SensexDataAnalysis

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```
data = read.csv("S:/R/SENSEX DATA/sensexdata.csv")
maindata = data[,c(1,6)]
sensexdata = unique(maindata[,1])
maindd = data.frame(data =NA)
for(comp in sensexdata){
  print(comp)
  print(summary(maindata[maindata$Company == comp,2]))
  average= mean(maindata[maindata$Company == comp,2])
  sdvalue = sd(maindata[maindata$Company == comp,2])
  mddata = maindata[maindata$Company == comp,]
  initialvalue = mddata[1,2]
  len = length(mddata[,2])
  Finalvalue = mddata[len,2]
  diff = ((Finalvalue-initialvalue)/(initialvalue))
  maindd[i,1] = comp
  maindd[i,2] = as.numeric(round(average,2))
  maindd[i,3] = as.numeric(round(sdvalue,2))
  maindd[i,4] = as.numeric(round(initialvalue,2))
  maindd[i,5] = as.numeric(round(Finalvalue,2))
  maindd[i,6] = as.numeric(round(diff,3))
  i = i+1
```

```
## [1] "INFOSYS LTD"
      Min. 1st Qu. Median
                               Mean 3rd Qu.
                                               Max.
     911.1
             989.8 1033.0 1031.0 1061.0
                                             1194.0
##
  [1] "HINDALCO.NS"
##
##
     Min. 1st Qu. Median
                              Mean 3rd Qu.
                                               Max.
##
     123.6
             145.6
                    154.8
                              154.2
                                      162.4
                                              182.1
## [1] "TCS.NS"
##
      Min. 1st Qu. Median
                               Mean 3rd Qu.
                                               Max.
##
      2101
              2302
                      2399
                               2402
                                       2503
                                               2738
  [1] "NIFTY"
##
##
      Min. 1st Qu.
                    Median
                               Mean 3rd Qu.
                                               Max.
##
      7908
              8222
                      8573
                               8484
                                       8689
                                               8952
  [1] "TATASTEEL.NS"
      Min. 1st Qu. Median
##
                              Mean 3rd Qu.
                                               Max.
##
     317.7
             370.2
                     388.2
                              387.1
                                      408.7
                                              437.0
  [1] "NESTLEIND.NS"
##
      Min. 1st Qu. Median
                              Mean 3rd Qu.
                                               Max.
      5768
              6307
                                               7237
##
                      6511
                               6514
                                       6789
```

##	[1] "TEO	CHM.NS"					
##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	
##	408.6	442.0	466.6	465.4	487.6	519.1	
##	408.6 442.0 466.6 465.4 487.6 519.1 [1] "HCLTECH.NS"						
##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	
##	716.8	766.0	790.4	785.5	807.7	834.8	
##	716.8 766.0 790.4 785.5 807.7 834.8 [1] "HDFCBANK.NS"						
		1st Qu.		Mean	3rd Qu.	Max.	
##	1166	1199	1246	1238	1272	1313	
##	[1] "JE	ΓAIRWAYS.	NS"				
##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	
##	340.4	396.5	487.3	480.6	546.7	620.6	
##	[1] "BLU	JEDART.NS	,"				
		1st Qu.		Mean	3rd Qu.	Max.	
##	4181	4845	5395	5259	5577	6077	
##	[1] "AUI	ROPHARMA.	NS"				
##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	
##	624.5	738.7	773.4	769.6	803.6	870.0	
##	[1] "APO	OLLOHOSP.	NS"				
		1st Qu.		Mean	3rd Qu.	Max.	
##	1126	1238	1339	1307	1358	1416	
##	[1] "IOO	C.NS"					
##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	
##	285.8	311.6	954.6	751.5	1128.0	1300.0	
##	[1] "HIN	NDPETRO.N	S"				
##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	
##	396.8	435.6	454.2	992.3	1223.0	3511.0	
		EL.NS"					
##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	
##	117.2	132.2	137.9	136.5	141.2	159.6	
		PC.NS"					
##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	
		152.8		156.7	160.4	166.8	
	[1] "HINDZINC.NS" Min. 1st Qu. Median Mean 3rd Qu. Max.						
