## Road condition State Based.R

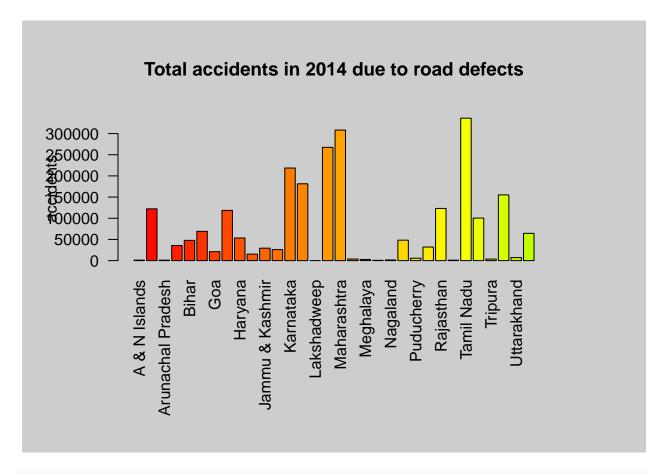
## shaun

## 2021-12-12

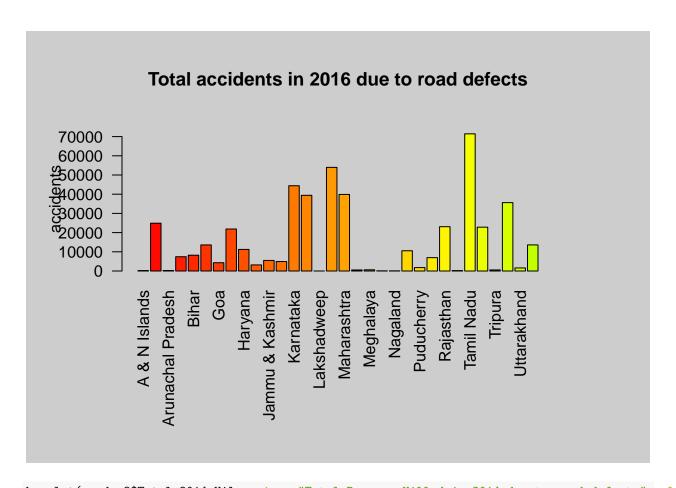
```
library("dplyr")
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(ggplot2)
setwd("C://Users//shaun//OneDrive//Desktop//Academics//Sem-5//Foundation of Data Analytics 3505//J-comp
# Accidents due to vehicular defects
road_c2 = read.csv("Road_condition.csv")
road_c2 = road_c2[1:36,2:98]
road_c2 = road_c2 %>% arrange(State..UT)
road_c2 = road_c2[-c(9,6,10,8),]
View(road_c2)
sum(is.na(road_c2))
## [1] 0
dim(road_c2)
## [1] 32 97
rownames(road_c2) <- road_c2$State..UT</pre>
states = seq(1:32)
road_c2$Total_2014 = 0
road_c2\$Total_2016 = 0
tot_acc_14 = seq(2,73,3)
tot_acc_16 = seq(74,97,3)
tot_kil_14 = seq(3,73,3)
tot_kil_16 = seq(75,97,3)
```

```
tot_inj_14 = seq(4,73,3)
tot_inj_16 = seq(76,97,3)
for (i in states)
{
   road_c2$Total_2014_Acc[i] = sum(road_c2[i,tot_acc_14])
   road_c2$Total_2016_Acc[i] = sum(road_c2[i,tot_acc_16])
   road_c2$Total_2014_Kil[i] = sum(road_c2[i,tot_kil_14])
   road_c2$Total_2016_Kil[i] = sum(road_c2[i,tot_kil_16])
   road_c2$Total_2014_Inj[i] = sum(road_c2[i,tot_inj_14])
   road_c2$Total_2016_Inj[i] = sum(road_c2[i,tot_inj_16])
}

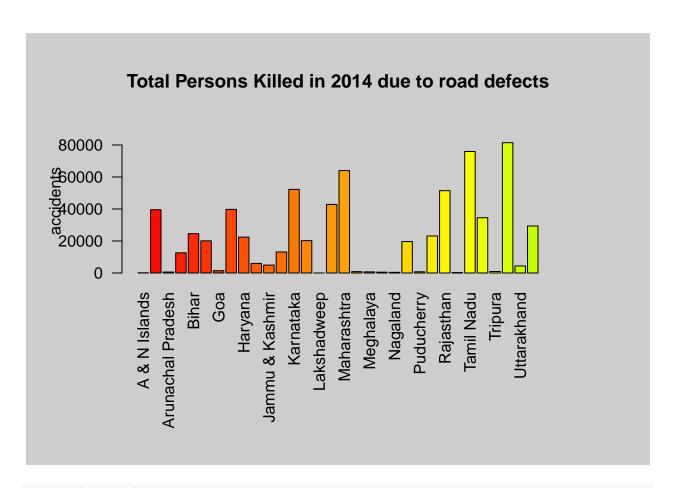
par(mar = c(10,5,5,5), bg="#CDCDCD")
barplot(road_c2$Total_2014_Acc, main = "Total accidents in 2014 due to road defects" ,ylab="accidents",
```



