 1)
diffedAAPL = diff(get_ticker_data(data,'AAPL')$close, differences = 1)
diffedAMZN = diff(get_ticker_data(data,'AMZN')$close,differences = 1)
diffedGOOGL = diff(get_ticker_data(data, 'GOOGL')$close, differences = 1)
diffedIXIC = diff(get_ticker_data(data,'^IXIC')$close,differences = 1)
```

Lagged Dataset

```
lag_transform <- function(x, k=1){
  lagged = c(rep(NA, k), x[1:length(x)-k])
  DF = as.data.frame(cbind(lagged,x))
  colnames(DF) <- c(pasteO('x-',k),'x')
  DF[is.na(DF)] <- 0
  return (DF)
}

SuperMSFT = lag_transform(diffedMSFT,1)
SuperAAPL = lag_transform(diffedAAPL,1)
SuperAMZN = lag_transform(diffedAMZN,1)
SuperGOOGL = lag_transform(diffedGOOGL,1)
SuperIXIC = lag_transform(diffedIXIC,1)</pre>
```

Amazon (NASDAQ: AMZN)

Split the data into training and teasting sets

```
N = nrow(SuperAMZN)
n = round(N*0.7, digits = 0)
train = SuperAMZN[1:n, ]
test = SuperAMZN[(n+1):N, ]
```

Normalize the data

```
scale_data = function(train, test, feature_range = c(0,1)){
    x = train
    fr_min = feature_range[1]
    fr_max = feature_range[2]
    std_train = ((x - min(x)) / (max(x) - min(x)))
    std_test = ((test - min(x)) / (max(x) - min(x)))

    scaled_train = std_train * (fr_max - fr_min) + fr_min
    scaled_test = std_test * (fr_max - fr_min) + fr_min

    return (list(scaled_train = as.vector(scaled_train),scaled_test = as.vector(scaled_test),scaler = c(m)
}

Scaled = scale_data(train,test,c(-1,1))
    y_train = Scaled$scaled_train[,2]
    x_train = Scaled$scaled_train[,1]

y_test = Scaled$scaled_test[, 2]
    x_test = Scaled$scaled_test[, 1]
```

Invert from Normalized Scale to Orginal Scale

```
inver_scaling = function(scaled, scaler, feature_range = c(0,1)){
    min = scaler[1]
    max = scaler[2]
    t = length(scaled)
    mins = feature_range[1]
    maxs = feature_range[2]
    inverted_dfs = numeric(t)

for (i in 1:t){
    X = (scaled[i] - mins)/(maxs - mins)
    rawValues = X*(max-min) + min
    inverted_dfs[i] <-rawValues
}
return(inverted_dfs)
}</pre>
```

Modeling

```
dim(x_train) <- c(length(x_train),1,1)</pre>
```

```
\#dim(y\_train) \leftarrow c(length(y\_train), 1, 1)
x_{shape2} = dim(x_{train})[2]
x_shape3 = dim(x_train)[3]
batch_size = 1
units = 1
model <- keras_model_sequential()</pre>
model %>%
 layer_lstm(units, batch_input_shape = c(batch_size, x_shape2, x_shape3), stateful = TRUE) %>%
 layer_dense(units = 1)
model %>% compile(
 loss = 'mean_squared_error',
 optimizer = optimizer_adam(learning_rate = 0.02, decay = 1e-6),
metrics = c("accuracy")
summary(model)
Define the model
## Model: "sequential"
## ______
## Laver (type) Output Shape
## lstm (LSTM)
                               (1, 1)
## ______
## dense (Dense)
                              (1, 1)
## -----
## Total params: 14
## Trainable params: 14
## Non-trainable params: 0
Epochs = 50
for(i in 1:Epochs){
 model %% fit(x_train, y_train, epochs = 1, batch_size = batch_size, verbose = 1, shuffle = FALSE)
 model %>% reset_states()
Fit the model
```

```
L = length(x_test)
scaler = Scaled$scaler
predictions = numeric(L)

for (i in 1:L){
   X = x_test[i]
   dim(X) = c(1,1,1)
   yhat = model %>% predict(X, batch_size = batch_size)

   yhat = inver_scaling(yhat, scaler, c(-1,1))
```

```
yhat = yhat + get_ticker_data(data,'AMZN')$close[(n+i)]
predictions[i] <- yhat
}</pre>
```

Make Predictions