		219.4	233.4	236.5	254.6	285.3	
	[1] "M&N						
		1st Qu.					
##				37.56	39.82	44.91	
		LIANCE.NS					
		1st Qu.					
##		1005.0	1025.0	1034.0	1061.0	1111.0	
	[1] "ONG			••	0	••	
		1st Qu.			-		
##			367.4	361.2	410.0	448.1	
		IENTBANK.		14	0 1 0	.,	
		1st Qu.					
##			120.0	120.7	126.2	137.7	
		RUTI.NS"	M 1:	14	0 1 0	.,	
		1st Qu.					
		4885		5140	5513	5878	
ш п	[1] "ASHOKLEY.NS" Min. 1st Qu. Median Mean 3rd Qu. Max.						
				3.6	0 1 0	3.6	
##	Min.		Median		3rd Qu. 89.28		

```
## [1] "ASIANPAINT.NS"
##
      Min. 1st Qu. Median
                               Mean 3rd Qu.
                                                Max.
##
             960.4 1085.0 1063.0 1157.0
   [1] "DABUR.NS"
##
##
      Min. 1st Qu.
                    Median
                               Mean 3rd Qu.
                                                Max.
##
     260.0
             279.5
                     290.5
                                      297.4
                              289.5
                                               317.2
   [1] "DRREDDY.NS"
##
      Min. 1st Qu.
                    Median
                               Mean 3rd Qu.
                                                Max.
##
      2935
              3051
                       3138
                               3176
                                        3211
                                                3677
   [1] "BHARTIARTL.NS"
##
      Min. 1st Qu.
                    Median
                               Mean 3rd Qu.
                                                Max.
##
     292.2
             309.4
                              328.5
                     321.8
                                      348.6
                                               378.9
##
   [1] "BATAINDIA.NS"
##
      Min. 1st Qu.
                    Median
                               Mean 3rd Qu.
                                                Max.
##
     402.6
             436.0
                              496.5
                                      540.3
                                               605.4
                     501.0
##
  [1] "LTI.NS"
##
      Min. 1st Qu.
                               Mean 3rd Qu.
                    Median
                                                Max.
##
     600.5
             626.0
                     644.0
                              647.7
                                      675.1
                                               700.9
colnames(maindd) = c("Company Name", "Average", "Standard Deviation", "InitialVal", "Finalval", "diff")
ranks = rank(-maindd[,6])
maindd = cbind(maindd,ranks)
print(maindd)
##
       Company Name Average Standard Deviation InitialVal Finalval
                                                                        diff
## 1
        INFOSYS LTD 1031.07
                                           60.40
                                                    1172.40
                                                             1010.60 -0.138
## 2
        HINDALCO.NS 154.18
                                           14.17
                                                     124.75
                                                              155.05 0.243
## 3
             TCS.NS 2402.00
                                          154.48
                                                    2500.85
                                                             2365.55 -0.054
## 4
              NIFTY 8483.71
                                          269.63
                                                    8328.35
                                                             8185.80 -0.017
## 5
       TATASTEEL.NS
                     387.15
                                           25.65
                                                     328.10
                                                              391.25 0.192
## 6
       NESTLEIND.NS 6514.46
                                          335.91
                                                    6509.70
                                                             6028.35 -0.074
## 7
           TECHM.NS
                                           28.75
                                                              488.90 -0.044
                     465.44
                                                     511.40
## 8
         HCLTECH.NS
                     785.49
                                           30.03
                                                     731.70
                                                              827.95 0.132
## 9
        HDFCBANK.NS 1238.13
                                          40.09
                                                    1174.50
                                                             1206.20 0.027
## 10 JETAIRWAYS.NS
                    480.64
                                          82.36
                                                     546.35
                                                              347.60 -0.364
        BLUEDART.NS 5259.11