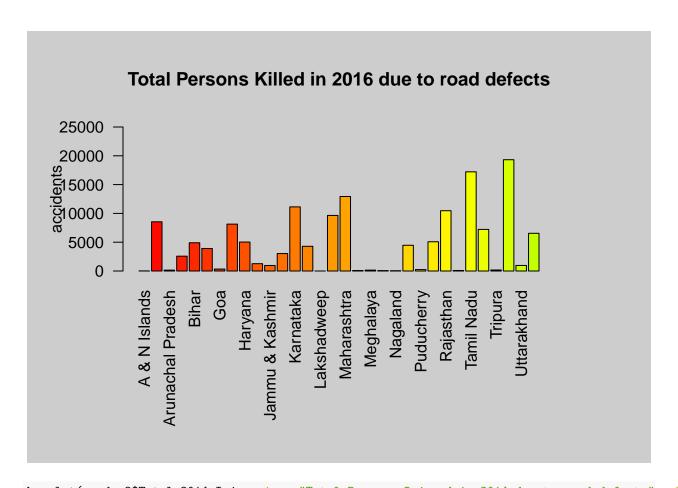
barplot(road\_c2\$Total\_2016\_Acc, main = "Total accidents in 2016 due to road defects" ,ylab="accidents",



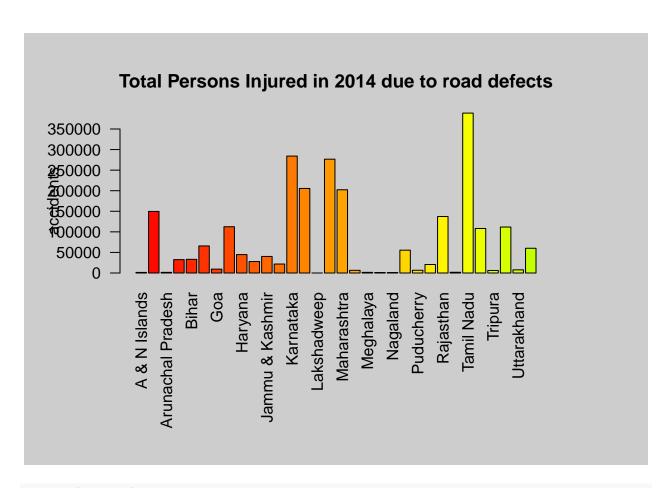
barplot(road\_c2\$Total\_2014\_Kil, main = "Total Persons Killed in 2014 due to road defects" ,ylab="accide"



barplot(road\_c2\$Total\_2016\_Kil, main = "Total Persons Killed in 2016 due to road defects", ylab="accide.



barplot(road\_c2\$Total\_2014\_Inj, main = "Total Persons Injured in 2014 due to road defects" ,ylab="accid



barplot(road\_c2\$Total\_2016\_Inj, main = "Total Persons Injured in 2016 due to road defects", ylab="accid