```
y_train_p = Scaled$scaled_train[,1]
scaler = Scaled$scaler
L = length(y_train_p)
y_train_p_uns = numeric(L)
for (i in 1:L){
  y_train_p_uns[i] <- train[,1] + get_ticker_data(data,'AMZN')$close[(n+i)]
}</pre>
```

Line plots

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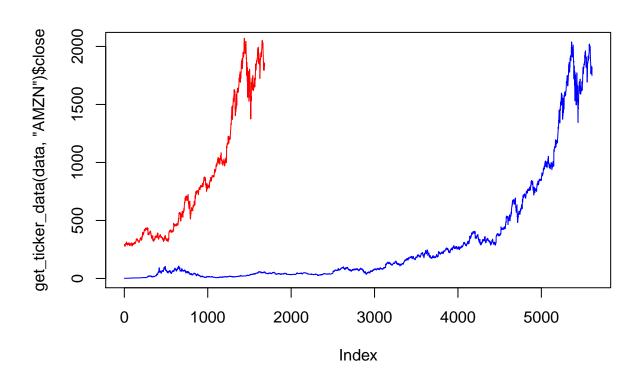
plot(get_ticker_data(data, 'AMZN')$close, type="line", col="blue")

## Warning in plot.xy(xy, type, ...): plot type 'line' will be truncated to first

## character

lines(predictions, type="line", col="red")

## Warning in plot.xy(xy.coords(x, y), type = type, ...): plot type 'line' will be</pre>
```



Charting the Data (Exploring the Data in a Financial Prespective) #Apple (NASDAQ: AAPL)

truncated to first character

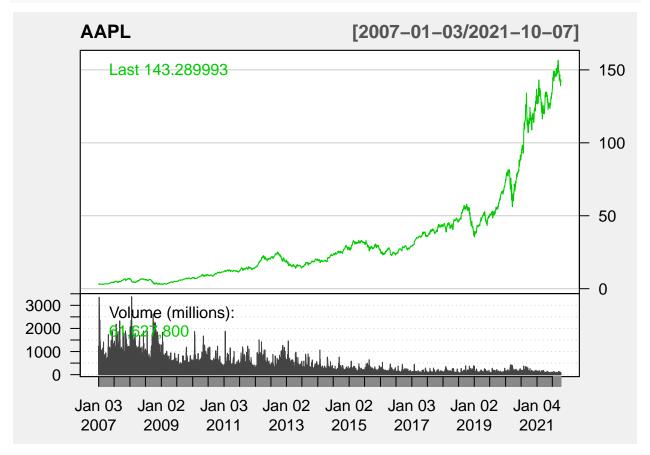
Load the data

[1] "AAPL"

```
head(get_ticker_data(data,'AAPL'))
##
              X name open close high low volume
## 1 1980-12-12 AAPL 0.51 0.51 0.52 0.51 2093900
## 2 1980-12-15 AAPL 0.49 0.49 0.49 0.49
                                          785200
## 3 1980-12-16 AAPL 0.45 0.45 0.45 0.45
                                          472000
## 4 1980-12-17 AAPL 0.46 0.46 0.46 0.46
                                          385900
## 5 1980-12-18 AAPL 0.48 0.48 0.48 0.48 327900
## 6 1980-12-19 AAPL 0.50 0.50 0.51 0.50
                                          217100
getSymbols("AAPL") #Gets Live data from Yahoo Finance
## 'getSymbols' currently uses auto.assign=TRUE by default, but will
## use auto.assign=FALSE in 0.5-0. You will still be able to use
## 'loadSymbols' to automatically load data. getOption("getSymbols.env")
## and getOption("getSymbols.auto.assign") will still be checked for
## alternate defaults.
## This message is shown once per session and may be disabled by setting
```



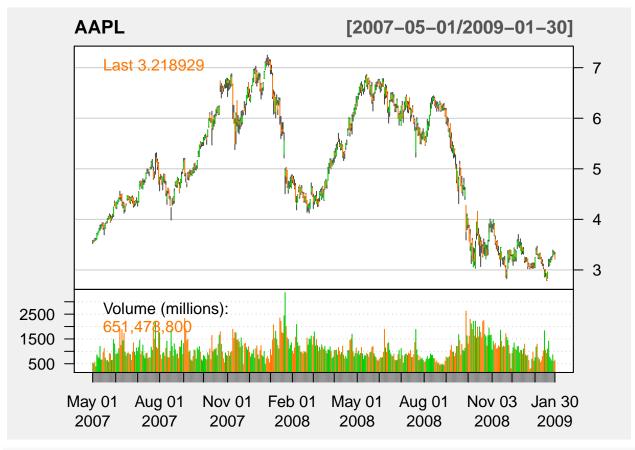
options("getSymbols.warning4.0"=FALSE). See ?getSymbols for details.