                                         519.96
                                                    5944.40
                                                             4385.45 -0.262
## 12 AUROPHARMA.NS
                    769.64
                                          52.75
                                                     746.25
                                                              669.30 -0.103
## 13 APOLLOHOSP.NS 1306.68
                                          74.99
                                                    1329.85
                                                             1179.90 -0.113
             IOC.NS
                                         389.67
                                                     948.60
                                                              325.05 -0.657
## 14
                     751.49
## 15
       HINDPETRO.NS
                     992.28
                                         899.46
                                                    3063.90
                                                              441.30 -0.856
## 16
            BHEL.NS
                     136.54
                                           8.21
                                                     132.05
                                                              121.20 -0.082
## 17
            NTPC.NS
                     156.75
                                           5.05
                                                     156.75
                                                              164.75 0.051
                                           27.58
                                                     177.25
## 18
        HINDZINC.NS
                     236.46
                                                               255.40
                                                                       0.441
## 19
             M&M.NS
                       37.56
                                           2.87
                                                                35.81 0.066
                                                      33.60
## 20
        RELIANCE.NS 1034.29
                                           35.50
                                                     973.45
                                                             1082.40 0.112
## 21
            ONGC.NS
                                          63.83
                                                              191.35 -0.433
                     361.23
                                                     337.50
## 22
      ORIENTBANK.NS
                     120.71
                                           7.08
                                                     110.95
                                                              106.00 -0.045
          MARUTI.NS 5140.36
## 23
                                         449.73
                                                    4165.40
                                                             5319.55 0.277
                       85.02
                                            5.92
                                                      99.40
                                                               80.10 -0.194
        ASHOKLEY.NS
## 25 ASIANPAINT.NS 1062.82
                                         108.98
                                                    1002.50
                                                              891.05 -0.111
## 26
           DABUR.NS
                     289.45
                                          12.76
                                                     310.80
                                                              278.15 -0.105
## 27
         DRREDDY.NS 3175.71
                                         173.87
                                                    3484.10
                                                             3060.40 -0.122
## 28 BHARTIARTL.NS
                                          23.32
                     328.53
                                                     368.35
                                                              305.65 -0.170
                                                     549.35
```

450.40 -0.180

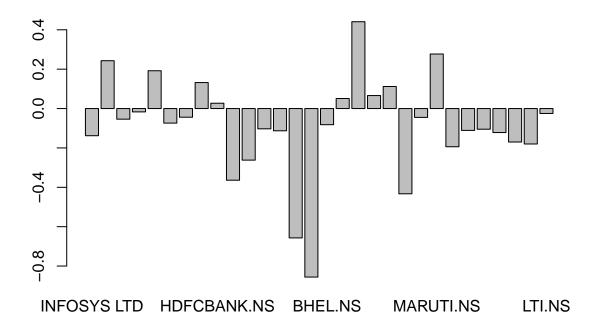
55.39

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BATAINDIA.NS 496.52

```
LTI.NS 647.68
                                   27.37
                                                  697.60 680.05 -0.025
## 30
##
     ranks
## 1
        22
## 2
         3
## 3
        14
## 4
        10
## 5
         4
## 6
        15
## 7
        12
## 8
         5
## 9
         9
## 10
        27
## 11
        26
## 12
        17
## 13
        20
## 14
        29
## 15
        30
## 16
        16
## 17
         8
## 18
         1
## 19
         7
## 20
         6
## 21
        28
## 22
        13
## 23
         2
## 24
        25
## 25
        19
## 26
        18
## 27
        21
## 28
        23
## 29
        24
## 30
        11
```

barplot(maindd\$diff,names.arg=maindd\$`Company Name`)



source("sensex.R")