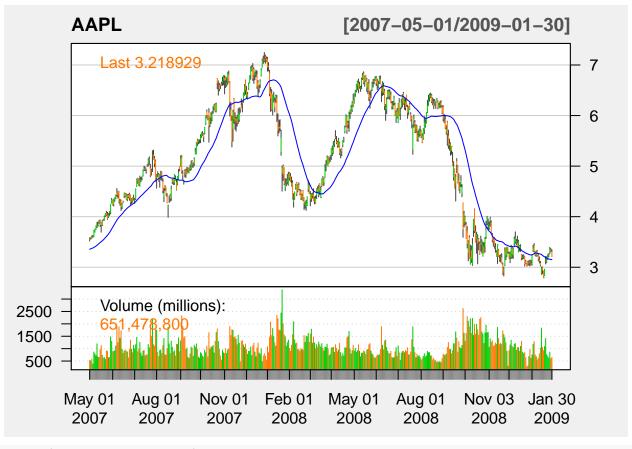
Technical Analysis

Simple Moving Average

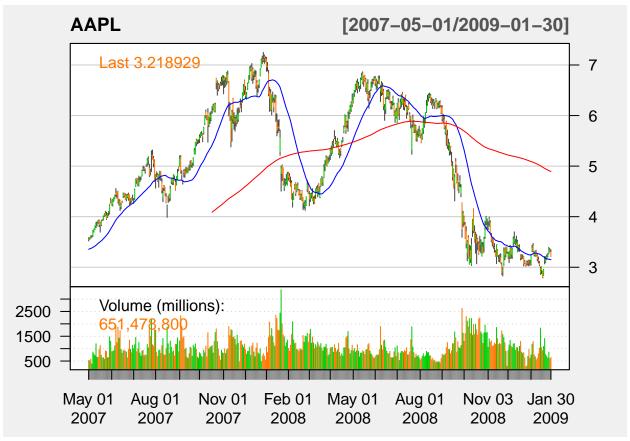
chartSeries(AAPL, subset='2007-05::2009-01',theme = chartTheme('white'))



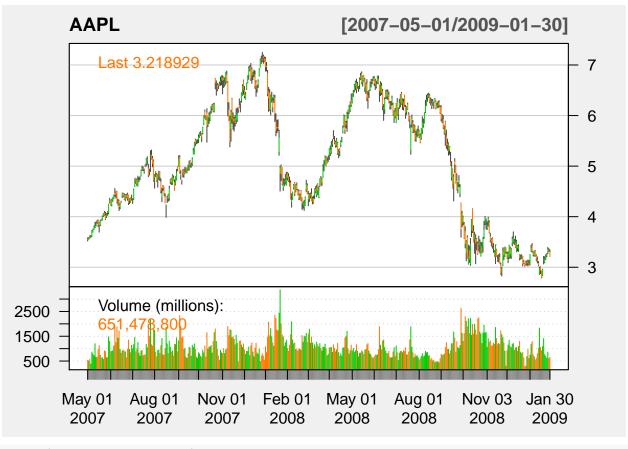
addSMA(n = 30,on =1, col="blue") #30 day period



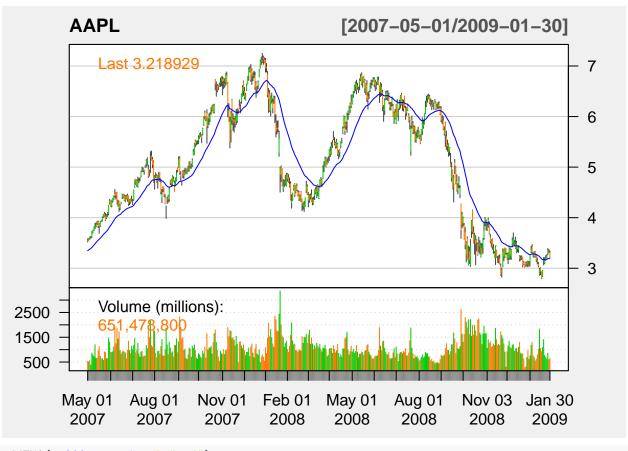
addSMA(n=200,on=1,col="red") #200 day period



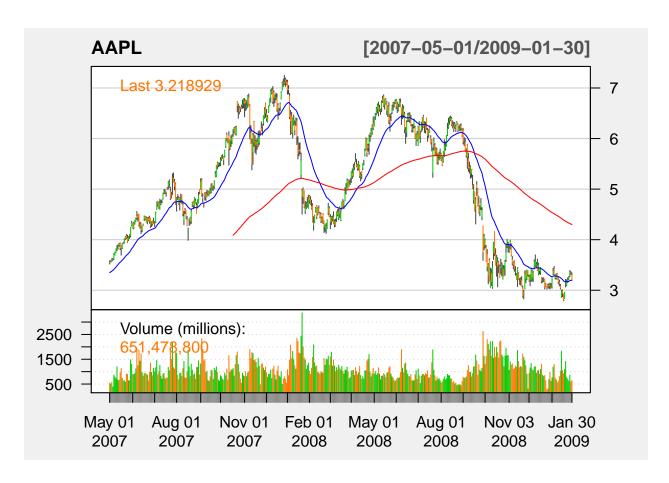
Exponential Moving Averages
chartSeries(AAPL, subset='2007-05::2009-01',theme = chartTheme('white'))



addEMA(n=30,on=1,col="blue")

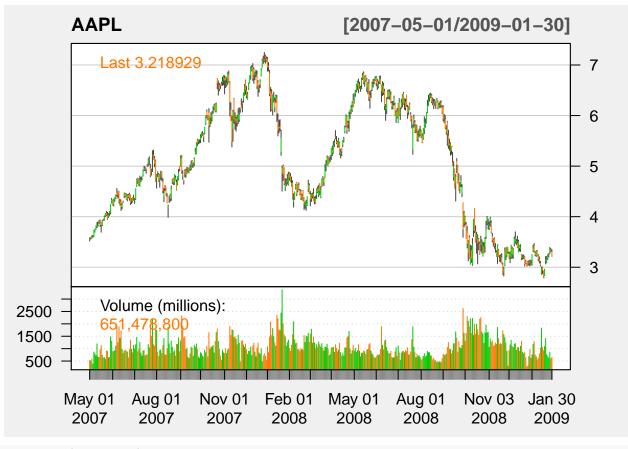


addEMA(n=200,on = 1,col="red")

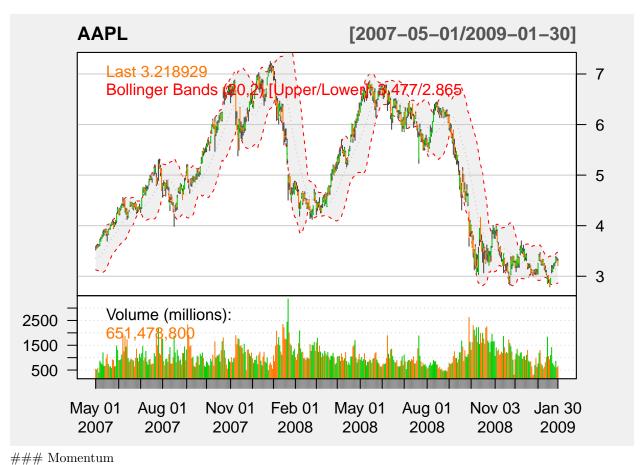


Bollinger Bands

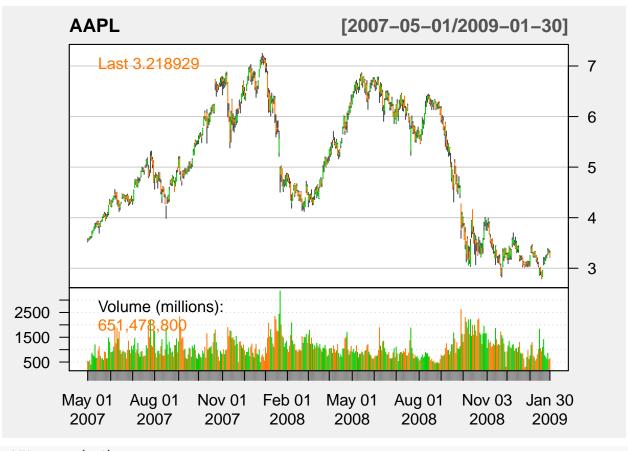
```
chartSeries(AAPL, subset='2007-05::2009-01',theme = chartTheme('white'))
```



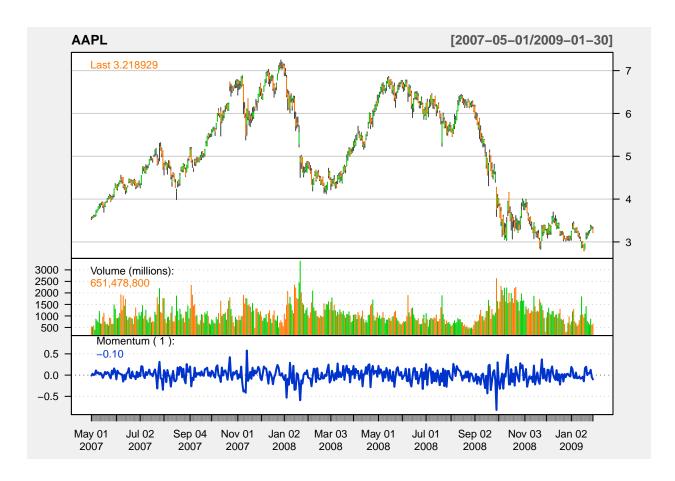
addBBands(n=20,sd=2) #Period 20 with Std dev of 2



chartSeries(AAPL, subset='2007-05::2009-01',theme = chartTheme('white'))

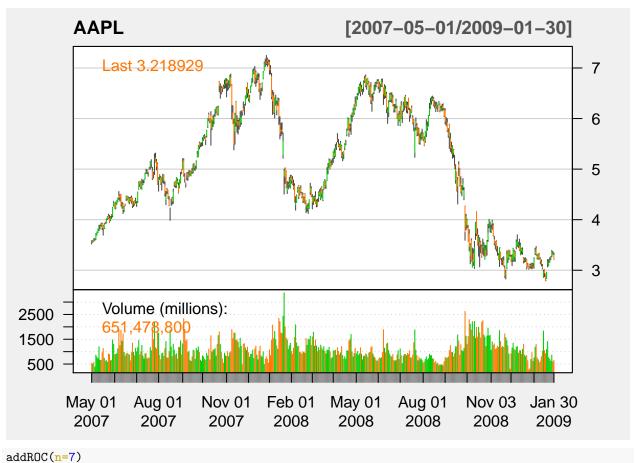


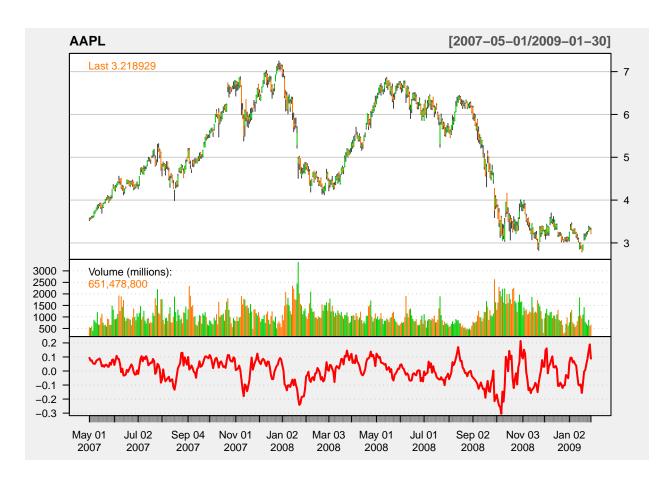
addMomentum(n=1)



ROC

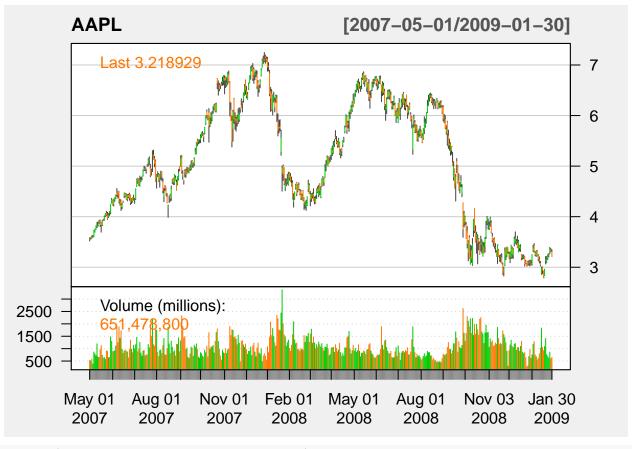
```
chartSeries(AAPL, subset='2007-05::2009-01',theme = chartTheme('white'))
```



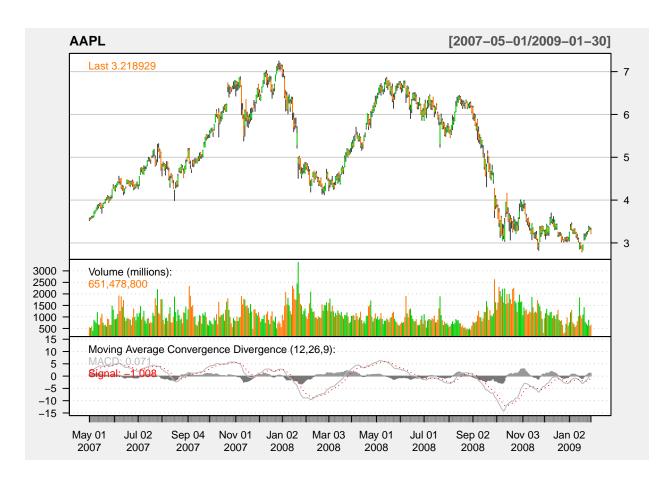


MACD (Moving Average Convergence Divergence)

```
chartSeries(AAPL, subset='2007-05::2009-01',theme = chartTheme('white'))
```

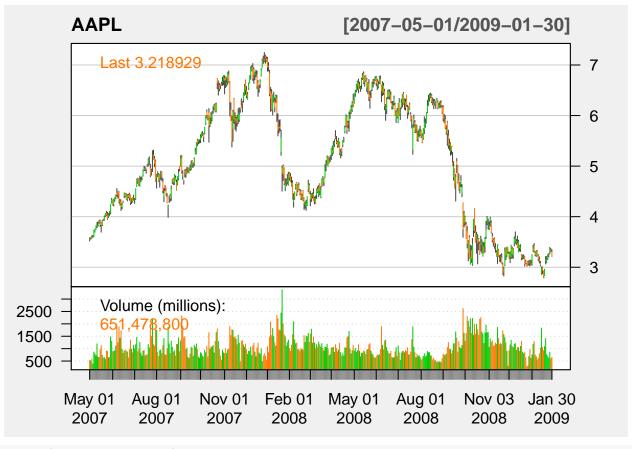


addMACD(fast=12,slow=26,signal=9,type="EMA")

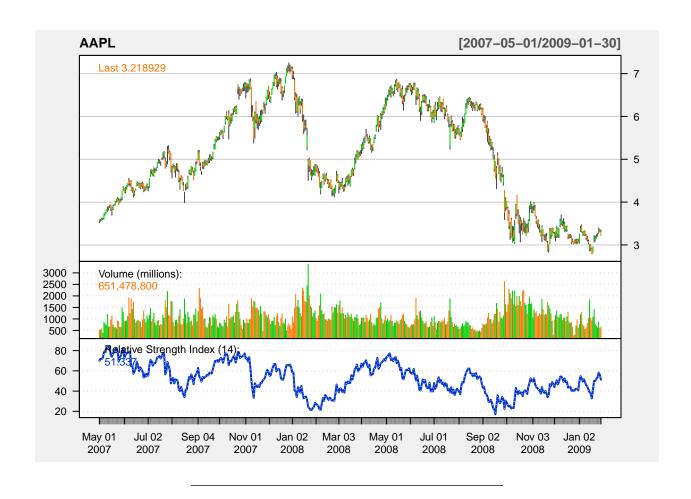


RSI (Realtive Strength Index)

```
chartSeries(AAPL, subset='2007-05::2009-01',theme = chartTheme('white'))
```



addRSI(n=14,maType="EMA")



Conclusion

Constructed a Simple LSTM based Time-Series for casting model. Explained the AAPL Stock Closing prices in Financial Terms

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